

# SAFETY DATA SHEET

**LUCAS OIL**

## Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** : Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil  
**Viscosity or Type** : SAE 5W-20

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

**Material uses** : Lubricating oil for automotive engines

#### 1.3 Details of the supplier of the safety data sheet

<b>Manufacturer / Distributor</b> : Lucas Oil Products UK (GB) Unit 4 Cunliffe Drive Llangefni Industrial Estate LL77 7JA Llangefni Great Britain Tel. +44 (0) 1248 723 666 email: info@LucasOil.co.uk web: www.lucasoil.co.uk	/ Lucas Oil Products Europe Ltd  Block 3 Harcourt Centre Dublin 2 Ireland  Tel. +44 344 225 5400 email: info@LucasOil.eu.com web: www.lucasoil.eu.com
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#### 1.4 Emergency telephone number

**Telephone number** : ChemTel:  
+1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)  
+1-813-248-0585 (International)

#### National advisory body/Poison Centre

**Ireland** : NPIC Beaumont Hospital (8am-10pm, 7 days a week)  
Telephone Number: +353 (0)1 809 2166

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified 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 detailed 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

**General** : P103 - Read label before use.  
P102 - Keep out of reach of children.  
P101 - If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable.

**Response** : Not applicable.

## SECTION 2: Hazards identification

- Storage** : Not applicable.
- Disposal** : Not applicable.
- Supplemental label elements** : EUH208 - Contains C14-16-18 Alkyl Phenol, Molybdenum polysulphide long chain alkyl dithiocarbamate complex and maleic anhydride. May produce an allergic reaction.  
EUH210 - 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 requirements**
- 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.
- Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to Regulation (EC) No. 1907/2006.
- 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	Type
Severely refined mineral oil (C15 - C50) * - H304	-	≥75 - ≤90	Asp. Tox. 1, H304	-	[1] [2]
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≥10 - ≤25	Not classified.	-	[2]
Distillates (petroleum), solvent-dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9	≤3	Asp. Tox. 1, H304	-	[1] [2]
C14-16-18 Alkyl Phenol	REACH #: 01-2119498288-19 EC: 931-468-2	≤3	Skin Sens. 1B, H317 STOT RE 2, H373 (liver)	Skin Sens. 1, H317: C ≥ 10%	[1]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≤3	Asp. Tox. 1, H304	-	[1] [2]

### SECTION 3: Composition/information on ingredients

Distillates (petroleum), solvent-dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≤3	Asp. Tox. 1, H304	-	[1] [2]
bis(nonylphenyl)amine	EC: 701-385-4 CAS: 36878-20-3	<3	Repr. 2, H361f Aquatic Chronic 3, H412	-	[1]
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	REACH #: 01-0000019337-66 EC: 457-320-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	<0.001	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (inhalation) EUH071 <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]

Contains one or more of the following:

CAS: 72623-87-1, EC: 276-738-4, EU REACH: 01-2119474889-13  
 CAS: 64741-89-5, EC: 265-091-3, EU REACH: 01-2119487067-30  
 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

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

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### Eye contact

: 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.

## SECTION 4: First aid measures

- 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised 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/symptoms

- 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 immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 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 from 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  
nitrogen oxides  
sulfur oxides

## SECTION 5: Firefighting measures

### 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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 spilt 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 material for 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.
- 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

## SECTION 7: Handling and storage

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 unlabelled 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.

**Industrial sector specific solutions** : 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	<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) * - 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.
Distillates (petroleum), solvent-dewaxed light paraffinic	<b>NAOSH (Ireland, 4/2024) [Mineral oil, pure, highly &amp; severely refined]</b> Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 5 ppm. Form: inhalable dust.
Distillates (petroleum), hydrotreated heavy paraffinic	<b>NAOSH (Ireland, 4/2024) [Mineral oil, pure, highly &amp; severely refined]</b> Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 5 ppm. Form: inhalable dust.
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>NAOSH (Ireland, 4/2024) [Mineral oil, pure, highly &amp; severely refined]</b> Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 5 ppm. Form: inhalable dust.
Distillates (petroleum), hydrotreated light paraffinic	<b>EU OEL (Europe)</b> TWA: 5 mg/m <sup>3</sup> . <b>NAOSH (Ireland, 4/2024) [Mineral oil, pure, highly &amp; severely refined]</b> Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 5 ppm. Form: inhalable dust.
maleic anhydride	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m <sup>3</sup> . STEL 15 minutes: 10 mg/m <sup>3</sup> . <b>NAOSH (Ireland, 4/2024)</b> Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.01 ppm. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases..

