Performance Par Excellence





Industrial Gear Box Oils









CONTENTS

Industrial Gear Box Oil Premium	
Divyol Gear Oil XD 150	4-9
Divyol Gear Oil XD 220	10 – 15
Divyol Gear Oil XD 320	16 – 21
Divyol Gear Oil XD 460	22 – 27
Divyol Gear Oil XF 150	28 – 33
Divyol Gear Oil XF 220	34 – 39
Divyol Gear Oil XF 320	40 – 45
Divyol Gear Oil XF 460	46 – 51
Divyol Gear Oil XF 680	52 – 57
Divyol Gear Oil XS 150	58 – 63
Divyol Gear Oil XS 220	64 – 69
Divyol Gear Oil XS 320	70 – 75
Divyol Gear Oil XS 460	76 – 81
Divyol Gear Oil XS 680	82 – 87









CONTENTS

Industrial Gear Box Oils	
Divyol Gear Oil SP 68	88 – 93
Divyol Gear Oil SP 100	94 – 99
Divyol Gear Oil SP 150	100 – 105
Divyol Gear Oil SP 220	106 – 111
Divyol Gear Oil SP 320	112 – 117
Divyol Gear Oil SP 460	118 – 123
Divyol Gear Oil SP 680	124 – 129
Divyol Gear Oil SPL 68	130 – 135
Divyol Gear Oil SPL 100	136 – 141
Divyol Gear Oil SPL 150	142 – 147
Divyol Gear Oil SPL 220	148 – 153
Divyol Gear Oil SPL 320	154 – 159
Divyol Gear Oil SPL 460	160 – 165
Divyol Gear Oil SPL 680	166 – 171
Divyol Gear Oil ZN 68	172 – 177
Divyol Gear Oil ZN 100	178 – 183
Divyol Gear Oil ZN 150	184 – 189
Divyol Gear Oil ZN 220	190 – 195
Divyol Gear Oil ZN 320	196 – 201
Divyol Gear Oil ZN 460	202 – 207







DIVYOL GEAR OIL XD 150

Section 1: Identification of the Substance / Mixtu	ire		
1.1 Product identifier			
Product name	Divyol Gear Oil XD 150		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ıre		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	up	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water)	Not available
Decomposition temperature	No data
Auto-ignition temperature	>300 °C
Kinematic viscosity at 40 °C (104 °F)	150 cSt (ASTM D 445) (Typical Value)
Explosive properties	No data
Oxidising properties	No data
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %
Section 10: Stability and Reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.
CECTION 11. Taxical arisal Information	

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
<u> </u>		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
	Domestic Substances List (DSL) – Yes
Canada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





LC 50

LD 50

PBT



Europo	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
·	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Median lethal concentration.

Median lethal dose.

Disclaimer: Information contained in this material data sheet is believed to be reliable, but no representation, guarantee or warranties of any kind made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information content in the material data sheet is relevant to the product manufactured / handled or sold by, as the case may be. GANDHAR makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601		
Email	info@gandharoil.com	







DIVYOL GEAR OIL XD 220

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XD 220		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses	<u>'</u>		
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	nts		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters		oving all persons from the vicinity of the incident if there is a fire. No personal risk or without suitable training.	
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and em	ergency procedures	
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	up	
Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of Identified Uses in Section 1 should be seen	ulted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).	
<u> </u>		
Occupational exposure limits	Distillator with my of hodge and any	
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the produ and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptablevels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
рН	Not applicable	
Pour point	<-6°C (ASTM D 97)	
Flash point	> 230 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available Not available	
Flammability limits in air (lower), % by volume	Not available Not available	
Flammability limits in air (upper), % by volume	Not available Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxical advantage and the formation		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	_	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Disclaimer: Information contained in this material data sheet is believed to be reliable, but no representation, guarantee or warranties of any kind made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information content in the material data sheet is relevant to the product manufactured / handled or sold by, as the case may be. GANDHAR makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	/ Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	nail info@gandharoil.com	







DIVYOL GEAR OIL XD 320

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XD 320		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and em	ergency procedures	
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	up	
Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 240 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	320 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Toul-all oil-all of amounts on		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated field y paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion Skin No known significant effects or critical hazards. Respiratory Sensation Skin Skin

Respiratory		
Sensation		
Skin	No language in the first of a state of a sta	
Respiratory	No known significant effects or critical hazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 $\%$ are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure	Not classified	
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
	No. 201	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminate or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
6 1	Domestic Substances List (DSL) – Yes
Canada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes
Europe	European List of Notified Chemical Substances (ELINCS) – No
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes
Korea	Existing Chemicals List (ECL) – Yes
New Zealand	New Zealand Inventory – Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes
· · · · · · · · · · · · · · · · · · ·	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).
Section 16: Other Information	
Revision comments	
Legend to abbreviations	
ADR	European agreement concerning the international carriage of dangerous good by road.
RID	Regulations agreement concerning the international carriage of dangerous good by rail.
IMDG Code	International Maritime Dangerous Goods Code.
ICAO	International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].
SCBA	Self-Contained Breathing Apparatus.
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].
LC 50	Median lethal concentration.
LD 50	Median lethal dose.
PBT	Persistent, Bio accumulative and Toxic.

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Disclaimer: Information contained in this material data sheet is believed to be reliable, but no representation, guarantee or warranties of any kind made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information content in the material data sheet is relevant to the product manufactured / handled or sold by, as the case may be. GANDHAR makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XD 460

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XD 460		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ıre		
Hazards from the substance or mixture	Flammable liquids in pressurised of flammable vapour cloud.	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly	
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and em	ergency procedures	
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	up	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	460 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11, Toyicalogical Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Carcinogenicity

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated field y paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards.



regarded as a carcinogen.

The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be





Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name	NO KNOWN SIGNIFICANT Effects of Critical Hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organism Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminat or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

· · ·				
	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes
Europe	European List of Notified Chemical Substances (ELINCS) – No
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes
Korea	Existing Chemicals List (ECL) – Yes
New Zealand	New Zealand Inventory – Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).
Section 16: Other Information	
Revision comments	
Legend to abbreviations	
ADR	European agreement concerning the international carriage of dangerous good by road.
RID	Regulations agreement concerning the international carriage of dangerous good by rail.
IMDG Code	International Maritime Dangerous Goods Code.
ICAO	International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].
SCBA	Self-Contained Breathing Apparatus.
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].
LC 50	Median lethal concentration.
LD 50	Median lethal dose.
PBT	Persistent, Bio accumulative and Toxic.

