

SAFETY DATA SHEET

Gulf Super Tractor Oil Universal, SAE 10W-40

08101/10W-40/EU

Issuing Date 01-19-2022

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Version 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name	Gulf Super Tractor Oil Universal, SAE 10W-40
Product Code(s)	08101/10W-40/EU

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Engine / Hydraulic / Transmission fluid

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Supplier

Gulf Oil Supply Company Limited B2 Industry Street, Qormi, QRM 3000, Malta Tel: +44 207 321 6219 E-mail: products@gulfoilltd.com, sds@gulfoilltd.com

1.4. Emergency telephone number

	Europe: (+) 44 808 189 0979 (Code 334276) (+) 1 760 476 3961 (Code 334276) (+) 32 (0) 3241 33 55		
Poison Information Center telephone number	(IE) +353 (0)1 809 2166 (08:00 - 22:00), (IS) +354 543 2222		

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

Signal word None

Hazard statements

EUH208 - Contains Benzene, polypropene derivatives, sulfonated, calcium salts; C14-18 alpha-olefin epoxide, reaction products with boric acid. May produce an allergic reaction.

Precautionary Statements - EU (§28, 1272/2008) None

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

This product is a mixture. Health hazard information is based on its ingredients

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	-	50% - 100%	**	-
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	-	-	10% - 25%	Asp. Tox. 1 (H304) (EUH066)	-
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	-	10% - 25%	Asp. Tox. 1 (H304) (EUH066)	-
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	224-235-5	4259-15-8	2.5% - 10%	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) SCL H319/H318 C: >= 50%	01-2119493635-27- xxxx
Calcium branched alkyl phenate sulphide (overbased)	-	NOT AVAILABLE	1% - 2.5%	Aquatic Chronic 4 (H413)	No data available
Benzene, polypropene derivatives, sulfonated, calcium salts	-	NOT AVAILABLE	0% - 1%	Skin Sens. 1B (H317)	No data available
C14-18 alpha-olefin epoxide, reaction products with boric acid	939-580-3	NOT AVAILABLE	0% - 1%	Skin Sens. 1B (H317)	01-2119976364-28- xxxx

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils. The highly refined base oil may be described by one or more of the following generic CAS identifiers: 64742-54-7, 64742-65-0, 64742-52-5, 64742-53-6, 64742-62-7, 64742-57-0, 64742-01-4, 64741-88-4, 64742-96-4, 64741-97-5, 64742-55-8, 64742-56-9, 64741-89-5, 8042-47-5.

** Substances for which there are Community workplace exposure limits

Full text of H- and EUH-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	May produce an allergic reaction. If symptoms persist, call a physician.
Inhalation	Remove to fresh air.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. May cause an allergic skin reaction. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Ingestion	Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice.
Self-protection of the first aider	Use personal protective equipment as required.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	Prolonged contact may cause redness and irritation. Rashes. Itching.
4.3. Indication of any immediate me	edical attention and special treatment needed
Note to physicians	May cause sensitization by skin contact. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use:. Carbon dioxide (CO2). Dry chemical. Foam. Water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable extinguishing media

Do not use straight streams. Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. The product is insoluble and floats on water.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take precautionary measures against static discharges.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up			
Methods for containment	Dike to collect large liquid spills.		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: HANDLING AND STORAGE					
7.1. Precautions for safe handling					
Advice on safe handling	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.				
General hygiene considerations	When using do not eat, drink or smoke. Wash hands before breaks and after work. Take off contaminated clothing and wash before reuse.				
7.2. Conditions for safe storage, in	7.2. Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep cool. Protect from sunlight. Keep away from open flames, hot surfaces and sources of ignition.				
Materials to Avoid	Oxidizing agent				

7.3. Specific end use(s)

Engine / Hydraulic / Transmission fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Legend (s) - Skin; TWA - Time-Weighted Average; STEL - Short Term Exposure Limit; Ceiling - Ceiling Value; TLV® - Threshold Limit Value; PEL (Permissible Exposure Limit)

Chemical name	European Union	United Kingdom	France	Spain
Highly refined base oil				VLA-EC: 10 mg/m ³
(Viscosity >20.5 cSt @40°C)				VLA-ED: 5 mg/m ³
Highly refined, low viscosity				VLA-EC: 10 mg/m ³
base oil (Viscosity <7 cSt @40°C)				VLA-ED: 5 mg/m ³
Highly refined, low viscosity mineral oils/hydrocarbons				VLA-EC: 10 mg/m ³ VLA-ED: 5 mg/m ³
(Viscosity >7 - <20.5 cSt				VEA-ED. 5 mg/m
@40°C)				

Spain Límites de Exposición Profesional Para Agentes Químicos en España (Ley 31/1995).