#### 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.

### DNELs/DMELs

#### **Product/ingredient name**

Distillates (petroleum), solvent-dewaxed light paraffinic

#### **Result**

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>

Effects: Local

C14-16-18 Alkyl Phenol

**DNEL - Workers - Long term - Dermal**

0.3 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

1.17 mg/m<sup>3</sup>

Effects: Systemic

Distillates (petroleum), hydrotreated heavy paraffinic

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>

Effects: Local

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day

## SECTION 8: Exposure controls/personal protection

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>

Effects: Local

Distillates (petroleum), hydrotreated light paraffinic

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day

Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>

Effects: Local

maleic anhydride

**DNEL - General population - Long term - Inhalation**

0.05 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Long term - Oral**

0.06 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Long term - Inhalation**

0.08 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

0.081 mg/m<sup>3</sup>

Effects: Local

**DNEL - Workers - Long term - Inhalation**

0.081 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - General population - Short term - Oral**

0.1 mg/kg bw/day

Effects: Systemic

**DNEL - General population - Short term - Dermal**

## SECTION 8: Exposure controls/personal protection

0.1 mg/kg bw/day

Effects: Systemic

### **DNEL - General population - Long term - Dermal**

0.1 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Short term - Dermal**

0.2 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Long term - Dermal**

0.2 mg/kg bw/day

Effects: Systemic

### **DNEL - Workers - Short term - Inhalation**

0.2 mg/m<sup>3</sup>

Effects: Local

### **DNEL - Workers - Short term - Inhalation**

0.2 mg/m<sup>3</sup>

Effects: 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 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.

## SECTION 8: Exposure controls/personal protection

- 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
- Colour** : Amber
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not applicable.
- Pour point** : <-30°C (<-22°F) [ASTM D 97]
- Boiling point or initial boiling point and boiling range** : >230°C (>446°F)
- Flammability** : Not applicable.
- Lower and upper explosion limit** : Not available.
- Flash point** : Open cup: >200°C (>392°F) [ASTM D 92]
- Auto-ignition temperature** : >300°C (>572°F)
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Kinematic (40°C (104°F)): 44.2 mm<sup>2</sup>/s (44.2 cSt) [ASTM D 445]  
Kinematic (100°C (212°F)): 8.2 mm<sup>2</sup>/s (8.2 cSt) [ASTM D 445]
- Solubility** :

Media	Result
Water	Not soluble

**Partition coefficient n-octanol/water (log Pow)** : Not applicable.

**Vapour pressure** : <0.01 kPa (<0.075006 mm Hg)

**Density** : 0.85 g/cm<sup>3</sup> [15°C (59°F)] [ASTM D 4052]

**Relative vapour 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.

**Oxidising properties** : Not applicable.

#### 9.2.2 Other safety characteristics

Lucas Oil Synthetic 5W-20 ECO-FD Engine Oil

## SECTION 9: Physical and chemical properties

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 oxidising 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

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

##### Result

**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

Distillates (petroleum), solvent-dewaxed light paraffinic

**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

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**Rabbit - Dermal - LD50**  
>5000 mg/kg

**Rat - Oral - LD50**  
>5000 mg/kg

## SECTION 11: Toxicological information

Distillates (petroleum), hydrotreated light paraffinic	<p><b>Rat - Male, Female - Inhalation - LC50 Dusts and mists</b> 5.53 mg/l [4 hours] Acute Inhalation Toxicity</p> <p><b>Rat - Male, Female - Oral - LD50</b> &gt;5000 mg/kg</p> <p><b>Rabbit - Male, Female - Dermal - LD50</b> &gt;5000 mg/kg Acute Dermal Toxicity</p> <p><b>Rat - Inhalation - LC50 Dusts and mists</b> 3900 mg/m<sup>3</sup> [4 hours] <u>Toxic effects:</u> Behavioral - Tremor Lung, Thorax, or Respiration - Dyspnea Kidney, Ureter, and Bladder - Urine volume increased</p>
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	<p><b>Rat - Female - Oral - LD50</b> &gt;2000 mg/kg OECD 425</p> <p><b>Rat - Male, Female - Dermal - LD50</b> &gt;2000 mg/kg OECD 402</p>
maleic anhydride	<p><b>Rat - Oral - LD50</b> 400 mg/kg</p> <p><b>Rabbit - Dermal - LD50</b> 2620 mg/kg</p>

**Conclusion/Summary [Product]** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Severely refined mineral oil (C15 - C50) * - H304	N/A	N/A	N/A	N/A	5.53
Severely refined mineral oil (C15 - C50) * - Not classified.	N/A	N/A	N/A	N/A	5.53
Distillates (petroleum), solvent-dewaxed light paraffinic	N/A	N/A	N/A	N/A	5.53
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/A	N/A	N/A	N/A	5.53
maleic anhydride	400	2620	N/A	N/A	N/A

