SAFETY DATA SHEET

Q8 Mahler R SAE 40



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Mahler R 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	: Q8 Danmark A/S Arne Jacobsens Allé 17 2300 København S, Danmark Tel.: +45 7012 4545 Email: produktteknik@Q8.dk Web: www.Q8.dk
Manufacturer / Distributor	 Kuwait Petroleum Belgium N.V./S.A. Petroleumkaai 7 B-2020 Antwerp Belgium I Q8Oils Italia S.r.I. Via Volpedo 2 15050 Castellar Guidobono (AL) Italy
e-mail address of person	
responsible for this SDS PCN Information contact	 SDSinfo@Q8.com, communication preferably in English only. PCNinfo@Q8.com, communication preferably in English only.
1.4 Emergency telephone nu	
Denmark	: +45 8988 2286 CARECHEM24
Europe	: +44 (0) 1235 239 670
Global (English only)	: +44 (0) 1865 407 333
National advisory body/Poi	
Denmark	: Bispebjerg Hospital - poison line : +45 8212 1212
SECTION 2: Hazards	identification
2.1 Classification of the subs	
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.
· · · · · · · · · · · · · · · · · · ·	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	
Date of issue/Date of revision	: 11-03-2025 Date of previous issue : 03-02-2020 Version : 1.05 1/21

SECTION 2: Hazards identification

Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. 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	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	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) * - H304	-	≥75 - ≤90	Asp. Tox. 1, H304	-	[1] [2]
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≤10	Not classified.	-	[2]
Phenol, dodecyl-, sulfurized, calcium salts	REACH #: 01-2119524018-47 EC: 272-486-4 CAS: 68855-45-8	≤3	Aquatic Chronic 4, H413	-	[1]
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	REACH #: 01-0000015551-76 01-2119878226-29 EC: 406-040-9 CAS: 125643-61-0	≤3	Aquatic Chronic 4, H413	-	[1]
Benzenesulfonic acid, methyl-, mono- C20-24-branched alkyl derivs., calcium salts	EC: 682-816-2 CAS: 722503-68-6	≤1	Skin Sens. 1B, H317	Skin Sens. 1, H317: C ≥ 2%	[1]
Phenol, dodecyl-, branched	REACH #: 01-2119513207-49 EC: 310-154-3	≤0.3	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F	M [Acute] = 10 M [Chronic] = 10	[1] [3] [4]
Date of issue/Date of revision	: 11-03-2025 Dat	e of previous is	sue : 03-02-2020	Version : 1.0	5 2/21

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SECTION 3: Composition/information on ingredients

CAS: 121158-58-5	Aquatic Acute 1, H400	
Index: 604-092-00-9	Aquatic Chronic 1,	
	H410	
	See Section 16 for	
	the full text of the H	
	statements declared	
	above.	

* Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25 CAS: 64742-55-8, EC: 265-158-7, EU REACH: 01-2119487077-29 CAS: 64742-56-9, EC: 265-159-2, EU REACH: 01-2119480132-48 CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27 CAS: 72623-87-1, EC: 276-738-4, EU REACH: 01-2119474889-13

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.

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern - Endocrine disrupting properties

[4] Substance with carcinogenic, mutagenic or reproductive toxicity properties

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	е	mmediately flush eyes with plenty of water, occasionally lifting the upper and lower cyclids. Check for and remove any contact lenses. Continue to rinse for at least 10 ninutes. Get medical attention.
Inhalation	lf a p a p	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 irrificial 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 dverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen ght clothing such as a collar, tie, belt or waistband.
Skin contact	F	Vash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Vash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	s d ir tł a n n	Vash out mouth with water. Remove dentures if any. If material has been wallowed and the exposed person is conscious, give small quantities of water to hrink. 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, he 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 inedical attention immediately. Maintain an open airway. Loosen tight clothing such is a collar, tie, belt or waistband.
Protection of first-aiders		lo action shall be taken involving any personal risk or without suitable training. It nay 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/symptoms		
Eye contact	: No specific data.	
Inhalation	: No specific data.	

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SECTION 4: First aid measures	
Skin contact	: Adverse symptoms may include the following:

Skill Contact	· Adverse symptoms may include the following.	
	irritation	
	dryness	
	cracking	
Ingestion	: No specific data.	
4.2 Indication of any in	nmediate medical attention and appeals treatment peeded	

4.3 Indication of any immediate 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

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: 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)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

chemical incidents.