Chemical name	Germany	Italy	Portugal	Netherlands
Highly refined base oil		TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
(Viscosity >20.5 cSt @40°C)			STEL: 10 mg/m ³	
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)		TWA: 5 mg/m³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m³
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)		TWA: 5 mg/m³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m³

Italy Istituto Superiore per la Prevenzione e la Sicurezza del Lavoro (ISPESL), Allegato XXXVIII e Allegato XLIII - Valori Limite di Esposizione Professionale.

Portugal Valores-limite e índices biológicos de exposição profissional a agentes químicos. Quadro 1 - Valores Limite de Exposição (Norma Portuguesa NP 1796:2014).

Netherlands Grenswaarden gezondheidsschadelijke stoffen; Arbeidsomstandighedenregeling.

Chemical name	Austria	Switzerland	Poland	Ireland
Highly refined base oil			TWA: 5 mg/m ³	STEL: 10 mg/m ³
(Viscosity >20.5 cSt @40°C)			frakcja wdychalna	TWA: 5 mg/m ³
				(Mist)
Highly refined, low viscosity			TWA: 5 mg/m ³	STEL: 10 mg/m ³
base oil (Viscosity <7 cSt			frakcja wdychalna	TWA: 5 mg/m ³
@40°C)				(Mist)
Highly refined, low viscosity			TWA: 5 mg/m ³	STEL: 10 mg/m ³
mineral oils/hydrocarbons			frakcja wdychalna	TWA: 5 mg/m ³
(Viscosity >7 - <20.5 cSt				(Mist)
@40°C)				

Poland Rozporzadzenie Ministra Pracy i Polityki Spolecznej z dnia 6 czerwca 2014 w sprawie najwyzszych dopuszczalnych stezen i natezen czynników szkodliwych dla zdrowia w srodowisku pracy (Dz.U. 2016 Nr. 944).

Ireland 2016 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.

Chemical name	Finland	Denmark	Norway	Sweden
Highly refined base oil (Viscosity >20.5 cSt @40°C)	TWA: 5mg/m³ (Öljysumu)	TWA: 1 mg/m³ (Olietåge)	TWA: 1 mg/m³ (Oljetåke)	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	TWA: 5mg/m³ (Öljysumu)	TWA: 1 mg/m³ (Olietåge)	TWA: 1 mg/m³ (Oljetåke)	(Oljedimma) TWA: 1 mg/m ³ STEL: 3 mg/m ³ (Oljedimma)
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5mg/m³ (Öljysumu)	TWA: 1 mg/m³ (Olietåge)	TWA: 1 mg/m³ (Oljetåke)	TWA: 1 mg/m ³ STEL: 3 mg/m ³ (Oljedimma)

Finland Förordningen om koncetrationer som befunnits skadliga, 268/2014 - HTP-arvot 2014.

Denmark Bekendtgørelse om grænseværdier for stoffer og materialer. Arbejdstilsynets bekendtgørelse nr. 507 Bilag 2 Afsnit A. Norway Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (Forskrift om tiltaks- og grenseverdier), FOR-2011-12-06-1358, FOR-2016-06-21-760, FOR-2016-12-22-1860. Sweden Arbetsmiljöverkets föreskrifter om hygieniska gränsvärden och allmänna råd om tillämpningen av föreskrifterna.

Chemical name	Czech Republic	Hungary	Bulgaria	Romania
Highly refined base oil (Viscosity >20.5 cSt @40°C)	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	<u> </u>	TWA: 5 mg/m ³	TWA: 5 mg/m³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 5 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m ³ STEL: 10 mg/m ³

Czech Republic Narizeni vlady 93/2012, kterym se meni narizeni vlady c.361/2007 Sb., kterym se stanovi podminky ochrany zdravi pri praci, ve zneni narizeni vlady c.68/2010 Sb.

Hungary 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai biztonságáról (62/2016. (XII.29.)).

Bulgaria НАРЕДБА #13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа.

Romania Valori Limit Obligatorii Nationale de expunere profesională ale agenților chimic - Anex Nr.1 Pubilicat în Monitorul Oficial, Partea I nr.

845.

Chemical name	Greece	Cyprus	Turkey	Malta
Highly refined base oil	TWA: 5 mg/m ³			
(Viscosity >20.5 cSt @40°C)				
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	TWA: 5 mg/m³			
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5 mg/m³			

Greece Οριακές Τιμές Επαγγελματικής Έκθεσης - Προστασία της υγείας και της ασφάλειας των εργαζομένων που εκτίθενται σε ορισμένους καρκινογόνους και μεταλλαξιογόνους παράγοντες 127/2000.