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Disclaimer: Information contained in this material data sheet is believed to be reliable, but no representation, guarantee or warranties of any kind made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information content in the material data sheet is relevant to the product manufactured / handled or sold by, as the case may be. GANDHAR makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XF 150

Section 1: Identification of the Substance / Mixtur	e		
1.1 Product identifier			
Product name	Divyol Gear Oil XF 150		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredien	ts		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtur	re		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protect	ion
The list of Identified Uses in Section 1 should be consul-	ted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point Pour point	<-6°C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	150 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxical arisal Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion Skin No known significant effects or critical hazards. Respiratory No known significant effects or critical hazards.

Respiratory		
Sensation		
Skin	No live or an element of the state of writing the provide	
Respiratory	No known significant effects or critical hazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure		
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	_
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	nventory Inventory name	
Australia Australian Inventory of Chemical Substances (AICS) – Yes		
Canada	Domestic Substances List (DSL) – Yes	
	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	





PBT



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Disclaimer: Information contained in this material data sheet is believed to be reliable, but no representation, guarantee or warranties of any kind made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the information content in the material data sheet is relevant to the product manufactured / handled or sold by, as the case may be. GANDHAR makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XF 220

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XF 220		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures		,	
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area i available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protection	ction
The list of Identified Uses in Section 1 should be consu	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-9 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C
Density Johnson (100)	5.55







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11, Toyicalogical Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity	No known significant offects or critical bazards	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminate or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601		
Email	info@gandharoil.com	







DIVYOL GEAR OIL XF 320

Section 1: Identification of the Substance / Mixtu	re			
1.1 Product identifier				
Product name	Divyol Gear Oil XF 320			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	<u> </u>			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures				
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ire			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be seen	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).		
<u> </u>			
Occupational exposure limits	Distillation with our of house contract		
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures	, , ,		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
Н	Not applicable		
Pour point	<-9 °C (ASTM D 97)		
Flash point	> 230 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available Not available		
Flammability limits in air (lower), % by volume	Not available Not available		
Flammability limits in air (upper), % by volume	Not available Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	320 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxical arisal Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	No known significant offects or suitical barands	
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminat or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
Callada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





LC 50

LD 50

PBT



European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
European List of Notified Chemical Substances (ELINCS) – No		
Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Existing Chemicals List (ECL) – Yes		
New Zealand Inventory – Yes		
Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
Toxic Substances Control Act (TSCA) Inventory – Yes		
omply with the inventory requirements administered by the governing country(s) oduct are not listed or exempt from listing on the inventory administered by the governing country(s).		
European agreement concerning the international carriage of dangerous good by road.		
Regulations agreement concerning the international carriage of dangerous good by rail.		
International Maritime Dangerous Goods Code.		
International Civil Aviation Organization.		
International Air Transport Association.		
Globally Harmonized System of Classification and Labeling of Chemicals.		
Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
Self-Contained Breathing Apparatus.		
Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Median lethal concentration.

Median lethal dose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	fo Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XF 460

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XF 460		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures		,	
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures				
6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.			
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.			
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.			
6.3 Methods and material for containment and cleaning	up			
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.			
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.			
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.			
Section 7: Handling and Storage				
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.			
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.			
7.3 Specific end use(s) – Recommendations	Not available			







Section 8: Exposure Controls / Personal Protect	tion		
The list of Identified Uses in Section 1 should be consu	lted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters			
Occupational exposure limits			
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
Н	Not applicable		
Pour point	<-9 °C (ASTM D 97)		
Flash point	> 250 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available		
Flammability limits in air (lower), % by volume	Not available		
Flammability limits in air (upper), % by volume	Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		
Deligity columnity (162)	U.OO IIIAX AL TO		







Solubility (water)	Insoluble in water		
Partition coefficient (n-octanol/water)	Not available		
Decomposition temperature	No data		
Auto-ignition temperature	>300 °C		
Kinematic viscosity at 40 °C (104 °F)	460 cSt (ASTM D 445) (Typical Value)		
Explosive properties	No data		
Oxidising properties	No data		
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %		
Section 10: Stability and Reactivity			
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	Stable under normal conditions		
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.		
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.		
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and		
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.		
CECTION 11. Taxical arisal Information			

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Skin contact

Potential chronic health effects

Ingestion

General

Carcinogenicity

Product / ingredient name	Result	Species	Dose	Exposure
5	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

regarded as a carcinogen.

The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be

May be fatal if swallowed and enters airways.







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects	Net availelle	
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	loja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XF 680

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil XF 680		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures		,	
Inhalation exposure	Remove to fresh air & provide oxyg	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	up	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protect	ion	
The list of Identified Uses in Section 1 should be consul-	ted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters		
Occupational exposure limits		
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point Pour point	<-3 °C (ASTM D 97)	
Flash point	> 240 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Flammability limits in air (lower), % by volume	Not available	
Flammability limits in air (upper), % by volume	Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	680 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxiaala siaal lafa waxatian		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion

Skin		
Eye	No known significant effects or critical hazards.	
Respiratory		
Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	NO KNOWN SIGNIFICANT EFFECTS OF CITICAL HAZARDS.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 $\%$ are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure	Not classified	
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
<u> </u>	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name	-	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contamination waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XS 150

Section 1: Identification of the Substance / Mixture			
1.1 Product identifier			
Product name	Divyol Gear Oil XS 150		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredien	ts		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxyg	gen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtur	e		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	ир	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protect	ion	
The list of Identified Uses in Section 1 should be consult	ted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters		
Occupational exposure limits		
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point Pour point	<-45 °C (ASTM D 97)	
Flash point	> 240 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Flammability limits in air (lower), % by volume	Not available	
Flammability limits in air (upper), % by volume	Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	150 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Toying longing Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Skin

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
	LD 50 Oral	Rat	>15000 mg/kg	-

No known significant effects or critical hazards. Eye Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity – single exposure

Not classified	
Not available	
Eye contact may cause redness and transient pain.	
Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
No known significant effects or critical hazards.	
May be fatal if swallowed and enters airways.	
No known significant effects or critical hazards.	
The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name	No Known significant effects of Chilical Hazarus.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





LD 50

PBT



European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
European List of Notified Chemical Substances (ELINCS) – No	
Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Existing Chemicals List (ECL) – Yes	
New Zealand Inventory – Yes	
Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
Toxic Substances Control Act (TSCA) Inventory – Yes	
uply with the inventory requirements administered by the governing country(s) duct are not listed or exempt from listing on the inventory administered by the governing country(s).	
European agreement concerning the international carriage of dangerous good by road.	
Regulations agreement concerning the international carriage of dangerous good by rail.	
International Maritime Dangerous Goods Code.	
International Civil Aviation Organization.	
International Air Transport Association.	
Globally Harmonized System of Classification and Labeling of Chemicals.	
Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
Self-Contained Breathing Apparatus.	
Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
Median lethal concentration.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Median lethal dose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	loja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XS 220