### Skin corrosion/irritation

#### Product/ingredient name

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

#### Result

##### Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

##### Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

## SECTION 11: Toxicological information

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

### Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

### Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

Distillates (petroleum), solvent-dewaxed light  
paraffinic

### Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

### Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

Distillates (petroleum), solvent-dewaxed  
heavy paraffinic

### Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

### Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0

Fully reversible in 7 days or less

Distillates (petroleum), hydrotreated light  
paraffinic

### Rabbit - Skin - Erythema/Eschar

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 0.17

Fully reversible in 7 days or less

### Rabbit - Skin - Oedema

Duration of treatment/exposure: 72 hours

Observation period: 7 days

Irritation score: 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

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**

## SECTION 11: Toxicological information

	<p>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</p>
Severely refined mineral oil (C15 - C50) * - Not classified.	<p><b>Rabbit - Eyes - Iris lesion</b> 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</p> <p><b>Rabbit - Eyes - Redness of the conjunctivae</b> 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</p>
Distillates (petroleum), solvent-dewaxed light paraffinic	<p><b>Rabbit - Eyes - Iris lesion</b> 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</p> <p><b>Rabbit - Eyes - Redness of the conjunctivae</b> 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</p>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<p><b>Rabbit - Eyes - Iris lesion</b> 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</p> <p><b>Rabbit - Eyes - Redness of the conjunctivae</b> 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</p>
Distillates (petroleum), hydrotreated light paraffinic	<p><b>Rabbit - Eyes - Iris lesion</b> 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</p> <p><b>Rabbit - Eyes - Redness of the conjunctivae</b> 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</p>

## SECTION 11: Toxicological information

maleic anhydride

**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 1 %

**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

#### **Result**

**Guinea pig - skin**

Skin Sensitization

Result: Not sensitizing

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

**Guinea pig - skin**

Skin Sensitization

Result: Not sensitizing

Distillates (petroleum), solvent-dewaxed light paraffinic

**Guinea pig - skin**

Skin Sensitization

Result: Not sensitizing

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**Guinea pig - skin**

Skin Sensitization

Result: Not sensitizing

Distillates (petroleum), hydrotreated light paraffinic

**Guinea pig - skin**

Skin Sensitization

Result: Not sensitizing

### **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**

**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

Distillates (petroleum), solvent-dewaxed light paraffinic

**In vivo - Mammalian-Animal - Somatic - Intraperitoneal**

Mammalian Erythrocyte Micronucleus Test

Result: Negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**In vivo - Mammalian-Animal - Somatic - Intraperitoneal**

Mammalian Erythrocyte Micronucleus Test

Result: Negative

Distillates (petroleum), hydrotreated light paraffinic

**In vivo - Mammalian-Animal - Somatic - Intraperitoneal**

Mammalian Erythrocyte Micronucleus Test

## SECTION 11: Toxicological information

Result: Negative

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

#### Product/ingredient name

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

#### Result

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

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

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

Distillates (petroleum), solvent-dewaxed light paraffinic

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: Negative

Distillates (petroleum), hydrotreated light paraffinic

**Mouse - Female - Dermal - TC**  
Carcinogenicity Studies  
78 weeks  
Result: 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  
Effects: No effect level.  
Maternal toxicity: Negative  
Fertility effects: Negative  
Developmental: Negative

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

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

Distillates (petroleum), solvent-dewaxed light paraffinic

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

Distillates (petroleum), solvent-dewaxed

**Rat - Male, Female - Oral**

## SECTION 11: Toxicological information

heavy paraffinic

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

Distillates (petroleum), hydrotreated light paraffinic

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

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

#### **Product/ingredient name**

C14-16-18 Alkyl Phenol  
maleic anhydride

#### **Result**

STOT RE 2, H373 (liver)  
STOT RE 1, H372 (inhalation)

### Aspiration hazard

#### **Product/ingredient name**

Severely refined mineral oil (C15 - C50) \* - H304  
Distillates (petroleum), solvent-dewaxed light paraffinic  
Distillates (petroleum), hydrotreated heavy paraffinic  
Distillates (petroleum), solvent-dewaxed heavy paraffinic  
Distillates (petroleum), hydrotreated light paraffinic

#### **Result**

ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1  
ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Defatting to the skin. May cause skin dryness and irritation.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

## SECTION 11: Toxicological information

**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 effects

#### Product/ingredient name

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

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

Distillates (petroleum), solvent-dewaxed light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

#### **Result**

##### **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/m<sup>3</sup> [5 days per week] [4 weeks]

##### **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/m<sup>3</sup> [5 days per week] [4 weeks]

##### **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/m<sup>3</sup> [5 days per week] [4 weeks]

##### **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/m<sup>3</sup> [5 days per week] [4 weeks]

##### **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]

## SECTION 11: Toxicological information

### Sub-acute - Rat - Male - Inhalation - NOAEL

>980 mg/m<sup>3</sup> [5 days per week] [4 weeks]

**Conclusion/Summary [Product]** : Not available.

**General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

No specific test data available for this product or its ingredients.