Chemical name	Belgium	Luxembourg	Iceland	Croatia
Highly refined base oil (Viscosity >20.5 cSt @40°C)	TWA: 5 mg/m ³ STEL: 10 mg/m ³			
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	TWA: 5 mg/m ³ STEL: 10 mg/m ³			
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5 mg/m ³ STEL: 10 mg/m ³			

Belgium Arrêté royal relatif à la protection de la santé et de la sécurité des travailleurs contre les risques liés à des agents chimiques sur le lieu de travail.

Chemical name	Russia	Estonia	Latvia	Lithuania
Highly refined base oil			TWA: 5 mg/m ³	TWA: 1 mg/m ³
(Viscosity >20.5 cSt @40°C)				STEL: 3 mg/m ³
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)			TWA: 5 mg/m³	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)			TWA: 5 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³

Latvia Ministru Kabineta noteikumi Nr. 325 - Darba aizsardzības prasības, saskaroties ar ķīmiskajām vielām darba vietās. Lithuania Del Lietuvos higienos normos HN 23:2011 "Cheminiu medžiagu profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai".

Chemical name	Belarus	Ukraine	Slovakia	Slovenia
Highly refined base oil			TWA: 5mg/m ³	
(Viscosity >20.5 cSt @40°C)				
Highly refined, low viscosity			TWA: 5mg/m ³	
base oil (Viscosity <7 cSt				
@40°C)				
Highly refined, low viscosity			TWA: 5mg/m ³	
mineral oils/hydrocarbons				
(Viscosity >7 - <20.5 cSt				
@40°C)				

Slovakia Nariadenie Vlády Slovenskej republiky z 16. januára 2002 o ochrane zdravia pri práci s karcinogénnymi a mutagénnymi faktormi.

Derived No Effect Level (DNEL)

Workers Systemic toxicity

Chemical name Long term - O	al Long term -	Long term -	Short term - Oral	Short term -	Short term -
exposure	Dermal exposure	Inhalation	Exposure	Dermal exposure	Inhalation

		exposure		exposure
Zinc bis[O,O-bis(2-ethylhexyl)]	9.6 mg/kg	6.6 mg/m³		
bis(dithiophosphate)				

Workers Local effects

Not determined

Consumers Systemic toxicity

Chemical name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	0.19 mg/kg	4.8 mg/kg	1.67 mg/m³			

Consumers Local effects

Not determined

Predicted No Effect Concentration (PNEC)

Chemical name	Fresh water	Sea water	Fresh water sediment	Sea sediment	Soil
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4 µg/L	4.6 µg/L	322 µg/kg	32.2 µg/kg	61.9 µg/kg

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Engineering controls should be considered as the first line of protection against adverse exposure to harmful substances. Administrative controls and PPE should be used in the absence of engineering controls or as supplemental controls where engineering controls are insufficient in reducing specific exposures to an acceptable level.

Eve Protection

Safety glasses with side-shields.

Hand Protection

Butyl rubber

The following glove type may be suitable for handling this product:. Protective gloves complying with EN 374. Nitrile rubber

Glove thickness => 0.38 mm Break through time => 480 min

Glove thickness => 0.64 mm Break through time => 480 min

Glove material suitability will vary depending on specific use conditions. Consideration should be given to variables such as operational characteristics, anticipated contact time, task requirements and other factors relevant to the selection of PPE. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Any specific glove information provided is based on published literature and glove manufacturer data. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and body protection

Long sleeved clothing.

Respiratory protection

No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

This information is based on the state in which the specific product is delivered and on the intended use specified within this SDS. This information is provided based on literature reference, manufacturer specifications and recommendations and/or derived by analogy with similar substances. The level of protection and types of exposure controls will vary depending on potential exposure conditions.

Hygiene measures

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

No special environmental precautions required.