Section 1: Identification of the Substance / Mixtu	re			
1.1 Product identifier				
Product name	Divyol Gear Oil XS 220			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	<u> </u>			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures				
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ıre			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures				
6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.			
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.			
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.			
6.3 Methods and material for containment and cleaning up				
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.			
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.			
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.			
Section 7: Handling and Storage				
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.			
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.			
7.3 Specific end use(s) – Recommendations	Not available			







The list of identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -39 °C (ASTM D 97)
Flash point	> 240 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxical arisal Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paranine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosionSkinA Management of the product or any components present greater than 0.1 % areSkinNo known significant effects or critical hazards.RespiratoryNo known significant effects or critical hazards.MutagenicityNo data available to indicate product or any components present greater than 0.1 % are

Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	No known significant effects of critical nazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Mar de d'End	
Specific target organ toxicity – repeated exposure	Not classified	
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
Callada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





LD 50

PBT



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Median lethal dose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	loja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XS 320

1.1 Product identifier		
Product name	Divyol Gear Oil XS 320	
Product description	Industrial Gear Box Oil	
Product type	Industrial Oil	
MARPOL Annex-1	****	
1.2 Identified uses		
Distribution of substance	Industrial	
Formulation & (re)packing of substance & mixtures	Industrial	
Manufacture of substance	Industrial	
Functional fluids	Industrial	
Section 2: Hazard Identification		
4-Extreme	Health	1
3-High	Flammability	1
2-Moderate	Reactivity	0
1-Slight	Special	-
Section 3: Compostion / Information on Ingredi	ents	
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.	
Section 4: First Aid Measures		
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.	
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.	
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.	
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area available before entry into confined spaces.	
Section 5: Fire Fighting Measures		
5.1 Extinguishing media		
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.	
5.2 Special hazards arising from the substance or mix	ture	
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.	
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.	
5.3 Advice for firefighters		
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	ир		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be sens	Ition Ulted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).	
<u> </u>		
Occupational exposure limits	Distillator with my of harden and any	
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point	<-33 °C (ASTM D 97)	
Flash point	> 250 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available Not available	
Flammability limits in air (lower), % by volume	Not available Not available	
Flammability limits in air (upper), % by volume	Not available Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	320 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Toyisalagisal Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion Skin

Skiii	No known significant effects or critical hazards.	
Eye		
Respiratory		
Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	NO KHOWIT SIGNIFICANT EFFECTS OF CHILCAI HAZARUS.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 $\%$ are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure	NOT Classified	
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity	No leaves simile and offices as a misical barrarda	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
· · · · · · · · · · · · · · · · · · ·	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Taloja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	ne No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XS 460

Section 1: Identification of the Substance / Mixture		
1.1 Product identifier		
Product name	Divyol Gear Oil XS 460	
Product description	Industrial Gear Box Oil	
Product type	Industrial Oil	
MARPOL Annex-1	***	
1.2 Identified uses	'	
Distribution of substance	Industrial	
Formulation & (re)packing of substance & mixtures	Industrial	
Manufacture of substance	Industrial	
Functional fluids	Industrial	
Section 2: Hazard Identification	'	
4-Extreme	Health	1
3-High	Flammability	1
2-Moderate	Reactivity	0
1-Slight	Special	-
Section 3: Compostion / Information on Ingredie	nts	
Product / Ingredient name	CAS No.: Not applicable for blende Distillates (Petroleum) mixture of h	
Section 4: First Aid Measures	·	
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.	
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.	
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.	
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.	
Section 5: Fire Fighting Measures		
5.1 Extinguishing media		
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.	
5.2 Special hazards arising from the substance or mixtu	re	
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.	
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.	
5.3 Advice for firefighters		
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protection	ction
The list of Identified Uses in Section 1 should be consu	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-27 °C (ASTM D 97)
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	460 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Textes Is also I left markets		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Where possible (e.g. in the absence of relevant contamination), recycling of used substance feasible and recommended. This substance can be burned or incinerated, subject to nation authorisations, relevant contamination limits, safety regulations and air quality legislation. or waste substance (not directly recyclable): Disposal can be carried out directly, or by deliving qualified waste handlers. National legislation may identify a specific organisation, and/or procomposition limits and methods for recovery or disposal		
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

, ,				
	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
Canaua	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Taloja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL XS 680

Section 1: Identification of the Substance / Mixture				
1.1 Product identifier				
Product name	Divyol Gear Oil XS 680			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses	'			
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification	'			
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	'			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	ир	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of identified Uses in Section 1 should be const	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-27 °C (ASTM D 97)
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	680 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Toxical agical Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name	NO KHOWIT SIGNIFICATIVE CITY OF CHILCAI HAZZAIUS.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601		
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 68

Section 1: Identification of the Substance / Mixtu	ire			
1.1 Product identifier				
Product name	Divyol Gear Oil SP 68			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	<u> </u>			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures		,		
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ıre			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protect	ion		
The list of Identified Uses in Section 1 should be consult	ted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters			
Occupational exposure limits			
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
Н	Not applicable		
Pour point Pour point	<-3 °C (ASTM D 97)		
Flash point	>210°C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available		
Flammability limits in air (lower), % by volume	Not available		
Flammability limits in air (upper), % by volume	Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	68 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 44 T 1 L 1 L C 41		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion

No known significant effects or critical hazards.	
No known significant effects or critical hazards.	
NO KNOWN SIGNIFICANT EFFECTS OF CHILCAI HAZARUS.	
No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
The base oil(s) in this product is based on an severely hydrotreated distillate.	
The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Not classified	
Not available	
Eye contact may cause redness and transient pain.	
Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
No known significant effects or critical hazards.	
May be fatal if swallowed and enters airways.	
No known significant effects or critical hazards.	
The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name	NO KITOWIT SIGNIFICATIVE CONTINUES OF CITICAL MAZZAIUS.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminat or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	ergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 100

Section 1: Identification of the Substance / Mixture		
1.1 Product identifier		
Product name	Divyol Gear Oil SP 100	
Product description	Industrial Gear Box Oil	
Product type	Industrial Oil	
MARPOL Annex-1	****	
1.2 Identified uses		
Distribution of substance	Industrial	
Formulation & (re)packing of substance & mixtures	Industrial	
Manufacture of substance	Industrial	
Functional fluids	Industrial	
Section 2: Hazard Identification		
4-Extreme	Health	1
3-High	Flammability	1
2-Moderate	Reactivity	0
1-Slight	Special	-
Section 3: Compostion / Information on Ingredier	nts	
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.	
Section 4: First Aid Measures		
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.	
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.	
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.	
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.	
Section 5: Fire Fighting Measures		
5.1 Extinguishing media		
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.	
5.2 Special hazards arising from the substance or mixtu	re	
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.	
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.	
5.3 Advice for firefighters		
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -3 °C (ASTM D 97)
Flash point	> 210 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	100 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Textests with the second on		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity	No known significant affects or critical hazards	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contamin or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Luiope	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 150

