# SAFETY DATA SHEET

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

# QUARTZ 9000 5W-40

**SDS # :** 082742

**previous revision date** : 2022/10/11

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

### 1.1 Product identifier

**Product name** : QUARTZ 9000 5W-40

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

| Identified uses |
|---|
| Motor oil |

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

TotalEnergies Lubrifiants
562 Avenue du Parc de L'ile
92029 Nanterre Cedex FRANCE
Tél: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

rm.msds-lubs@totalenergies.com

TotalEnergies Marketing Romania SA
Str. Stejarilor, nr. 2, Cristian,
Brasov, 507055
Tel: 00 40 268 40 17 11
Fax: 00 40 268 40 17 26

fds-romania@totalenergies.com

**Contact**

H.S.E

### 1.4 Emergency telephone number

**National advisory body/Poison Center**

**Telephone number** : Romania
Emergency Clinical Hospital Bucharest (non-stop, 24 h/7d): 021 5992300, int. 182, 444, 213, 455
Other bodies responsible for receiving health information:
Targu Mures County Emergency Clinical Hospital Direct phone: 0265 210 110
Central Telephone (non-stop, 24 h/7z): 0372 653 100; 0372 683 700; 0265 212 111
Other institutions (child poisoning): Grigore Alexandrescu Children's Hospital, Bucharest TOXAPEL Telephone (24h/24h): 021 2106282; 021 2106183
Moldavia
Serviciul Naţional Unic Pentru Apelurile de Urgenţă: 112

**Supplier**

**Telephone number** : Emergency phone: +44 1235 239670

## 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.

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**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Contains C14-16-18 Alkyl phenol and Molybdenum polysulphide long chain alkyl dithiocarbamate complex. 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.

Not applicable.

### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.
This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

**Other hazards which do not result in classification** : Hazard of slipping on spilled product.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/substance | Identifiers | % (w/w) | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #: 01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7<br>Index: 649-467-00-8 | ≥25 - ≤50 | Asp. Tox. 1, H304 | - | [1] [2] |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | REACH #: 01-2119474889-13<br>EC: 276-738-4<br>CAS: 72623-87-1 | ≤5 | Asp. Tox. 1, H304 | - | [1] [2] |

| | | | | | |
|---|---|---|---|---|---|
| | Index: 649-483-00-5 | | | | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | REACH #: 01-2119471299-27<br>EC: 265-169-7<br>CAS: 64742-65-0<br>Index: 649-474-00-6 | ≤3 | Asp. Tox. 1, H304 | - | [1] [2] |
| Distillates (petroleum), solvent-dewaxed light paraffinic | REACH #: 01-2119480132-48<br>EC: 265-159-2<br>CAS: 64742-56-9<br>Index: 649-469-00-9 | ≤3 | Asp. Tox. 1, H304 | - | [1] [2] |
| C14-16-18 Alkyl phenol | REACH #: 01-2119498288-19<br>EC: 931-468-2 | ≤3 | Skin Sens. 1B, H317<br>STOT RE 2, H373 | - | [1] |
| Paraffin oils (petroleum), catalytic dewaxed heavy | REACH #: 01-2119487080-42<br>EC: 265-174-4<br>CAS: 64742-70-7 | ≤3 | Asp. Tox. 1, H304 | - | [1] [2] |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | REACH #: 01-2119953278-28<br>EC: 249-109-7<br>CAS: 28629-66-5 | <2.5 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 | Eye Dam. 1, H318: C ≥ 15% | [1] |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | REACH #: 01-0000019337-66<br>EC: 457-320-2 | ≤0.3 | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412<br>**See Section 16 for the full text of the H statements declared above.** | - | [1] |

**Additional information** : Mineral oil of petroleum origin. Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

| | | |
|---|---|---|
| **Ingestion** | : | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| **Protection of first-aiders** | : | No action shall be taken involving any personal risk or without suitable training. |

### 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:<br>irritation<br>dryness<br>cracking |
| **Ingestion** | : | No specific data. |

### 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, $CO_2$, water spray (fog) or foam. |
| **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** | : | carbon monoxide<br>carbon dioxide<br>phosphorus oxides<br>sulfur oxides<br>Hydrogen sulfide<br>Mercaptans<br>Zinc oxides<br>Amines |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| **Special protective actions for fire-fighters** | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| **Special protective equipment for fire-fighters** | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor.