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	r c	containment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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conforming to European standard EN 469 will provide a basic level of protection for

SECTION 6: Accidental release measures

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	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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 Industrial sector specific solutions

- : Not available.
- ecific : Not available.

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) * - H304	EU OEL (Europe) TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.
Severely refined mineral oil (C15 - C50) * - Not classified.	EU OEL (Europe) TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.

Biological exposure indices

No exposure indices known.

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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DNELs/DMELs

Product/ingredient name

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Result

DNEL - Workers - Long term - Dermal 0.006 mg/cm² Effects: Local

DNEL - General population - Long term - Oral 0.16 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Dermal 0.22 mg/kg bw/dav Effects: Systemic

DNEL - General population - Long term - Dermal 0.33 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation 0.74 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Dermal 1 mg/cm² Effects: Local

DNEL - Workers - Long term - Inhalation 2.33 mg/m³ Effects: Systemic

DNEL - General population - Short term - Dermal 8.33 mg/cm² Effects: Local

DNEL - Workers - Short term - Dermal 20 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral 50 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal 50 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation 875 mg/m³ Effects: Systemic

DNEL - Workers - Short term - Inhalation 1750 mg/m³

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SECTION 8: Exposure controls/personal protection

Effects: Systemic

Phenol, dodecyl-, branched

DNEL - General population - Long term - Oral 0.075 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 0.075 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 0.25 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 0.79 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Short term - Oral 1.26 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Inhalation 13.26 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 44.18 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Short term - Dermal 50 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Short term - Dermal 166 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures	
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		

SECTION 8: Exposure controls/personal protection

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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. Gas and combination filter cartridges should comply with the European standard EN14387.
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

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

Appearance			
Physical state	: Liquid. [Oily liquid.]		
Appearance	: Clear		
Color	: Brown		
Odor	: Slight		
Odor threshold	: Not available.		
Melting point/freezing point	: Not applicable.		
Pour point	: <-12°C (<10.4°F) [ASTM D 97]		
Boiling point or initial boiling point and boiling range	: >300°C (>572°F)		
Flammability	: Not applicable.		
Lower and upper explosion limit	: Not available.		
Flash point	: Open cup: 245°C (473°F) [ASTM D 92]		
Auto-ignition temperature	: >300°C (>572°F)		
Decomposition temperature	: >300°C		
рН	: Not applicable.		
Viscosity	: Kinematic (40°C (104°F)): 87.1 mm²/s (87.1 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 12.7 mm²/s (12.7 cSt) [ASTM D 445]		
Solubility	4 (A)		
Media	Result		
cold water hot water	Not soluble Not soluble		
Partition coefficient n-octanol/ water (log Pow)	: Not applicable.		
Vapor pressure	: <0.01 kPa (<0.075006 mm Hg)		
Density	: 0.858 g/cm³ [15°C (59°F)] [ASTM D 4052]		

SECTION 9: Physical and chemical properties	
Relative vapor density	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

9.2 Other information

9.2.1 Information with regard 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	1	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

1.1 Information on hazard classes as defined in Acute toxicity	
Product/ingredient name	Result
Severely refined mineral oil (C15 - C50) * - H304	Rabbit - Dermal - LD50 >5000 mg/kg
	Rat - Oral - LD50 >5000 mg/kg
	Rat - Male, Female - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] Acute Inhalation Toxicity
Severely refined mineral oil (C15 - C50) * - Not classified.	Rabbit - Dermal - LD50 >5000 mg/kg
	Rat - Oral - LD50 >5000 mg/kg
	Rat - Male, Female - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] Acute Inhalation Toxicity
reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Rat - Oral - LD50 >2000 mg/kg OECD 401

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SECTION 11: Toxicological information

Rat - Dermal - LD50 >2000 mg/kg OECD 402

Conclusion/Summary [Product] : 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) * - H304 Severely refined mineral oil (C15 - C50) * - Not classified.	N/A N/A	N/A N/A	N/A N/A	N/A N/A	5.53 5.53

Skin corrosion/irritation

Product/ingredient name

Severely refined mineral oil (C15 - C50) * - H304

Result

Rabbit - Skin - Erythema/EscharDuration of treatment/exposure: 72 hoursObservation period: 7 daysIrritation score: 0.17Fully reversible in 7 days or less

Rabbit - Skin - Edema

<u>Duration of treatment/exposure</u>: 72 hours <u>Observation period</u>: 7 days <u>Irritation score</u>: 0 Fully reversible in 7 days or less

Severely refined mineral oil (C15 - C50) * -Not classified.