Section 1: Identification of the Substance / Mixture				
1.1 Product identifier				
Product name	Divyol Gear Oil SP 150			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification	1			
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	<u> </u>			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures				
6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.			
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.			
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.			
6.3 Methods and material for containment and cleaning	ир			
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.			
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.			
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.			
Section 7: Handling and Storage				
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.			
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.			
7.3 Specific end use(s) – Recommendations	Not available			







Section 8: Exposure Controls / Personal Protec			
	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters			
Occupational exposure limits	Profile to the first		
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures	, , , , , , , , , , , , , , , , ,		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptabl levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
pH	Not applicable		
Pour point	<-6°C (ASTM D 97)		
Flash point	> 230 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available		
Flammability limits in air (lower), % by volume	Not available		
Flammability limits in air (upper), % by volume	Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water		
Partition coefficient (n-octanol/water)	Not available		
Decomposition temperature	No data		
Auto-ignition temperature	>300 °C		
Kinematic viscosity at 40 °C (104 °F)	150 cSt (ASTM D 445) (Typical Value)		
Explosive properties	No data		
Oxidising properties	No data		
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %		
Section 10: Stability and Reactivity			
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	Stable under normal conditions		
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.		
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.		
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and		
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.		
CECTION AS TO A LOCAL AND			

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity			
<u> </u>	No known significant effects or critical hazards.		
Teratogenicity			
Product / ingredient name			
Fertility effects			
Other information Specific hazard	Not available		
Section 12: Ecological Information			
12.1 Toxicity	Not expected to be harmful to aquatic organisms.		
12.2 Persistence and degradability	Not inherently biodegradable.		
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.		
12.4 Mobility in soil	Not considered mobile.		
12.5 Results of PBT & vPvB assessment	Not applicable		
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.		
Section 13: Disposal Considerations			
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-speci information provided in the Exposure Scenario(s).			
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminate or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal		
Hazardous waste	Yes		
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.		
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.		
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Callada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	





PBT



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 220

Section 1: Identification of the Substance / Mixture				
1.1 Product identifier				
Product name	Divyol Gear Oil SP 220			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses	'			
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification	'			
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	·			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures	
6.1 Personal precautions, protective equipment and em	ergency procedures
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.
6.3 Methods and material for containment and cleaning	up
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.
Section 7: Handling and Storage	
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.
7.3 Specific end use(s) – Recommendations	Not available







Section 8: Exposure Controls / Personal Protection	ction
The list of Identified Uses in Section 1 should be consu	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C
Density Solubility (163)	0.00 max at 15 C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 44 T ' I ' II C '		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity	No beauty size of a second off and a second of a secon	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	/ Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 320

Section 1: Identification of the Substance / Mixtu	ire			
1.1 Product identifier				
Product name	Divyol Gear Oil SP 320			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	·			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures				
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ire			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and em	ergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning up			
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protec	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).		
<u> </u>			
Occupational exposure limits	Distillator with my of harden and any		
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures	,		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
рН	Not applicable		
Pour point	<-6 °C (ASTM D 97)		
Flash point	> 240 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available		
Flammability limits in air (lower), % by volume	Not available		
Flammability limits in air (upper), % by volume	Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	320 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Toyicalogical Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity



regarded as a carcinogen.





Mutagenicity		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	_	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





PBT



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Taloja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	o. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 460

Section 1: Identification of the Substance / Mixtu	Section 1: Identification of the Substance / Mixture		
1.1 Product identifier			
Product name	Divyol Gear Oil SP 460		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	****		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredier			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxyg	gen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu		·	
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters	•		
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and em	ergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protec	
	lted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptabl levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
pH	Not applicable
Pour point	<-9 °C (ASTM D 97)
Flash point	> 245 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available Not available
Flammability limits in air (lower), % by volume	Not available Not available
Flammability limits in air (lower), % by volume	Not available Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	460 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₄ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11: Toxicalogical Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion

No known significant effects or critical hazards.		
No known significant effects or critical hazards.		
NO KNOWN SIGNIFICANT EFFECTS OF CHILCAI HAZARUS.		
No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.		
The base oil(s) in this product is based on an severely hydrotreated distillate.		
The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.		
Not classified		
Not classified		
Aspiration hazard – Category 1		
Not available		
Eye contact may cause redness and transient pain.		
Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.		
No known significant effects or critical hazards.		
May be fatal if swallowed and enters airways.		
No known significant effects or critical hazards.		
The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.		







Mutagenicity		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
Canada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





LD 50

PBT



Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
·	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

Median lethal dose.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	o. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SP 680

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil SP 680		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	ир	
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.	
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protect	tion
The list of Identified Uses in Section 1 should be consu	lted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
Н	Not applicable
Pour point	<-9 °C (ASTM D 97)
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C
Deligity columnity (162)	U.OO IIIAX AL TO







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	680 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Toying language Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	No known significant offects or critical barands	
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
6 1	Domestic Substances List (DSL) – Yes
Canada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





PBT



European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
European List of Notified Chemical Substances (ELINCS) – No	
Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Existing Chemicals List (ECL) – Yes	
New Zealand Inventory – Yes	
Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
Toxic Substances Control Act (TSCA) Inventory – Yes	
ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
European agreement concerning the international carriage of dangerous good by road.	
Regulations agreement concerning the international carriage of dangerous good by rail.	
International Maritime Dangerous Goods Code.	
International Civil Aviation Organization.	
International Air Transport Association.	
Globally Harmonized System of Classification and Labeling of Chemicals.	
Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
Self-Contained Breathing Apparatus.	
Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
Median lethal concentration.	
Median lethal dose.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	ergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 68

Section 1: Identification of the Substance / Mixture			
1.1 Product identifier			
Product name	Divyol Gear Oil SPL 68		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification	-		
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	nts		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures	<u>'</u>		
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	re		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protec	
	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	District the state of the state
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-3 °C (ASTM D 97)
Flash point	>210 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water)	Not available
Decomposition temperature	No data
Auto-ignition temperature	>300 °C
Kinematic viscosity at 40 °C (104 °F)	95 cSt (ASTM D 445) (Typical Value)
Explosive properties	No data
Oxidising properties	No data
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %
Section 10: Stability and Reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₃ S, SO _v (sulphur oxides) or sulphuric acid and
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.
CECTION 44 T 1 L 1 L C 11	

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects	Not available	
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes
Europe	European List of Notified Chemical Substances (ELINCS) – No
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes
Korea	Existing Chemicals List (ECL) – Yes
New Zealand	New Zealand Inventory – Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).
Section 16: Other Information	
Revision comments	
Legend to abbreviations	
ADR	European agreement concerning the international carriage of dangerous good by road.
RID	Regulations agreement concerning the international carriage of dangerous good by rail.
IMDG Code	International Maritime Dangerous Goods Code.
ICAO	International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].
SCBA	Self-Contained Breathing Apparatus.
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].
LC 50	Median lethal concentration.
LD 50	Median lethal dose.
PBT	Persistent, Bio accumulative and Toxic.

