Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Belgium

# **SAFETY DATA SHEET**

## Q8 Mahler MA SAE 40



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/					
1.1 Product identifier						
Product name	: Q8 Mahler MA SAE 40					
Viscosity or Type	: SAE 40					
1.2 Relevant identified uses	of the substance or mixture and uses advised against					
Material uses	: Lubricating oil for gas engines					
1.3 Details of the supplier of	the safety data sheet					
Supplier	: Kuwait Petroleum Companies in the Benelux Company Office: Brusselstraat 59, 2018 Antwerp, Belgium					
	Contactaddress: Petroleumkaai 7, 2020 Antwerp, Belgium Tel. +32 3 247 38 11, Fax +32 3 216 03 42					
Manufacturer / Distributor	: Kuwait Petroleum Belgium N.V./S.A. / Q8Oils Italia S.r.I.					
	Petroleumkaai 7Via Volpedo 2B-2020 Antwerp15050 Castellar Guidobono (AL)BelgiumItaly					
e-mail address of person						
responsible for this SDS	: SDSinfo@Q8.com, communication preferably in English only.					
PCN Information contact	: PCNinfo@Q8.com, communication preferably in English only.					
1.4 Emergency telephone nu	mber					
Europe	: +44 (0) 1235 239 670 CARECHEM24					
Global (English only)	: +44 (0) 1865 407 333					
National advisory body/Poi	ison Center					
Belgium	: Poison Centre : +32 (0)70 245 245					
SECTION 2: Hazards	identification					
2.1 Classification of the subs	stance or mixture					
Product definition	: Mixture					
Classification according to Not classified.	Regulation (EC) No. 1272/2008 [CLP/GHS]					
The product is not classified a	as hazardous according to Regulation (EC) 1272/2008 as amended.					
Ingredients of unknown toxicity	: None.					
Ingredients of unknown ecotoxicity	: None.					
See Section 11 for more deta	iled information on health effects and symptoms.					
2.2 Label elements						
Signal word	: No signal word.					
Hazard statements	: No known significant effects or critical hazards.					
Precautionary statements						
Prevention	: Not applicable.					
Response	: Not applicable.					

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: 30-09-2022

### **SECTION 2: Hazards identification**

Storage	1	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	1	Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	;	Prolonged or repeated contact may dry skin and cause irritation.

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≥90	Not classified.	-	[2]
Calcium branched chain alkyl phenate sulphide	REACH #: Polymer	≤3	Aquatic Chronic 4, H413	-	[1]
Severely refined mineral oil (C15 - C50) * - H304	-	≤3	Asp. Tox. 1, H304	-	[1] [2]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	EC: 270-128-1 CAS: 68411-46-1	<1	Repr. 2, H361f Aquatic Chronic 3, H412 See Section 16 for the full text of the H	-	[1]
			statements declared above.		

\* Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25

CAS: 64741-88-4, EC: 265-090-8, EU REACH: 01-2119488706-23

CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27

CAS: 64741-89-5, EC: 265-091-3, EU REACH: 01-2119487067-30

CAS: 64742-56-9, EC: 265-159-2, EU REACH: 01-2119480132-48 CAS: 1335203-17-2, EC: 934-956-3, EU REACH: 01-2119827000-58

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

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## **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

4.1 Description of first aid r	neasures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symp	<u>15</u>
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.
4.3 Indication of any immedi	medical attention and special treatment needed
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

## **SECTION 5: Firefighting measures**

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5.1 Extinguishing media		
Suitable extinguishing media	-	Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	ron	n the substance or mixture
Hazards from the substance or mixture	1	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	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 fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (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	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## SECTION 7: Handling and storage

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).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

**Recommendations** 

: Not available. : Not available.

Industrial sector specific solutions

### SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Severely refined mineral oil (C15 - C50) * - Not classified.	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist.
Severely refined mineral oil (C15 - C50) * - H304	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.

#### **Biological exposure indices**

No exposure indices known.