### 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

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

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

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

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

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

| Product/substance | Exposure limit values |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | **HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). []**<br>VLA: 5 mg/m³ 8 hours.<br>Short term: 10 mg/m³ 15 minutes. |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | **HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). []**<br>VLA: 5 mg/m³ 8 hours.<br>Short term: 10 mg/m³ 15 minutes. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | **HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). []**<br>VLA: 5 mg/m³ 8 hours.<br>Short term: 10 mg/m³ 15 minutes. |
| Distillates (petroleum), solvent-dewaxed light paraffinic | **HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). []**<br>VLA: 5 mg/m³ 8 hours.<br>Short term: 10 mg/m³ 15 minutes. |
| Paraffin oils (petroleum), catalytic dewaxed heavy | **HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). []**<br>VLA: 5 mg/m³ 8 hours.<br>Short term: 10 mg/m³ 15 minutes. |

**Reportable hazardous constituent(s) contained in UVCB and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)**

No exposure limit value known.

**Biological Limit Values (BLV)**

No exposure indices known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

**Advisory OEL** : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

**DNELs/DMELs**

| Product/substance | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | DNEL | Long term Oral | 0.74 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 0.74 mg/ kg bw/day | General population | Local |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 0.97 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Oral | 0.74 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Oral | 740 µg/kg | General population | Systemic |
| | DNEL | Long term Dermal | 970 µg/kg | Workers | Systemic |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Oral | 0.74 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| Distillates (petroleum), solvent-dewaxed light paraffinic | DNEL | Long term Oral | 0.74 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| C14-16-18 Alkyl phenol | DNEL | Long term Inhalation | 1.17 mg/m³ | Workers | Systemic |

| | | | | | |
|---|---|---|---|---|---|
| | DNEL | Long term Dermal | 0.3 mg/kg bw/day | Workers | Systemic |
| Paraffin oils (petroleum), catalytic dewaxed heavy | DNEL | Long term Oral | 0.74 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.97 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 5.58 mg/m³ | Workers | Local |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | DNEL | Long term Oral | 0.19 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 1.61 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 4.65 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 6.55 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 9.29 mg/kg bw/day | Workers | Systemic |

**PNECs**

| Product/ingredient name | Compartment Detail | Name | Method Detail |
|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | Secondary Poisoning | 9.33 mg/kg | - |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Secondary Poisoning | 9.33 mg/kg | - |
| C14-16-18 Alkyl phenol | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |
| | Fresh water sediment | 4266.16 mg/kg dwt | - |
| | Marine water sediment | 426.62 mg/kg dwt | - |
| | Soil | 852.58 mg/kg dwt | - |
| | Sewage Treatment Plant | 100 mg/l | - |
| zinc bis(O,O-diisooctyl) bis(dithiophosphate) | Fresh water | 0.004 mg/l | - |
| | Marine water | 0.0046 mg/l | - |
| | Fresh water sediment | 0.21 mg/kg dwt | - |
| | Marine water sediment | 0.021 mg/kg dwt | - |
| | Soil | 0.04 mg/kg dwt | - |
| | Sewage Treatment Plant | 3 mg/l | - |

### 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.EN 166

**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.
Hydrocarbon-proof gloves
nitrile rubber
Fluorinated rubber
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

**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.

**Respiratory protection** : None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).

**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 (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated**

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | | |
|---|---|---|
| **Physical state** | : Liquid. [limpid] | |
| **Color** | : Yellow. | |
| **Odor** | : Characteristic. | |
| **pH** | : Not applicable. | Product is non-soluble (in water). |
| **Melting point/freezing point** | : Technically not possible to measure | |
| **Initial boiling point and boiling range** | : >316°C [EN ISO 3405] | |
| **Flash point** | : Open cup: 230°C [ASTM D 92] | |
| **Flammability** | : Not applicable. | |
| **Lower and upper explosion limit** | : Lower: 0.9%<br>Upper: 7% | |
| **Vapor pressure** | : <0.013 kPa [room temperature]<br>Not applicable. [50°C] | |
| **Vapor density** | : >2 [Air = 1] | |
| **Relative density** | : 0.855 [ISO 12185] | |