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	ergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 100

Section 1: Identification of the Substance / Mixture		
1.1 Product identifier		
Product name	Divyol Gear Oil SPL 100	
Product description	Industrial Gear Box Oil	
Product type	Industrial Oil	
MARPOL Annex-1	***	
1.2 Identified uses		
Distribution of substance	Industrial	
Formulation & (re)packing of substance & mixtures	Industrial	
Manufacture of substance	Industrial	
Functional fluids	Industrial	
Section 2: Hazard Identification		
4-Extreme	Health	1
3-High	Flammability	1
2-Moderate	Reactivity	0
1-Slight	Special	-
Section 3: Compostion / Information on Ingredie	nts	
Product / Ingredient name	CAS No.: Not applicable for blende Distillates (Petroleum) mixture of h	
Section 4: First Aid Measures	'	
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.	
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.	
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.	
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.	
Section 5: Fire Fighting Measures		
5.1 Extinguishing media		
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.	
5.2 Special hazards arising from the substance or mixtu	re	
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.	
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO _x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.	
5.3 Advice for firefighters	•	
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	ир	
Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protection		
The list of Identified Uses in Section 1 should be consult	ted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters		
Occupational exposure limits		
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point Pour point	<-3 °C (ASTM D 97)	
Flash point	>210°C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Flammability limits in air (lower), % by volume	Not available	
Flammability limits in air (upper), % by volume	Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	107 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION AS THE SECOND S		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name	NO KHOWIT SIGNIFICATIVE CITY OF CHICKEN HAZZAIUS.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminate or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 150

Section 1: Identification of the Substance / Mixture			
1.1 Product identifier			
Product name	Divyol Gear Oil SPL 150		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	****		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification	ilidustriai		
	Haalah	1	
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredier			
Product / Ingredient name	CAS No.: Not applicable for blende Distillates (Petroleum) mixture of h		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	re		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning		
Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







Section 8: Exposure Controls / Personal Protection	ction
The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s). 8.1 Control parameters	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	154 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 44 T ' I ' II C '		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Carcinogenicity

Skin

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards.



regarded as a carcinogen.

The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be





Mutagenicity		
Teratogenicity	No known significant offects or exitical hazards	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminate or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	_	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
	Domestic Substances List (DSL) – Yes
Canada	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes





PBT



Europo	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 220

Section 1: Identification of the Substance / Mixtu	re			
1.1 Product identifier				
Product name	Divyol Gear Oil SPL 220			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	<u> </u>			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures				
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ire			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	ир		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 44 T ' I ' II C '		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion Skin

JKIII	No known significant effects or critical hazards.	
Eye		
Respiratory		
Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	No known significant effects of critical hazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure	Not classified	
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
<u> </u>		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name	-	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	hone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	ail info@gandharoil.com	







DIVYOL GEAR OIL SPL 320

Section 1: Identification of the Substance / Mixture			
1.1 Product identifier			
Product name	Divyol Gear Oil SPL 320		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ıre		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures		
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.	
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.	
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.	
6.3 Methods and material for containment and cleaning	ир	
Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.	
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.	
Section 7: Handling and Storage		
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.	
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.	
7.3 Specific end use(s) – Recommendations	Not available	







The list of Identified Uses in Section 1 should be sense	ulted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).	
<u> </u>		
Occupational exposure limits	Distillation with the office of the second o	
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures	, , , , , , , , , , , , , , , , , , , ,	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptabl levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Brownish	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point	<-6°C (ASTM D 97)	
Flash point	> 235 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available Not available	
Flammability limits in air (lower), % by volume	Not available	
Flammability limits in air (upper), % by volume	Not available Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	340 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Toyical anical Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
<u> </u>		
Teratogenicity	No known significant effects or critical hazards.	
Product / ingredient name	-	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
6 1	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 460

Section 1: Identification of the Substance / Mixtur	re			
1.1 Product identifier				
Product name	Divyol Gear Oil SPL 460			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	****			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredier	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures				
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	ир		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be seen	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).		
<u> </u>			
Occupational exposure limits	Distillation with our of houles and are		
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m^3 8 hours. Form: mist and fume STEL: 3 mg/m^3 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m^3 8 hours. Form: mist and fume STEL: 3 mg/m^3 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
Н	Not applicable		
Pour point	<-3 °C (ASTM D 97)		
Flash point	> 245 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available Not available		
Flammability limits in air (lower), % by volume	Not available Not available		
Flammability limits in air (upper), % by volume	Not available Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	450 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products unidentified organic and inorganic compounds.		
CCCTION 11. Taxical arisal Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated field y paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion Skin

Eye	No known significant effects or critical hazards.	
Respiratory		
Sensation		
Skin	No. law company of contraction of the contraction o	
Respiratory	No known significant effects or critical hazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure		
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity	No known significant offacts or critical hazards	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminat or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
· · · · · · · · · · · · · · · · · · ·	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL SPL 680

Section 1: Identification of the Substance / Mixtu	re		
1.1 Product identifier			
Product name	Divyol Gear Oil SPL 680		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	_	
Section 3: Compostion / Information on Ingredie	<u> </u>	-	
Product / Ingredient name	CAS No.: Not applicable for blende		
Continue A. First Aid Managemen	Distillates (Petroleum) mixture of h	nydro-treated nydrocarbons.	
Section 4: First Aid Measures			
Inhalation exposure	***	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	ire		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -3 °C (ASTM D 97)
Flash point	> 220 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	675 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Toyical axisal Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	No luca una circuita contra effecto an autórica la consula	
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contamir or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	_	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL ZN 68

Section 1: Identification of the Substance / Mixture				
1.1 Product identifier				
Product name	Divyol Gear Oil ZN 68			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses	-			
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification	'			
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	'			
Inhalation exposure	Remove to fresh air & provide oxyg	gen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures	·			
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures				
6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.			
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.			
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.			
6.3 Methods and material for containment and cleaning	ир			
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.			
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.			
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.			
Section 7: Handling and Storage				
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.			
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.			
7.3 Specific end use(s) – Recommendations	Not available			







Section 8: Exposure Controls / Personal Protect	ion	
The list of Identified Uses in Section 1 should be consult	ted for any available use-specific information provided in the Exposure Scenario(s).	
8.1 Control parameters		
Occupational exposure limits		
Product / Ingredient name	Distillates, mixture of hydrocarbons	
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measure and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.	
Individual protection measures		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.	
Eye / face protection	Recommended: Safety glasses with side shields.	
Skin protection		
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.	
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Section 9: Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid	
Colour	Pale Yellow	
Odor	Petroleum odor	
Odour threshold	Not available	
Н	Not applicable	
Pour point Pour point	<-6°C (ASTM D 97)	
Flash point	>210°C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Flammability limits in air (lower), % by volume	Not available	
Flammability limits in air (upper), % by volume	Not available	
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)	
Density Solubility (ies)	0.88 max at 15 °C	