Rabbit - Skin - Erythema/Eschar

<u>Duration of treatment/exposure</u>: 72 hours <u>Observation period</u>: 7 days <u>Irritation score</u>: 0.17 Fully reversible in 7 days or less

Rabbit - Skin - Edema

<u>Duration of treatment/exposure</u>: 72 hours <u>Observation period</u>: 7 days <u>Irritation score</u>: 0 Fully reversible in 7 days or less

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Severely refined mineral oil (C15 - C50) * - H304

Result

Rabbit - Eyes - Iris lesion

Acute Eye Irritation/Corrosion <u>Duration of treatment/exposure</u>: 48 hours <u>Observation period</u>: 72 hours <u>Irritation score</u>: 0 Fully reversible in 7 days or less

Rabbit - Eyes - Redness of the conjunctivae

Acute Eye Irritation/Corrosion <u>Duration of treatment/exposure</u>: 48 hours <u>Observation period</u>: 72 hours <u>Irritation score</u>: 0.33 Fully reversible in 7 days or less

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SECTION 11: Toxicological information

Severely refined mineral oil (C15 - C50) * -Not classified.

Rabbit - Eyes - Iris lesion

Acute Eye Irritation/Corrosion Duration of treatment/exposure: 48 hours Observation period: 72 hours Irritation score: 0 Fully reversible in 7 days or less

Rabbit - Eyes - Redness of the conjunctivae

Acute Eye Irritation/Corrosion Duration of treatment/exposure: 48 hours Observation period: 72 hours Irritation score: 0.33 Fully reversible in 7 days or less

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name Severely refined mineral oil (C15 - C50) * -H304

Severely refined mineral oil (C15 - C50) * -Not classified.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Product/ingredient name

Severely refined mineral oil (C15 - C50) * -H304

Result

Result

Guinea pig - skin

Skin Sensitization Result: Not sensitizing

Guinea pig - skin

Skin Sensitization Result: Not sensitizing

In vivo - Mammalian-Animal - Somatic - Intraperitoneal Mammalian Erythrocyte Micronucleus Test Result: Negative

Severely refined mineral oil (C15 - C50) * -Not classified.

In vivo - Mammalian-Animal - Somatic - Intraperitoneal Mammalian Erythrocyte Micronucleus Test **Result: Negative**

Conclusion/Summary [Product] : Not available.

Carcinogenicity **Product/ingredient name**

Result

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SECTION 11: Toxicological information

Severely refined mineral oil (C15 - C50) * - H304

Severely refined mineral oil (C15 - C50) * - Not classified.

Mouse - Female - Dermal - TC Carcinogenicity Studies

78 weeks <u>Result</u>: Negative

Mouse - Female - Dermal - TC

Carcinogenicity Studies 78 weeks <u>Result</u>: Negative

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Product/ingredient name

Severely refined mineral oil (C15 - C50) * - H304

Result

Rat - Male, Female - Oral Reproduction/Developmental Toxicity Screening Test 1000 mg/kg <u>Effects</u>: No effect level. <u>Maternal toxicity</u>: Negative <u>Fertility effects</u>: Negative <u>Developmental</u>: Negative

Severely refined mineral oil (C15 - C50) * - Not classified.

Rat - Male, Female - Oral

Reproduction/Developmental Toxicity Screening Test 1000 mg/kg <u>Effects</u>: No effect level. <u>Maternal toxicity</u>: Negative <u>Fertility effects</u>: Negative <u>Developmental</u>: Negative

Conclusion/Summary [Product] : Not available.

<u>Specific target organ toxicity (single exposure)</u> Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Product/ingredient name		Result
Severely refined mineral oil (C H304	15 - C50) * -	ASPIRATION HAZARD - Category 1
Information on the likely rout	<u>tes of exposure</u>	
Not available.		
Potential acute health effects	<u>5</u>	
Eye contact	: No known significa	nt effects or critical hazards.
Inhalation	: No known significa	nt effects or critical hazards.
Skin contact	: Defatting to the skin	n. May cause skin dryness and irritation.
Ingestion	: No known significa	nt effects or critical hazards.
Symptoms related to the phy	vsical, chemical and t	oxicological characteristics
Eye contact	: No specific data.	
Inhalation	: No specific data.	