Thermal hazards

None under normal use conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid		
Color	light brown clear		
Odor	Slight		

<u>Property</u> Melting point / freezing point Boiling point / boiling range Flammability Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive	Values < -27 °C > 300 °C Ignitable substance No data available No data available	<u>Remarks • Method</u>
limits Flash point Autoignition temperature Decomposition temperature pH Kinematic viscosity Solubility	194 °C / 381.2 °F >300°C >300°C 8 94.3 cSt @ 40 °C Immiscible in water	ASTM D 92 ASTM D 445 Soluble in hydrocarbons
Partition coefficient Vapor pressure Relative density Vapor density Particle characteristics	Not applicable <0.01 kPa 0.88 No data available Not applicable	@15°C
9.2. Other information_ Viscosity, kinematic (100°C)	13.2 cSt @ 100°C	ASTM D 445 ASTM D 97
Pour Point	-36 °C	AGTIVI D 91

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors; Carbon monoxide; Carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information - Principle Routes of Exposure

Inhalation	None known
Eye contact	None known
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Ingestion	None known

Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Acute toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	>5 mg/L
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	>5 mg/L
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	>5 mg/L
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Sensitization Respiratory Sensitization Skin sensitization	Based on available data, the classification criteria are not met. Repeated contact may cause allergic reactions in very susceptible persons.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

Carcinogenicity	Based on available data, the classification criteria are not met.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
Specific target organ systemic toxicity (single exposure)	Based on available data, the classification criteria are not met		
Specific target organ systemic toxicity (repeated exposure)	Based on available data, the classification criteria are not met		
Aspiration hazard	Based on available data, the classification criteria are not met.		
11.2. Information on other hazards			
Endocrine Disruptor Information	None known		
Other information	No information available		

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No special environmental measures are necessary

Chemical name	Algae/aquatic plants	Fish	Crustacea
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>100: 72 h mg/L	>100: 96 h mg/L	>100: 48 h mg/L
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	>100: 72 h mg/L	>100: 96 h mg/L	>100: 48 h mg/L
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>100: 72 h mg/L	>100: 96 h mg/L	>100: 48 h mg/L
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)	 1.0 - 5.0: 96 h Pseudokirchneriella subcapitata mg/L EC50 410: 72 h Desmodesmus subspicatus mg/L EC50 	1.0-5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static 4.4: 96 h Oncorhynchus mykiss mg/L LC50	75: 48 h Daphnia magna mg/L EC50
Calcium branched alkyl phenate sulphide (overbased)	>1000: 96 h Pseudokirchneriella subcapitata mg/L >1000: 96 h Selenastrum capricornutum mg/L EC50	>1000: 96 h Pimephales promelas mg/L LC50 static	>1000: 48 h Daphnia magna mg/L EC50
C14-18 alpha-olefin epoxide, reaction products with boric acid	>100: 72 h Selenastrum capricornutum mg/L EC50	>100: 96 h Oncorhynchus mykiss mg/L LC50	>100: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3. Bioaccumulative potential

Chemical name	Partition coefficient
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	2.86
Calcium branched alkyl phenate sulphide (overbased)	11.08
C14-18 alpha-olefin epoxide, reaction products with boric acid	9.4

12.4. Mobility in soil

The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6. Endocrine Disruptor Information

None known

12.7. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Observe all label precautions until container is cleaned, reconditioned or destroyed
Waste codes / waste designations according to EWC / AVV	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

14.1. UN-Number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class

Not regulated

14.4. Packing Group

Not regulated

14.5. Environmental Hazards

None

14.6. Special precautions for users

None

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

IMDG	Not regulated
<u>ADR</u>	Not regulated
IATA_	Not regulated
ADN_	Not regulated

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006) European Agreement concerning the International Carriage of Dangerous Goods by Road Safety Data Sheet according to Regulation EC 1907/2006 (REACh) with its amendment regulation EU 2020/878 European Agreement concerning the International Carriage of Dangerous Goods by Road/ Regulations concerning the International Carriage of Dangerous Goods by Rail International Civil Aviation Organization / International Air Transport Association Dangerous Goods Regulation

Substance(s) of Very High Concern

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Authorizations and/or restrictions on use:

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII). This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

National regulations

Germany Water hazard class (WGK)

Product Registration number Denmark Registration (DK) Hazard to water/Class 2

No information available

International Regulations

Ozone-depleting substances (ODS) Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory All ingredients are on the inventory or exempt from listing

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List All ingredients are on the inventory or exempt from listing

AICS - Australian Inventory of Chemical Substances All ingredients are on the inventory or exempt from listing

PICCS - Philippines Inventory of Chemicals and Chemical Substances All ingredients are on the inventory or exempt from listing

KECL - Korean Existing and Evaluated Chemical Substances All ingredients are on the inventory or exempt from listing

IECSC - China Inventory of Existing Chemical Substances All ingredients are on the inventory or exempt from listing

ENCS - Japan Existing and New Chemical Substances All ingredients are on the inventory or exempt from listing

TCSI - Taiwan National Existing Chemical Inventory Contact supplier for inventory compliance status

NZIOC - New Zealand Inventory of Chemicals All ingredients are on the inventory or exempt from listing