**Density** : 0.855 g/cm³ [15°C] [ISO 12185]

**Solubility(ies)** :

| Media | Result |
|---|---|
| water | Not soluble |

**Miscible with water** : No.

**Partition coefficient: n-octanol/ water** : Not applicable.

**Auto-ignition temperature** : >230°C [ASTM E 659]

**Decomposition temperature** : Not applicable.

**Viscosity** : Kinematic (40°C): 90 $mm^2/s$ [ASTM D 445]

**Particle characteristics**

**Median particle size** : Not applicable.

**9.2 Other information**

**Pour point** : -35°C (-31°F)

## 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** : Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5 Incompatible materials** : Strong oxidizing agents

**10.6 Hazardous decomposition products** : carbon monoxide
carbon dioxide
phosphorus oxides
sulfur oxides
Hydrogen sulfide
Mercaptans
Zinc oxides
Amines

## SECTION 11: Toxicological information

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

**Acute toxicity**

| Product/substance | Result | Species | Dose | Exposure | Test |
|---|---|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | LC50 Inhalation Dusts and mists | Rat - Male, Female | >5 mg/l | 4 hours | OECD 403 Read across |
| | LD50 Dermal | Rabbit - Male, Female | >5000 mg/kg | - | OECD 402 Read across |
| | LD50 Oral | Rat - Male, Female | >5000 mg/kg | - | OECD 401 Read across |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal | Rabbit - Male, Female | >5000 mg/kg | - | OECD 402 Read across |
| | LD50 Oral | Rat - Male, Female | >5000 mg/kg | - | OECD 401 Read across |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 420 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 401 |
| C14-16-18 Alkyl phenol | LD50 Dermal | Rat | 2000 mg/kg | - | - |
| | LD50 Oral | Rat | 2000 mg/kg | - | - |
| Paraffin oils (petroleum), catalytic dewaxed heavy | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | - |
| | LC50 Inhalation Vapor | Rat | 80.4 mg/l | 1 hours | - |
| | LC50 Inhalation Vapor | Rat | 20.1 mg/l | 4 hours | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | - |
| | LD50 Oral | Rat | >5000 mg/kg | - | - |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | - |
| | LC50 Inhalation Vapor | Rat | 80.4 mg/l | 1 hours | - |
| | LC50 Inhalation Vapor | Rat | 20.1 mg/l | 4 hours | - |
| | LD50 Dermal | Rat | 3001 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | 3750 mg/kg | - | OECD 401 |

**Acute toxicity estimates**

| Product/substance | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | N/A | N/A | N/A | N/A | 5.1 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | N/A | N/A | N/A | 20.1 | 5.1 |
| zinc bis(O,O-diisooctyl) bis(dithiophosphate) | 3750 | 3001 | N/A | 20.1 | 5.1 |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Irritation/Corrosion**

**Conclusion/Summary**

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

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

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

**Sensitization**

**Conclusion/Summary**

**Skin** : Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required Contains sensitizer. May produce an allergic reaction.

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

**Mutagenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Teratogenicity**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

| Product/substance | Category | Route of exposure | Target organs |
|---|---|---|---|
| C14-16-18 Alkyl phenol | Category 2 | - | - |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Aspiration hazard**

| Product/substance | Result |
|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | ASPIRATION HAZARD - Category 1 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | ASPIRATION HAZARD - Category 1 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | ASPIRATION HAZARD - Category 1 |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Information on the 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 and also chronic effects from short and long term exposure**

**Short term exposure**

**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**

Not available.

**Conclusion/Summary** : Not available.

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

**Carcinogenicity** : During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

**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

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/substance | Result | Species | Exposure | Test |
|---|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | Acute EC50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Acute EC50 >10000 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Chronic NOEL >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia magna | 21 days | - |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | Acute EL50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 48 hours | OECD 201 |
| | Acute EL50 >10000 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute LL50 >100 mg/l | Fish - Pimephales promelas | 96 hours | OECD 203 |
| | Chronic NOEL >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |

| | | | | |
|---|---|---|---|---|
| | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia magna | 21 days | OECD 211 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Acute EL50 >10000 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute LL50 >1000 mg/l | Fish - Oncorhynchus mykiss | 96 hours | OECD 203 |
| | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia magna | 21 days | OECD 211 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | Acute EL50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Acute EL50 10000 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute EL50 ≥100 mg/l | Fish - Pimephales promelas | 96 hours | OECD 203 |
| | Chronic NOEL >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia magna | 21 days | OECD 211 |
| C14-16-18 Alkyl phenol | Acute EC50 >100 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | Acute EC50 10000 mg/l | Daphnia | 48 hours | - |
| | Acute NOEL 101 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | - |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | Acute EC50 1 to 1.5 mg/l | Daphnia | 48 hours | OECD 202 |
| | Acute LC50 10 mg/l | Fish | 96 hours | - |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | Acute EC50 9.6 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |
| | Acute EC50 50 mg/l | Crustaceans - Daphnia magna | 48 hours | OECD 202 |
| | Acute LC50 94.8 mg/l | Fish - Oncorhynchus mykiss | 96 hours | OECD 203 |
| | Chronic NOEC 4.1 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | OECD 201 |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/substance | Test | Result | Dose | Inoculum |
|---|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F | 31 % - Not readily - 28 days | - | Activated sludge |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD 301F | 31 % - Not readily - 28 days | - | Activated sludge |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD 301F | 31 % - Not readily - 28 days | - | Activated sludge |
| Distillates (petroleum), solvent-dewaxed light paraffinic | OECD 301F | 31 % - Not readily - 28 days | - | Activated sludge |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | OECD 301B | 0 % - Not readily - 28 days | - | Activated sludge |

**Conclusion/Summary** : Not available.

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | - | - | Not readily |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed light paraffinic | - | - | Not readily |
| Paraffin oils (petroleum), catalytic dewaxed heavy | - | - | Not readily |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | - | - | Not readily |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | - | - | Not readily |

### 12.3 Bioaccumulative potential

| Product/substance | $LogK_{ow}$ | BCF | Potential |
|---|---|---|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | >4 | - | High |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 9.2 | 260 | Low |
| Distillates (petroleum), solvent-dewaxed light paraffinic | 3.1 | - | Low |
| zinc bis(O,O-diisooctyl) bis (dithiophosphate) | 2.9 | - | Low |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | >5.1 | 88 | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

**Mobility in soil** : Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water Loss by evaporation is limited

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

### 12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 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.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: 13 02 05*

**Packaging**

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

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ICAO/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 authorization**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

**Other EU regulations**

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

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

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

**Explosive precursors** :

**Ozone depleting substances (1005/2009/EU)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**National regulatory information**

GD 398/2010 on establishing measures for application of Regulation (EC) no. 1.272 / 2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation ( EC). 1.907 / 2006GD 477/2009 on establishing penalties for infringements of the provisions of Regulation (EC) no. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Agency for Chemicals, amending Directive 1999/45 / EC and repealing Regulation (EEC) No . 793/93 and Regulation (EC) no. 1,488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC of the CommissionGD 1218/2006 laying down minimum requirements for safety and health at work for the protection of workers from risks related to chemical agents

**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.

**LU - Luxembourg prohibited chemicals in the workplace**

Not listed.

**Inventory list**

| | |
|---|---|
| **Australia inventory (AIIC)** | : Not determined. |
| **Canada inventory (DSL/NDSL)** | : Not determined. |
| **China inventory (IECSC)** | : Not determined. |
| **Europe inventory (EC)** | : All components are listed or exempted. |
| **Japan inventory** | : **Japan inventory (CSCL)**: Not determined.<br>**Japan inventory (ISHL)**: Not determined. |
| **New Zealand Inventory of Chemicals (NZIoC)** | : Not determined. |
| **Philippines inventory (PICCS)** | : Not determined. |
| **Korea inventory (KECI)** | : Not determined. |
| **Taiwan Chemical Substances Inventory (TCSI)** | : Not determined. |
| **Thailand inventory** | : Not determined. |
| **Turkey inventory** | : Not determined. |
| **United States inventory (TSCA 8b)** | : Not determined. |
| **Vietnam inventory** | : Not determined. |

**The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.**

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
PNEC = Predicted No Effect Concentration
LC50 = Median lethal concentration

LD50 = Median lethal dose
OEL = Occupational Exposure Limit
VOC = Volatile Organic Compound
UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material
NOEC No Observed Effect Concentration
QSAR = Quantitative Structure–Activity Relationship

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

| Classification | Justification |
|---|---|
| Not classified. | |

**Full text of abbreviated H statements**

| | |
|---|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1B | SKIN SENSITIZATION - Category 1B |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

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