**Recommended monitoring** 1 Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the procedures 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.

#### **DNELs/DMELs**

### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	DNEL	Long term Oral	0.05 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.08 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.22 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.31 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.44 mg/ kg bw/day	Workers	Systemic

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.					
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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.					
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.					
Skin protection							
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm. Provide employee with skin care programmes.					
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.					
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	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2.					
Environmental exposure controls	:	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**

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The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

: Liquid. [Oily liquid.]
: Clear.
: Yellowish-brown.
: Slight
: Not available.
: Not applicable.
: -12°C (10.4°F) [ASTM D 97]
: >300°C (>572°F)
: Not applicable.
: Not available.
: Closed cup: 254°C (489.2°F) [ASTM D 93]
: >300°C (>572°F)
: >300°C
: Not applicable.
: Kinematic (40°C (104°F)): 116 mm²/s (116 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 13.1 mm²/s (13.1 cSt) [ASTM D 445]

#### Solubility

Media		Result
cold water		Not soluble
hot water		Not soluble
Solubility in water	:	Not available.
Partition coefficient n-octanol/ water (log Pow)	:	Not applicable.
/apor pressure	:	<0.01 kPa (<0.075006 mm Hg)
Density	:	0.89 g/cm³ [15°C (59°F)] [ASTM D 4052]
Relative vapor density	1	Not available.
Explosive properties	1	Not applicable.
Dxidizing properties	1	Not applicable.
Particle characteristics		
Median particle size	:	Not applicable.

9.2.1 Information with rega	ard to physical hazard classes
Explosive properties	: Not applicable.
Oxidizing properties	: Not applicable.

#### 9.2.2 Other safety characteristics

Not applicable.

## 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	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: Strong oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Severely refined mineral oil (C15 - C50) * - H304	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.53 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LD50 Oral	Rat	>5000 mg/kg	-

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Severely refined mineral oil (C15 - C50) * - Not classified.	N/A	N/A	N/A	N/A	5.53
Severely refined mineral oil (C15 - C50) * - H304	N/A	N/A	N/A	N/A	5.53

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Severely refined mineral oil (C15 - C50) * - Not classified.	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
	Skin - Edema	Rabbit	0	72 hours	7 days
	Skin - Erythema/Eschar	Rabbit	0.17	72 hours	7 days
Severely refined mineral oil (C15 - C50) * - H304	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
()	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
	Skin - Edema	Rabbit	0	72 hours	7 days

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## **SECTION 11: Toxicological information**

Skin - Erythema/Eschar

Rabbit

0.17 72 hours

7 days

**Conclusion/Summary** : Not available.

Respiratory	or skin	sensitization

Product/ingredient name	Route of exposure	Species	Result
Severely refined mineral oil (C15 - C50) * - Not classified.	skin	Guinea pig	Not sensitizing
Severely refined mineral oil (C15 - C50) * - H304	skin	Guinea pig	Not sensitizing

#### **Conclusion/Summary** : Not available.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Severely refined mineral oil (C15 - C50) * - Not classified.	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
Severely refined mineral oil (C15 - C50) * - H304	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

#### **Conclusion/Summary**

## : Not available.

#### **Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified. Severely refined mineral oil	Negative - Dermal - TC Negative - Dermal - TC	Mouse - Female Mouse - Female		78 weeks 78 weeks
(C15 - C50) * - H304				

**Conclusion/Summary** : Not available.

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-
Severely refined mineral oil (C15 - C50) * - H304	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-
Conclusion/Summary	: Not availa	able.				