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	68 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Testinal and all lands are stated		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	No known significant effects or critical hazards.		
Teratogenicity			
Product / ingredient name			
Fertility effects			
Other information Specific hazard	Not available		
Section 12: Ecological Information			
12.1 Toxicity	Not expected to be harmful to aquatic organisms.		
12.2 Persistence and degradability	Not inherently biodegradable.		
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.		
12.4 Mobility in soil	Not considered mobile.		
12.5 Results of PBT & vPvB assessment	Not applicable		
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.		
Section 13: Disposal Considerations			
The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).			
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminat or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal		
Hazardous waste	Yes		
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.		
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.		
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Callada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	





PBT



Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
·	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		

Regulation (EC) no 1907/2006, Annex II as Amended by Commission Regulation (EU) 2015/830

Persistent, Bio accumulative and Toxic.

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







DIVYOL GEAR OIL ZN 100

Section 1: Identification of the Substance / Mixtu	ire		
1.1 Product identifier			
Product name	Divyol Gear Oil ZN 100		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	***		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredie	<u> </u>		
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.		
Section 4: First Aid Measures		,	
Inhalation exposure	Remove to fresh air & provide oxyg	gen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixto	ıre		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures	
6.1 Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.
6.3 Methods and material for containment and cleaning	up
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.
Section 7: Handling and Storage	
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.
7.3 Specific end use(s) – Recommendations	Not available







Section 8: Exposure Controls / Personal Protec	
	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	Profile to the first
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	,
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptabl levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-6°C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	100 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Tavidala visal Information		

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion

Skin	No known significant effects or critical hazards.	
Eye		
Respiratory		
Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	NO KHOWH SIGNIFICANT EMECTS OF CHICCAI HAZARUS.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 % are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure		
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
Teratogenicity	No live or the state of a state of a state of a state of a state of the state of th	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional Information	-	-	-	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Ediope	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
· · · · · · · · · · · · · · · · · · ·	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja PlantPlot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.		
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No. Phone: +91-22-40635600 • Fax: +91-22-40635601		
Email	info@gandharoil.com	







Section 1: Identification of the Substance / Mixture			
1.1 Product identifier			
Product name	Divyol Gear Oil ZN 150		
Product description	Industrial Gear Box Oil		
Product type	Industrial Oil		
MARPOL Annex-1	****		
1.2 Identified uses			
Distribution of substance	Industrial		
Formulation & (re)packing of substance & mixtures	Industrial		
Manufacture of substance	Industrial		
Functional fluids	Industrial		
Section 2: Hazard Identification			
4-Extreme	Health	1	
3-High	Flammability	1	
2-Moderate	Reactivity	0	
1-Slight	Special	-	
Section 3: Compostion / Information on Ingredier	nts		
Product / Ingredient name	CAS No.: Not applicable for blende Distillates (Petroleum) mixture of h		
Section 4: First Aid Measures			
Inhalation exposure	Remove to fresh air & provide oxyg	gen, if breathing is difficult. Contact physician	
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.		
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.		
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.		
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.		
Section 5: Fire Fighting Measures			
5.1 Extinguishing media			
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.		
5.2 Special hazards arising from the substance or mixtu	re		
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.		
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.		
5.3 Advice for firefighters			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.		







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning up			
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







Section 8: Exposure Controls / Personal Protection	ction
The list of Identified Uses in Section 1 should be consu	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	<-6 °C (ASTM D 97)
Flash point	> 230 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C
Density Joinbinty (163)	S. S. S. MARKET S. C.







Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water)	Not available
Decomposition temperature	No data
Auto-ignition temperature	>300 °C
Kinematic viscosity at 40 °C (104 °F)	150 cSt (ASTM D 445) (Typical Value)
Explosive properties	No data
Oxidising properties	No data
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %
Section 10: Stability and Reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.
CECTION 44 T ' I ' II C '	

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient name	duct / ingredient name Result		Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated fleavy paramilic	LD 50 Oral	Rat	>15000 mg/kg	-

Irritation / corrosion

Skin		
Eye	No known significant effects or critical hazards.	
Respiratory		
Sensation		
Skin	No known significant effects or critical hazards.	
Respiratory	No known significant effects of critical nazards.	
Mutagenicity	No data available to indicate product or any components present greater than 0.1 $\%$ are multigene or genotoxic.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate.	
Reproductive toxicity	The product should not be regarded as a carcinogen. Contains no ingredient listed as toxic to reproduction.	
Specific target organ toxicity – single exposure	Not classified	
Specific target organ toxicity – repeated exposure		
Aspiration hazard	Aspiration hazard – Category 1	
Information on likely routes of exposure	Not available	
Potential acute health effects		
Eye contact	Eye contact may cause redness and transient pain.	
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	May be fatal if swallowed and enters airways.	
Potential chronic health effects		
General	No known significant effects or critical hazards.	
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen.	







Mutagenicity		
<u> </u>	No known significant effects or critical hazards.	
Teratogenicity		
Product / ingredient name		
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
Canada	Domestic Substances List (DSL) – Yes	
Callada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Luiope	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







Section 1: Identification of the Substance / Mixtu	ire			
1.1 Product identifier				
Product name	Divyol Gear Oil ZN 220			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses				
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	<u> </u>			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures		,		
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixto	ıre			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures				
6.1 Personal precautions, protective equipment and em	ergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.			
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.			
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.			
6.3 Methods and material for containment and cleaning up				
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.			
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.			
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.			
Section 7: Handling and Storage				
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.			
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.			
7.3 Specific end use(s) – Recommendations	Not available			







The list of Identified Uses in Section 1 should be seen	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters	inted for any available use-specific information provided in the Exposure Scenario(s).		
<u> </u>			
Occupational exposure limits	Distillation with our of house contract		
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptablevels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
рН	Not applicable		
Pour point	<-6°C (ASTM D 97)		
Flash point	> 230 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available Not available		
Flammability limits in air (lower), % by volume	Not available Not available		
Flammability limits in air (upper), % by volume	Not available Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water		
Partition coefficient (n-octanol/water)	Not available		
Decomposition temperature	No data		
Auto-ignition temperature	>300 °C		
Kinematic viscosity at 40 °C (104 °F)	220 cSt (ASTM D 445) (Typical Value)		
Explosive properties	No data		
Oxidising properties	No data		
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %		
Section 10: Stability and Reactivity			
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	Stable under normal conditions		
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.		
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.		
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and		
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.		
CECTION AS TO A LOCK OF			