Other Information

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No	EC No	REACH registration number
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7	309-877-7	01-2119489969-06-xxxx
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	01-2119488706-23-xxxx
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	265-091-3	01-2119487081-40-xxxx
Residual oils (petroleum), solvent deasphalted	64741-95-3	265-096-0	01-2119487081-40-xxxx
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	265-097-6	01-2119483621-38-xxxx
Distillates (petroleum), solvent-refined light naphthenic	64741-97-5	265-098-1	01-2119480374-36-xxxx
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6	01-2119488707-21-xxxx
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	01-2119467170-45-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-xxxx
Distillates (petroleum), hydrotreated light haphthenic	64742-54-7	265-157-1	01-2119480373-34-333
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	01-2119484027-25-XXX
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	265-159-2	01-2119480132-48-xxxx
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8	01-2119489287-22-xxxx
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3	01-2119489287-22-XXX
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	01-2119480472-38-xxxx
	64742-65-0	265-169-7	01-2119480472-38-xxxx 01-2119471299-27-xxxx
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-00-0	265-169-7	01-2119471299-27-xxxx
Paraffin oils (petroleum), catalytic dewaxed heavy			
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8	265-176-5	01-2119485040-48-xxxx
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7	276-735-8	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity	72623-85-9	276-736-3	01-2119555262-43-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	276-738-4	01-2119474889-13-xxxx

Lubricating oils	74869-22-0	278-012-2	01-2119495601-36-xxxx
White mineral oil (petroleum)	8042-47-5	232-455-8	

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No	EC No	REACH registration number
Distillates (petroleum), hydrotreated heavy paraffinic	63742-54-7	265-157-1	01-2119484627-25-xxxx
Distillates (petroleum), heavy hydrocracked	64741-76-0	265-077-7	01-2119486951-26-xxxx
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	01-2119488706-23-xxxx
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	265-091-3	01-2119487067-30-xxxx
Residual oils (petroleum), solvent deasphalted	64741-95-3	265-096-0	01-2119487081-40-xxxx
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	265-097-6	01-2119483621-38-xxxx
Distillates (petroleum), solvent-refined light naphthenic	64741-97-5	265-098-1	01-2119480374-36-xxxx
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6	01-2119488707-21-xxxx
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	01-2119467170-45-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-xxxx
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	01-2119487077-29-xxxx
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	265-159-2	01-2119480132-48-xxxx
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8	01-2119489287-22-xxxx
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3	
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	01-2119480472-38-xxxx
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	265-174-4	01-2119487080-42-xxxx
Paraffin oils (petroleum), catalytic dewaxed light	64742-71-8	265-176-5	01-2119485040-48-xxxx
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	500-183-1	01-2119486452-34-xxxx
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7	276-735-8	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity	72623-85-9	276-736-3	01-2119555262-43-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	276-738-4	01-2119474889-13-xxxx
Lubricating oils	74869-22-0	278-012-2	01-2119495601-36-xxxx

The highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No	EC No	REACH registration number
Distillates (petroleum), hydrotreated heavy paraffinic	63742-54-7	265-157-1	01-2119484627-25-xxxx
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	01-2119484819-18-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-xxxx
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	01-2119487077-29-xxxx
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	265-159-2	01-2119480132-48-xxxx
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	265-183-3	01-2119448343-41-xxxx
Dec-1-ene, dimers, hydrogenated	68649-11-6	500-228-5	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	926-141-6	01-2119456620-43-xxxx

15.2. Chemical Safety Assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity Asp. Tox. - Aspiration Toxicity Acute Tox. - Acute Toxicity Aquatic Acute - Acute Aquatic Toxicity Aquatic Chronic - Chronic Aquatic Toxicity Eye Dam. - Eye Damage Eye Irrit. - Eye Irritation Skin Corr. - Skin Corrosion Skin Irrit. - Skin Irritation Skin Sens. - Skin Sensitizer Resp. Sens. - Respiratory Sensitizer STOT SE - Specific target organ systemic toxicity (Single exposure) STOT RE - Specific target organ systemic toxicity (repeated exposure) VOC - Volatile organic compounds

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking H304 - May be fatal if swallowed and enters airways H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H319 - Causes serious eye irritation H411 - Toxic to aquatic life with long lasting effects H413 - May cause long lasting harmful effects to aquatic life **Key literature references and sources for data used to compile the SDS** Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Physical hazards Health Hazards Environmental Hazards	On basis of test data Calculation Method Calculation Method
Revision Date	01-19-2022
Revision Note	Not applicable.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.