#### **Conclusion/Summary**

**Teratogenicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified. Severely refined mineral oil	Negative - Dermal Negative - Dermal	Rat	2000 mg/kg 2000 mg/kg	7 days per week 7 days per week
(C15 - C50) * - H304	litegaare Donnar		2000 mg/kg	r daye per week

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

Result

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## **SECTION 11: Toxicological information**

**Product/ingredient name** 

#### Aspiration hazard

FIUUUCU	ingreulent name		Result		
Severely refined mineral oil	ASPIRATI	ASPIRATION HAZARD - Category 1			
Information on the likely routes of exposure	: Not available.				
Potential acute health effect	<u>s</u>				
Eye contact	: No known significant effects	or critical hazar	ds.		
Inhalation	: No known significant effects	or critical hazar	ds.		
Skin contact	: Defatting to the skin. May c	ause skin drynes	s and irritation.		
Ingestion	: No known significant effects	or critical hazar	ds.		
Symptoms related to the ph	ysical, chemical and toxicolog	ical characteris	<u>tics</u>		
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: Adverse symptoms may inc irritation dryness cracking	lude the following	g:		
Ingestion	: No specific data.				
Delayed and immediate effe Short term exposure	cts and also chronic effects fro	om short and lo	ng term exposure		
Potential immediate	: Not available.				
effects					
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Potential chronic health ef	fects				
Product/ingredient name	Result	Species	Dose	Exposure	
Severely refined mineral oil (C15 - C50) * - Not classified.	Sub-acute LOAEL Oral	Rat - Male	125 mg/kg	13 weeks; 5 hours per day	
	Sub-chronic NOAEL Oral	Rat - Male, Female	≥2000 mg/kg	13 weeks; 5 days per week	
	Sub-acute NOAEL Inhalation	Rat - Male	>980 mg/m³	4 weeks; 5 days	
Severely refined mineral oil (C15 - C50) * - H304	Vapor Sub-acute LOAEL Oral	Rat - Male	125 mg/kg	per week 13 weeks; 5	
(C13 - C30) - H304	Sub-chronic NOAEL Oral	Rat - Male, Female	≥2000 mg/kg	hours per day 13 weeks; 5 days per week	
	Sub-acute NOAEL Inhalation Vapor	Rat - Male	>980 mg/m³	4 weeks; 5 days per week	
<b>Conclusion/Summary</b>	: Not available.				
General	: Prolonged or repeated conta or dermatitis.	act can defat the	skin and lead to irri	tation, cracking and/	
Carcinogenicity	: No known significant effects	or critical hazar	ds.		
Mutagenicity	: No known significant effects				
	•		<b>Reproductive toxicity</b> : No known significant effects or critical hazards.		

## **SECTION 11: Toxicological information**

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### 11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

1		Exposure
Acute NEL >100 mg/l Fresh water	Algae	72 hours
Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water Acute NEL >100 mg/l Fresh water	Daphnia - <i>Daphnia Magma</i> Fish - <i>Pimephales promelas</i> Daphnia - <i>Daphnia magna</i> Algae	48 hours 96 hours 21 days 72 hours
Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water	Daphnia - <i>Daphnia Magma</i> Fish - <i>Pimephales promelas</i> Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 21 days
	Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water Acute NEL >100 mg/l Fresh water Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water	Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water Acute NEL >100 mg/l Fresh waterDaphnia - Daphnia Magma Fish - Pimephales promelas Daphnia - Daphnia magna AlgaeAcute NEL >1000 mg/l Fresh water Acute NEL >10000 mg/l Fresh waterDaphnia - Daphnia Magma Fish - Daphnia magna Algae

Conclusion/Summary

#### 12.2 Persistence and degradability

Conclusion/Summary : Not available.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Severely refined mineral oil (C15 - C50) * - Not classified. Severely refined mineral oil (C15 - C50) * - H304		-	Inherent

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	1730	High

#### 12.4 Mobility in soil Soil/water partition : Not available. coefficient (Koc) Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **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).

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation				
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils				
Packaging					
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.				
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.				