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.12.12.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
created field y paranime	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity		
Teratogenicity		
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed	
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable	
International Lists National Inventory	Inventory name	
Australia	Australian Inventory of Chemical Substances (AICS) – Yes	
	Domestic Substances List (DSL) – Yes	
Canada	Non-Domestic Substances List (NDSL) – No	
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes	







Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes		
Europe	European List of Notified Chemical Substances (ELINCS) – No		
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes		
Korea	Existing Chemicals List (ECL) – Yes		
New Zealand	New Zealand Inventory – Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes		
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).		
Section 16: Other Information			
Revision comments			
Legend to abbreviations			
ADR	European agreement concerning the international carriage of dangerous good by road.		
RID	Regulations agreement concerning the international carriage of dangerous good by rail.		
IMDG Code	International Maritime Dangerous Goods Code.		
ICAO	International Civil Aviation Organization.		
IATA	International Air Transport Association.		
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.		
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].		
SCBA	Self-Contained Breathing Apparatus.		
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].		
LC 50	Median lethal concentration.		
LD 50	Median lethal dose.		
PBT	Persistent, Bio accumulative and Toxic.		

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







Section 1: Identification of the Substance / Mixtu	re			
1.1 Product identifier				
Product name	Divyol Gear Oil ZN 320			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	***			
1.2 Identified uses	'			
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification	'			
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	'			
Inhalation exposure	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician			
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu	re			
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters	•			
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures	
6.1 Personal precautions, protective equipment and em	ergency procedures
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.
6.3 Methods and material for containment and cleaning	up
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.
Section 7: Handling and Storage	
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.
7.3 Specific end use(s) – Recommendations	Not available







The list of identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).		
8.1 Control parameters			
Occupational exposure limits			
Product / Ingredient name	Distillates, mixture of hydrocarbons		
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume.		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.		
Individual protection measures			
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.		
Eye / face protection	Recommended: Safety glasses with side shields.		
Skin protection			
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.		
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.		
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.		
Section 9: Physical and Chemical Properties			
Appearance	Clear		
Physical state	Liquid		
Colour	Brownish		
Odor	Petroleum odor		
Odour threshold	Not available		
рН	Not applicable		
Pour point	< -6 °C (ASTM D 97)		
Flash point	> 240 °C		
Evaporation rate	Not available		
Flammability (solid, gas)	Not available		
Flammability limits in air (lower), % by volume	Not available		
Flammability limits in air (upper), % by volume	Not available		
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)		
Density Solubility (ies)	0.88 max at 15 °C		







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	320 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
CECTION 11. Taxical arisal Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Product / ingredient name	Result	Species	Dose	Exposure
21.111.121.121.1	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neary paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Skin Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be Carcinogenicity regarded as a carcinogen.







Mutagenicity	-		
Teratogenicity	No known significant effects or critical hazards.		
Product / ingredient name	NO KHOWIT SIGNIFICATIVE CITY OF CHICKEN HAZZAIUS.		
Fertility effects			
Other information Specific hazard	Not available		
Section 12: Ecological Information			
12.1 Toxicity	Not expected to be harmful to aquatic organisms.		
12.2 Persistence and degradability	Not inherently biodegradable.		
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.		
12.4 Mobility in soil	Not considered mobile.		
12.5 Results of PBT & vPvB assessment	Not applicable		
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.		
Section 13: Disposal Considerations			
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific		
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contamina or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal		
Hazardous waste	Yes		
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.		
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.		
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	oly with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.		
Taloja Plant	aloja Plant Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.	
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.	
Emergency / Info Phone No.	No. Phone: +91-22-40635600 • Fax: +91-22-40635601	
Email	info@gandharoil.com	







Section 1: Identification of the Substance / Mixture				
1.1 Product identifier				
Product name	Divyol Gear Oil ZN 460			
Product description	Industrial Gear Box Oil			
Product type	Industrial Oil			
MARPOL Annex-1	****			
1.2 Identified uses	'			
Distribution of substance	Industrial			
Formulation & (re)packing of substance & mixtures	Industrial			
Manufacture of substance	Industrial			
Functional fluids	Industrial			
Section 2: Hazard Identification				
4-Extreme	Health	1		
3-High	Flammability	1		
2-Moderate	Reactivity	0		
1-Slight	Special	-		
Section 3: Compostion / Information on Ingredie	nts			
Product / Ingredient name	CAS No.: Not applicable for blended product. Distillates (Petroleum) mixture of hydro-treated hydrocarbons.			
Section 4: First Aid Measures	·			
Inhalation exposure	Remove to fresh air & provide oxyg	Remove to fresh air & provide oxygen, if breathing is difficult. Contact physician		
Skin contact	Remove contaminated clothing. Flush skin with water. Wash skin thoroughly with mild soap & water. If irritation occurs, call a physician.			
Swallowing or other	Do not induce vomiting. In general no treatment is necessary unless large quantities are ingested. Get medical advice.			
Eye contact	Rinse continuously with water for several minutes. Get medical attention, if irritation persists.			
Protection first-aiders	Disconnecting electrical supply. Ensure adequate ventilation and check that a safe and breathing area is available before entry into confined spaces.			
Section 5: Fire Fighting Measures				
5.1 Extinguishing media				
Unsuitable extinguishing media	Use dry powder, foam, carbon dioxide. Do not use direct water and wet chemicals, or water on the burning product. They may spread the fire. Use foam simultaneously on the surface.			
5.2 Special hazards arising from the substance or mixtu				
Hazards from the substance or mixture	Flammable liquids in pressurised containers may rupture and when exposed to heat, creating a highly flammable vapour cloud.			
Hazardous thermal decomposition products	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H_2S , SO_x (sulphur oxides) or sulphuric acid and unidentified organic and inorganic compounds.			
5.3 Advice for firefighters				
Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face- piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			







Section 6: Accidental Release Measures			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind / keep distance from source. In case of large spillages, alert occupants in downwind areas. Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations. Note: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave / current direction and speed) may significantly influence the choice of appropriate actions.		
For emergency responders	For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken. Small spillages: Normal antistatic working clothes are usually adequate. Large spillages: Full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and / or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory Protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H ₂ S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.		
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.		
6.3 Methods and material for containment and cleaning	up		
Small spill	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.		
Large spill	Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
6.4 Reference to other sections	See Section 1: For emergency contact information. See Section 8: For information on appropriate personal protective equipment. See Section 13: For additional waste treatment information.		
Section 7: Handling and Storage			
7.1 Advice on general information – hygiene, storage	Obtain special instructions before use. Keep away from heat / sparks / open flames/hot surfaces. No smoking. Use and store only outdoors or in a well-ventilated area. Hazard of slipping on spilt product. Avoid release to the environment.		
7.2 Conditions for safe storage including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Store separately from oxidising agents. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable / combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Protect from sunlight.		
7.3 Specific end use(s) – Recommendations	Not available		