**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.

#### 11.2.2 Other information

Not available.

## 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]  
Effect: Reproduction

##### Acute - NEL - Fresh water

Alga, Growth Inhibition Test  
Algae  
>100 mg/l [72 hours]  
Effect: (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]  
Effect: Reproduction

## SECTION 12: Ecological information

### Acute - NEL - Fresh water

Alga, Growth Inhibition Test

Algae

>100 mg/l [72 hours]

Effect: (growth rate)

maleic anhydride

### Acute - LC50 - Fresh water

Fish - Western mosquitofish - *Gambusia affinis* - Adult

230 ppm [96 hours]

Effect: Mortality

**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
Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	Inherent
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	Inherent
Distillates (petroleum), hydrotreated light paraffinic	-	-	Inherent

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Distillates (petroleum), solvent-dewaxed light paraffinic	>3	-	Low
Distillates (petroleum), solvent-dewaxed heavy paraffinic	>3	-	Low
Distillates (petroleum), hydrotreated light paraffinic	>3	-	Low
bis(nonylphenyl)amine	3.64 to 7.02	1730 [METI guideline (concentration test on chemical substances in fish)]	High
maleic anhydride	-2.78	-	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
maleic anhydride	1.1	11.4841

#### Results of PMT and vPvM assessment

## SECTION 12: Ecological information

Product/ingredient name	PMT	P	M	T	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
Distillates (petroleum), solvent-dewaxed light paraffinic	No	No	No	No	No	No	No
C14-16-18 Alkyl Phenol	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated heavy paraffinic	No	No	No	No	No	No	No
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated light paraffinic	No	No	No	No	No	No	No
bis(nonylphenyl)amine	No	No	No	No	No	No	No
Molybdenum polysulphide	No	No	No	No	No	No	No
long chain alkyl dithiocarbamate complex	No	No	No	No	No	No	No
maleic anhydride	No	No	No	No	No	No	No

**Mobility** : Not available.

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

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Severely refined mineral oil (C15 - C50) * - H304	No	N/A	N/A	No	N/A	N/A	N/A
Severely refined mineral oil (C15 - C50) * - Not classified.	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
C14-16-18 Alkyl Phenol	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
bis(nonylphenyl)amine	No	N/A	No	Yes	No	N/A	No
Molybdenum polysulphide	No	N/A	N/A	No	N/A	N/A	N/A
long chain alkyl dithiocarbamate complex	No	N/A	N/A	No	N/A	N/A	N/A
maleic anhydride	N/A	N/A	N/A	Yes	N/A	N/A	N/A

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

## SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	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
Distillates (petroleum), solvent-dewaxed light paraffinic	No	No	No	No	No	No	No
C14-16-18 Alkyl Phenol	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated heavy paraffinic	No	No	No	No	No	No	No
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	No	No	No	No	No	No
Distillates (petroleum), hydrotreated light paraffinic	No	No	No	No	No	No	No
bis(nonylphenyl)amine	No	No	No	No	No	No	No
Molybdenum polysulphide	No	No	No	No	No	No	No
long chain alkyl dithiocarbamate complex	No	No	No	No	No	No	No
maleic anhydride	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

No specific test data available for this product or its ingredients.

**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 minimised 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

## SECTION 13: Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## 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.

**14.6 Special precautions for user** : **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 bulk according to IMO instruments** : Not available.

## 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 authorisation

###### 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 (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

## SECTION 15: Regulatory information

**Explosive precursors** : Not applicable.

### Ozone depleting substances (EU 2024/590)

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

#### Germany

**Hazard class for water (WGK)** : 1

#### Switzerland

**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

**Australia** : Not determined.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**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** : 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.

**15.2 Chemical safety assessment** : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous 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 Harmonised System of Classification and Labelling 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 derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

### Full text of abbreviated H statements

## SECTION 16: Other information

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### [Full text of classifications \[CLP/GHS\]](#)

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

**Training advice** : Ensure operatives are trained to minimise exposures.

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### [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 fulfil 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.