

## **SAFETY DATA SHEET**

## Gulf Superfleet Professional, SAE 10W-40 02220/10W-40/1A

**Issuing Date** 01-12-2023

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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 Superfleet Professional, SAE 10W-40

**Product Code(s)** 02220/10W-40/1AE

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

Recommended Use Engine oil

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Supplier Gulf Oil Supply Company Limited

1/B2 Triq l'Industrija

Zone 5 Central Business District

Qormi CBD 5030

Malta

Tel: +356 2147 0093

Gulf Oil Supply Company Ltd c/o 1st floor, 12 Charles II Street

London, SW1Y 4QU

UK

Tel: +44 207 321 6219

E-mail address products @gulfoilltd.com, sds @gulfoilltd.com

1.4. Emergency telephone number

+44 20 35147487 (Code 334276) +1 760 476 3962 (334276)

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 Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts May produce an allergic reaction.

#### **Precautionary statements**

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 mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	-	2.5% - 10%	Asp. Tox. 1 (H304) (EUH066)	-
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	283-392-8	84605-29-8	1% - 2.5%	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)  SCL H315 :: C>=6.25% H319 :: C>10% H318 :: C>12.5%	01-2119493626-26- xxxx
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	947-519-7	NOT AVAILABLE	0% - 1%	Skin Sens. 1B (H317) SCL H317 C: >10%	01-2120765489-36- 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, 64741-96-4, 64741-97-5, 64742-55-8, 64742-56-9, 64741-89-5, 8042-47-5.

One or more substances contained within this product has a specific concentration limit. This has been taken into account when calculating the overall hazard classification of the product.

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

<sup>\*\*</sup> Substances for which there are Community workplace exposure limits

## **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 medical 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

fire-fighters

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. Extremely slippery when

spilled.

#### 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, 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 oil

## **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 <sup>3</sup>
(Viscosity >20.5 cSt @40°C)				VLA-ED: 5 mg/m <sup>3</sup>
Highly refined, low viscosity	_			VLA-EC: 10 mg/m <sup>3</sup>

mineral oils/hydrocarbons		VLA-ED: 5 mg/m <sup>3</sup>
(Viscosity >7 - <20.5 cSt		
@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 <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
(Viscosity >20.5 cSt @40°C)			STEL: 10 mg/m <sup>3</sup>	
Highly refined, low viscosity		TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
mineral oils/hydrocarbons			STEL: 10 mg/m <sup>3</sup>	
(Viscosity >7 - <20.5 cSt				
@40°C)				

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 <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>
(Viscosity >20.5 cSt @40°C)			frakcja wdychalna	TWA: 5 mg/m <sup>3</sup>
				(Mist)
Highly refined, low viscosity			TWA: 5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>
mineral oils/hydrocarbons			frakcja wdychalna	TWA: 5 mg/m <sup>3</sup>
(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/m³ STEL: 3 mg/m³ (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/m³ STEL: 3 mg/m³ (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 hygjeniska 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 <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)		TWA: 5 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m³ STEL: 10 mg/m³

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 om 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 <sup>3</sup>			
(Viscosity >20.5 cSt @40°C)	_			
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 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 <sup>3</sup> STEL: 10 mg/m <sup>3</sup>			
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5 mg/m³ STEL: 10 mg/m³			

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 <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
(Viscosity >20.5 cSt @40°C)				STEL: 3 mg/m <sup>3</sup>
Highly refined, low viscosity			TWA: 5 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
mineral oils/hydrocarbons				STEL: 3 mg/m <sup>3</sup>
(Viscosity >7 - <20.5 cSt				
@40°C)				

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 (Viscosity >20.5 cSt @40°C)			TWA: 5mg/m <sup>3</sup>	
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt			TWA: 5mg/m <sup>3</sup>	
@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 - Oral exposure	Long term - Dermal exposure	Long term - Inhalation exposure	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation exposure
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts		12.1 mg/kg	8.31 mg/m <sup>3</sup>			
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts		25 mg/kg	17.63 mg/m³			

## **Workers Local effects**

	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
be mono-	eaction products of enzenesulfonic acid, C20-24 (even)-sec-alkyl es. para-, calcium salts		1.05 mg/cm <sup>2</sup>				