The list of Identified Uses in Section 1 should be consi	ulted for any available use-specific information provided in the Exposure Scenario(s).
8.1 Control parameters	
Occupational exposure limits	
Product / Ingredient name	Distillates, mixture of hydrocarbons
Exposure limits values	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume [Air contaminant]. AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m ³ 8 hours. Form: mist and fume STEL: 3 mg/m ³ 15 minutes. Form: mist and fume.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure control Appropriate engineering controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Eye / face protection	Recommended: Safety glasses with side shields.
Skin protection	
Hand protection	4 – 8 hours (breakthrough time): nitrile rubber.
Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure control	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptab levels.
Section 9: Physical and Chemical Properties	
Appearance	Clear
Physical state	Liquid
Colour	Brownish
Odor	Petroleum odor
Odour threshold	Not available
рН	Not applicable
Pour point	< -6 °C (ASTM D 97)
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air (lower), % by volume	Not available
Flammability limits in air (upper), % by volume	Not available
Vapour pressure	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Density Solubility (ies)	0.88 max at 15 °C







Solubility (water)	Insoluble in water	
Partition coefficient (n-octanol/water)	Not available	
Decomposition temperature	No data	
Auto-ignition temperature	>300 °C	
Kinematic viscosity at 40 °C (104 °F)	460 cSt (ASTM D 445) (Typical Value)	
Explosive properties	No data	
Oxidising properties	No data	
DMSO extractable compounds for base oil substance(s) according to IP346	Not available <3 %	
Section 10: Stability and Reactivity		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent.	
10.4 Conditions to avoid	Keep away from extreme heat and oxidising agents.	
10.5 Incompatible materials	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S, SO ₂ (sulphur oxides) or sulphuric acid and	
10.6 Hazardous decomposition products	unidentified organic and inorganic compounds.	
SECTION 11. Taxicalarias Information		

11.1 Information on toxicological effects

Acute toxicity

Irritation / corrosion

Carcinogenicity

Skin

Product / ingredient name	Result	Species	Dose	Exposure
	LC 50 Inhalation dusts and mists	Rat	>2.18mg/l	4 hours
Distillate (Petroleum), hydro treated heavy paraffinic	LD 50 Dermal	Rabbit	> 5000 mg/kg	-
treated neavy paramine	LD 50 Oral	Rat	>15000 mg/kg	-

Eye No known significant effects or critical hazards. Respiratory Sensation Skin No known significant effects or critical hazards. Respiratory No data available to indicate product or any components present greater than 0.1 % are Mutagenicity multigene or genotoxic. Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. Specific target organ toxicity - single exposure Not classified Specific target organ toxicity – repeated exposure Aspiration hazard Aspiration hazard - Category 1 Information on likely routes of exposure Not available Potential acute health effects Eye contact Eye contact may cause redness and transient pain. Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Skin contact No known significant effects or critical hazards. Ingestion May be fatal if swallowed and enters airways. Potential chronic health effects General No known significant effects or critical hazards.



regarded as a carcinogen.

The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be





Mutagenicity		
Teratogenicity	No known significant offects or exitical hazards	
Product / ingredient name	No known significant effects or critical hazards.	
Fertility effects		
Other information Specific hazard	Not available	
Section 12: Ecological Information		
12.1 Toxicity	Not expected to be harmful to aquatic organisms.	
12.2 Persistence and degradability	Not inherently biodegradable.	
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.	
12.4 Mobility in soil	Not considered mobile.	
12.5 Results of PBT & vPvB assessment	Not applicable	
12.6 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.	
Section 13: Disposal Considerations		
The information in this section contains generic advice an information provided in the Exposure Scenario(s).	d guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific	
Product Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorisations, relevant contamination limits, safety regulations and air quality legislation. Contaminor waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organisation, and/or prescribe composition limits and methods for recovery or disposal	
Hazardous waste	Yes	
European waste catalogue (EWC) Waste Code 13 03 07*	Waste designation.	
Packaging	Mineral-based non-chlorinated insulating and heat transmission oils.	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	

International transport regulations

	ADR / RID	ADN	IMO / IMDG Classification	ICAO / IATA Classification
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	_
14.5 Environmental hazards	No	No	No	No
Additional Information	_	_	_	-

14.6 Special precautions for user oils

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

Annex XIV – List of substances subject to authorisation Annex XIV Substances of very high concern	None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable
International Lists National Inventory	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS) – Yes
Canada	Domestic Substances List (DSL) – Yes
	Non-Domestic Substances List (NDSL) – No
China	Inventory of Existing Chemical Substances in China (IECSC) – Yes







Europa	European Inventory of Existing Commercial Chemical Substances (EINECS) – Yes	
Europe	European List of Notified Chemical Substances (ELINCS) – No	
Japan	Inventory of Existing and New Chemical Substances (ENCS) – Yes	
Korea	Existing Chemicals List (ECL) – Yes	
New Zealand	New Zealand Inventory – Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory – Yes	
	ply with the inventory requirements administered by the governing country(s) uct are not listed or exempt from listing on the inventory administered by the governing country(s).	
Section 16: Other Information		
Revision comments		
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG Code	International Maritime Dangerous Goods Code.	
ICAO	International Civil Aviation Organization.	
IATA	International Air Transport Association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bio accumulative and Toxic.	

GANDHAR OIL REFINERY (INDIA) LTD.	
Taloja Plant	Plot No.10, MIDC, Main Road, Taloja, Taluka Panvel, District - Raigad 410208, India.
Silvassa Plant	Plot No. 2, Survey No. 678/1/3, Village Naroli, Near Naroli Check Post, Silvassa, Dadra & Nagar Haveli, Union Territory 396230, India.
Emergency / Info Phone No.	Phone: +91-22-40635600 • Fax: +91-22-40635601
Email	info@gandharoil.com







Gandhar Oil Refinery (India) Limited

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, GMP Certified, NABL Accreditation and Government Recognized Three Start Export House

Registered Office

18th Floor, DLH Park, S. V. Road, Goregaon (W), Mumbai 400062, India. | Phone: +91-22-40635600 | Fax: +91-22-40635601 Email: sales@gandharoil.com | Website: www.gandharoil.com

Branch Offices and Depots

Pune | Baroda | Indore | Raipur | Udaipur | Jaipur | Delhi | Faridabad | Ghaziabad | Sonepat | Manesar | Haridwar | Patna | Hyderabad | Mangalore | Bangalore Guwahati | Varanasi | Hapur | Dharamtar | Jaigarh | Kandla | Surat (Magdalla) | Navlakhi | Krishnapatnam | Vishakapatnam | Gangavaram

Plants

Taloja | Silvassa | Sharjah July 2021