SECTION 11: Toxico			
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	: No specific data		
	•	ic effects from short and long term exposure	
Short term exposure		<u> </u>	
Potential immediate effects	: Not available.		
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	
Severely refined mineral oil H304	(C15 - C50) * -	Sub-chronic - Rat - Male, Female - Oral - NOAEL Subchronic Dermal Toxicity: 90-day Study ≥2000 mg/kg [5 days per week] [13 weeks]	
		Sub-acute - Rat - Male - Oral - LOAEL Repeated Dose 90-Day Oral Toxicity Study in Rodents 125 mg/kg [5 hours per day] [13 weeks]	
		Sub-acute - Rat - Male - Inhalation - NOAEL >980 mg/m³ [5 days per week] [4 weeks]	
Severely refined mineral oil Not classified.	(C15 - C50) * -	Sub-chronic - Rat - Male, Female - Oral - NOAEL Subchronic Dermal Toxicity: 90-day Study ≥2000 mg/kg [5 days per week] [13 weeks]	
		Sub-acute - Rat - Male - Oral - LOAEL Repeated Dose 90-Day Oral Toxicity Study in Rodents 125 mg/kg [5 hours per day] [13 weeks]	
		Sub-acute - Rat - Male - Inhalation - NOAEL >980 mg/m³ [5 days per week] [4 weeks]	
Conclusion/Summary [P	roduct] : Not availa	ıble.	
General	: Prolonged or rep or dermatitis.	peated contact can defat the skin and lead to irritation, cracking and	
Carcinogenicity	: No known signif	icant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.		
Reproductive toxicity	: No known signif	icant effects or critical hazards.	
1.2 Information on other ha 11.2.1 Endocrine disruptin Not available.			
Conclusion/Summary [P	disrupting	uct does not meet the criteria to be considered as having endocrine properties according to the criteria set out in either Regulation (EC 2006 or Regulation (EC) No 1272/2008.	
11.2.2 Other information	INU. 1307/	2000 or regulation (LO) in relation.	

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

Severely refined mineral oil (C15 - C50) * - H304

Result

Acute - NEL - Fresh water Fish, Acute Toxicity Test Fish - *Pimephales promelas* ≥100 mg/l [96 hours]

Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction Test Daphnia - *Daphnia Magma* >10000 mg/l [48 hours]

Chronic - NEL - Fresh water

Daphnia Magna Reproduction Test Daphnia - *Daphnia magna* 10 mg/l [21 days] <u>Effect</u>: Reproduction

Acute - NEL - Fresh water

Alga, Growth Inhibition Test Algae >100 mg/l [72 hours] <u>Effect</u>: (growth rate)

Severely refined mineral oil (C15 - C50) * - Not classified.

Acute - NEL - Fresh water

Fish, Acute Toxicity Test Fish - *Pimephales promelas* ≥100 mg/l [96 hours]

Acute - NEL - Fresh water

Daphnia sp. Acute Immobilization Test and Reproduction Test Daphnia - *Daphnia Magma* >10000 mg/l [48 hours]

Chronic - NEL - Fresh water

Daphnia Magna Reproduction Test Daphnia - *Daphnia magna* 10 mg/l [21 days] <u>Effect</u>: Reproduction

Acute - NEL - Fresh water

Alga, Growth Inhibition Test Algae >100 mg/l [72 hours] <u>Effect</u>: (growth rate)

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

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

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Phenol, dodecyl-, sulfurized, calcium salts	10.1	2.2	Low
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	9.2	260	Low
1	6.1	1601	High

12.4 Mobility in soil Soil/Water partition coefficient

Not available.

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	vM
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Phenol, dodecyl-, sulfurized, calcium salts	No	No	No	No	No	No	No
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	No	No	No	No	No	No	No
Benzenesulfonic acid, methyl-, mono- C20-24-branched alkyl derivs., calcium salts	No	No	No	No	No	No	No
Phenol, dodecyl-, branched	No	No	No	No	No	No	No
Mobility	: Not ava	ailable.			I		

Conclusion/Summary

: The product does not meet the criteria to be considered as a PMT or vPvM.