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID 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.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: Not available. 14.7 Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorization
Annex XIV
None of the components are listed.
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
No listed substance
Other EU regulations         Industrial emissions       : Not listed         (integrated pollution         prevention and control) -         Air
Industrial emissions : Not listed (integrated pollution prevention and control) - Water
Explosive precursors : Not applicable.
Ozone depleting substances (1005/2009/EU)
Not listed.
Prior Informed Consent (PIC) (649/2012/EU) Not listed.
Persistent Organic Pollutants (1021/2019/EU) Not listed.
Seveso Directive
This product is not controlled under the Seveso Directive.
National regulations
<u>Germany</u>
Hazard class for water : 1 (WGK)
<u>Switzerland</u>
VOC content : Exempt.
International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.
Montreal Protocol Not listed.
Stockholm Convention on Persistent Organic Pollutants Not listed.
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.
Inventory list

## **SECTION 15: Regulatory information**

Australia	1	All components are listed or exempted.
Canada	1	All components are listed or exempted.
China	:	Not determined.
<b>Eurasian Economic Union</b>	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States of America	:	All components are active or exempted.
Viet Nam	:	Not determined.
5.2 Chemical Safety	:	Chemical Safety Assessments for all substances in this product are either Complete

Assessment

ompiete or Not applicable.

## **SECTION 16: Other information**

acronymsGoods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ASTM = American Society for Testing and Materials ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DIN = German Institute for Standardization	Indicates information that	t has changed from previously issued version.
DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EC = European Commission EC50 = Half maximal effective concentration EN = European Standard (Norm) EUH statement = CLP-specific Hazard statement GHS - Globally Harmonized System of Classification and Labeling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IC50 = Half maximal inhibitory concentration IMDG = International Maritime Dangerous Goods IMO = International Maritime Organisation ISO = International Maritime Organisation LC50 = Median lethal concentration LD50 = Median lethal concentration LD50 = Median lethal dose LOAEL / LOAEC = Lowest Observed Adverse Effect Level / Concentration MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration NOEL / NOAEC = No Observed Effect Level / Concentration OECD = Organisation for Economic Co-operation and Development OECD = Organisation for Economic Co-operation and Development OECD = Organisation for Economic Co-operation and Development OECD = Predicted No Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals	Abbreviations and	<ul> <li>INDN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ASTM = American Society for Testing and Materials</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>CAS = Chemical Abstracts Service</li> <li>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]</li> <li>DIN = German Institute for Standardization</li> <li>DMEL = Derived Minimal Effect Level</li> <li>DNEL = Derived No Effect Level</li> <li>EC = European Commission</li> <li>EC50 = Half maximal effective concentration</li> <li>EN = European Standard (Norm)</li> <li>EUH statement = CLP-specific Hazard statement</li> <li>GHS - Globally Harmonized System of Classification and Labeling of Chemicals IATA = International Air Transport Association</li> <li>IBC = Intermediate Bulk Container</li> <li>IC50 = Half maximal inhibitory concentration</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>IMO = International Maritime Dargerous Goods</li> <li>IMO = International Maritime Organisation</li> <li>ISO = International Maritime Organisation</li> <li>ISO = International Maritime Organisation</li> <li>ISO = International Convention for Standardization</li> <li>LOAEL / LOAEC = Lowest Observed Adverse Effect Level / Concentration</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>N/A = Not available</li> <li>NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration</li> <li>NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration</li> <li>NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration</li> <li>NOAEL / NOAEC = No Observed Effect Level / Concentration</li>     &lt;</ul>

### **SECTION 16: Other information**

Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods
by Rail
SDS = Safety Data Sheet
SVHC = Substances of Very High Concern
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value
TWA = Time Weighted Average
UFI = Unique Formula Identifier
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

#### Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Repr. 2	AQUATIC HAZARD (LONG-TERM) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 4 ASPIRATION HAZARD - Category 1 TOXIC TO REPRODUCTION - Category 2
Training advice	: Ensure operatives are trained to minimise exposures.
Date of printing	: 15-04-2024
Date of issue/ Date of revision	: 15-04-2024
Date of previous issue	: 30-09-2022
Version	: 1.13
Prepared by	: Kuwait Petroleum Research & Technology B.V., The Netherlands

#### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.