## **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
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0.24 mg/kg	6.1 mg/kg	2.11 mg/m³			
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	2.5 mg/kg	12.5 mg/kg	4.35 mg/m³			

## **Consumers Local effects**

Chemical name	Long term - Oral	Long term -	Long term -	Short term - Oral	Short term -	Short term -
	exposure	Dermal exposure	Inhalation	Exposure	Dermal exposure	Inhalation
			exposure			exposure
Reaction products of		526 μg/cm <sup>2</sup>				
benzenesulfonic acid,						
mono-C20-24 (even)-sec-alkyl						
derivs. para-, calcium salts						

### Predicted No Effect Concentration (PNEC)

Chemical name	Fresh water	Sea water	Fresh water sediment	Sea sediment	Soil
Phosphorodithioic acid,	4 μg/L	4.6 μg/L	22.03 μg/kg	2.203 µg/kg	2.06 µg/kg
mixed					
O,O-bis(1,3-dimethylbutyl					
and iso-Pr) esters, zinc salts					
Reaction products of	0.1 mg/L	0.1 mg/L	166.32 mg/kg	166.32 mg/kg	33.12 mg/kg
benzenesulfonic acid,	_	_			
mono-C20-24					
(even)-sec-alkyl derivs.					
para-, calcium salts					

#### 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.

#### **Eye Protection**

Safety glasses with side-shields.

## **Hand Protection**

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 Butyl rubber 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** 

Do not eat, drink or smoke when using this product. 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 stateLiquidColorAmber clearOdorHydrocarbon-like

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableBoiling point / boiling rangeNo data availableFlammabilityIgnitable substance

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

**Flash point** 244 °C / 471 °F ASTM D 92

Autoignition temperatureNo data availableDecomposition temperatureNo data availablepHNo data available

Kinematic viscosity 98 cSt @ 40 °C ASTM D 445

**Solubility** Immiscible in water Soluble in hydrocarbons

Partition coefficient Not applicable Vapor pressure No data available

Relative density 0.8686 @15°C

Vapor densityNo data availableParticle characteristicsNot applicable

9.2. Other information

 Viscosity, kinematic (100°C)
 14.5 cSt @ 100°C
 ASTM D 445

 Pour Point
 -42 °C / -44 °F
 ASTM D 97

## **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	>2000 mg/kg	>2000 mg/kg	>5 mg/L
>20.5 cSt @40°C)			
Highly refined, low viscosity mineral	>2000 mg/kg	>2000 mg/kg	>5 mg/L
oils/hydrocarbons (Viscosity >7 -			
<20.5 cSt @40°C)			
Phosphorodithioic acid, mixed	2000 mg/kg (Rat)	> 3200 mg/kg (Rabbit)	
O,O-bis(1,3-dimethylbutyl and			
iso-Pr) esters, zinc salts			
Reaction products of	>5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	
benzenesulfonic acid, mono-C20-24			
(even)-sec-alkyl derivs. para-,			
calcium salts			

**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** Based on available data, the classification criteria are not met.

**Skin sensitization** 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 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
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	21: 72 h Scenedesmus quadricauda mg/L EC50	4.5: 96 h Oncorhynchus Mykiss mg/L LC50 46: 96 h Cyprinodon variegatus mg/L LC50	23: 48 h Daphnia magna mg/L EC50
Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts	>1000: 96 h Selenastrum capricornutum mg/L EC50	>100: 96 h Oncorhynchus mykiss mg/L LC50 >1000: 96 h Pimephales promelas mg/L LC50 >10000: 96 h Cyprinodon variegatus mg/L LC50	>1000: 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
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr	0.56

esters, zinc salts	
Reaction products of benzenesulfonic acid, mono-C20-24	10.88
(even)-sec-alkyl derivs. para-, calcium salts	

#### 12.4. Mobility in soil

The product is insoluble and floats on water. Is not likely mobile in the environment due its low water solubility.

#### 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

<u>IMDG</u> Not regulated

ADR 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) Hazard to water/Class 2

**Product Registration number** 

Denmark Registration (DK)

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 Contact supplier for inventory compliance status

**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 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

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), 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

## 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
Aguatic Acute - Acute Aguatic

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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

#### 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 On basis of test data
Health Hazards Calculation Method
Environmental Hazards Calculation Method

Revision Date 01-13-2023

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.