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Phenol, dodecyl-, sulfurized, calcium salts	No	No	No	No	No	No	No
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	No	No	No	No	No	No	No
Benzenesulfonic acid, methyl-, mono- C20-24-branched alkyl derivs., calcium salts	No	No	No	No	No	No	No
Phenol, dodecyl-, branched	No	No	No	No	No	No	No

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

SECTION 12: Ecological information

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
Severely refined mineral oil (C15 - C50) * - H304	No	No	No	No	No	No	No
Severely refined mineral oil (C15 - C50) * - Not classified.	No	No	No	No	No	No	No
Phenol, dodecyl-, sulfurized, calcium salts	No	No	No	No	No	No	No
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	No	No	No	No	No	No	No
Benzenesulfonic acid, methyl-, mono- C20-24-branched alkyl derivs., calcium salts	No	No	No	No	No	No	No
Phenol, dodecyl-, branched	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]

: The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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, ge	mineral-based non-chlorinated engine, gear and lubricating oils				
Packaging	1					
Methods of disposal	: The generation of waste should be a packaging should be recycled. Incin when recycling is not feasible.					
Special precautions	: This material and its container must or liners may retain some product re runoff and contact with soil, waterwa	sidues. Avoid dispersa	al of spilled n			
Date of issue/Date of revision	: 11-03-2025 Date of previous issue	: 03-02-2020	Version	: 1.05	16/21	

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
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.

14.7 Maritime transport in : Not available. 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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	7/8/2021
Endocrine disrupting properties for human health	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	7/8/2021
Endocrine disrupting properties for environment	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	7/8/2021

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

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Explosive precursors	:	Not applicable.
Ozone depleting substanc	es	<u>(EU 2024/590)</u>
Not listed.		
Prior Informed Consent (P	IC)	(649/2012/EU)
Not listed.		
Persistent Organic Polluta Not listed.	nts	<u>s (1021/2019/EU)</u>
Seveso Directive		
This product is not controlled	d u	nder the Seveso Directive.
National regulations		
<u>Denmark</u>		
Product registration number	-	4066657
Fire class	1	IV-1
MAL-code	1	00-6
Protection based on MAL	-	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
		General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
		In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.
		MAL-code: 00-6 Application: When using scraper or knife, brush, roller etc. for pre- and post- treatments in a spray booth where the operator is outside the spray zone and when
		working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.
		type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and
		type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.
		type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. - Protective clothing must be worn.

SECTION 15: Regulatory information

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

		worn.		,	
		Caution The regulations contain other stipulations in addition to the	he abo	ve.	
		*See Regulations.			
<u>Germany</u> Hazard class for water (WGK)	:	1			
Switzerland VOC content International regulations Chemical Weapon Convention Not listed.		Exempt. List Schedules I, II & III Chemicals			
Montreal Protocol Not listed.					
Stockholm Convention on P Not listed.	<u>'er</u>	sistent Organic Pollutants			
Rotterdam Convention on P Not listed.	<u>rio</u>	r Informed Consent (PIC)			
UNECE Aarhus Protocol on Not listed.	<u>Р(</u>	DPs and Heavy Metals			
Inventory list					
Australia	:	All components are listed or exempted.			
Canada	:	All components are listed or exempted.			
China	:	Not determined.			
Eurasian Economic Union	:	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	:	Not determined.			
Republic of Korea	:	All components are listed or exempted.			
Taiwan		All components are listed or exempted.			
Thailand	;	Not determined.			
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SECTION 15: Regulatory information

Turkey	: Not determined.
United States of America	: All components are active or exempted.
Viet Nam	: Not determined.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information t	that has changed from previously issued version.
Abbreviations and	: ADN = European Provisions concerning the International Carriage of Dangerous
acronyms	Goods 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
	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 Organization for Standardization LC50 = 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 / NOEC = No Observed Effect Level / Concentration
	OECD = Organisation for Economic Co-operation and Development
	OEL = Occupational Exposure Limit
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	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 deriv	e the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

SECTION 16: Other information

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.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
Training advice	: Ensure operatives are trained to minimise exposures.
Date of printing	: 11-03-2025
Date of issue/ Date of	: 11-03-2025
revision	
Date of previous issue	e : 03-02-2020
Version	: 1.05
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.