

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

1.1 Product identifier

Product name : QUARTZ INEO MC3 5W-30

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

| Identified uses |
|-----------------|
| Engine oil |

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants
562 Avenue du Parc de L'île
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 Austria GmbH
Modecenterstraße 17/ Objekt 1/ OG 2
1110 WIEN
Tel: + 43(0)1 616 46 11 – 0
Fax: + 43(0)1 616 46 11 – 24
hseq_at@totalenergies.com

Contact

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : Poison Information Center: +43 1 406 43 43

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. |

2.3 Other hazards

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

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

SECTION 3: Composition/information on ingredients**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % (w/w) | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|---|-----------|--|------|
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8 | ≥50 - ≤75 | Asp. Tox. 1, H304 | [1] |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 | ≤10 | Asp. Tox. 1, H304 | [1] |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 | ≤10 | Asp. Tox. 1, H304 | [1] |
| Distillates (petroleum), solvent-dewaxed light paraffinic | REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 | ≤3 | Asp. Tox. 1, H304 | [1] |
| bis(nonylphenyl)amine | REACH #: 01-2119488911-28 EC: 253-249-4 CAS: 36878-20-3 | ≤3 | Aquatic Chronic 4, H413 | [1] |
| C14-16-18 Alkyl phenol | REACH #: 01-2119498288-19 EC: 931-468-2 CAS: 64742-65-0 | ≤3 | Skin Sens. 1B, H317 STOT RE 2, H373 | [1] |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 | ≤3 | Asp. Tox. 1, H304 | [1] |
| Paraffin oils (petroleum), catalytic dewaxed heavy | REACH #: 01-2119487080-42 EC: 265-174-4 | ≤3 | Asp. Tox. 1, H304 | [1] |



| | | | | |
|--|--|------|---|-----|
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | CAS: 64742-70-7 REACH #: 01-0000019337-66 EC: 457-320-2 | ≤0.3 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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. 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 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:
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, CO₂, 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 dioxide.
carbon monoxide
Zinc oxides
phosphorus oxides
Hydrogen sulfide
sulfur oxides
Mercaptans
nitrogen oxides

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

No exposure limit value known.

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.

- 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 Inhalation | 5.58 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.19 mg/m ³ | 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/m ³ | Workers | Systemic |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | DNEL | Long term Inhalation | 5.4 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.2 mg/m ³ | General population | Local |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | DNEL | Long term Inhalation | 5.4 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.2 mg/m ³ | General population | Local |
| bis(nonylphenyl)amine | DNEL | Long term Oral | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 5 mg/kg bw/day | Workers | Systemic |
| C14-16-18 Alkyl phenol | DNEL | Long term Inhalation | 1.17 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 0.3 mg/kg bw/day | Workers | Systemic |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | DNEL | Long term Inhalation | 5.58 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 2.73 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 970 µg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.19 mg/m ³ | General population | Local |
| | DNEL | Long term Oral | 740 µg/kg bw/day | General population | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Name | Method Detail |
|---|------------------------|------------------|---------------|
| Distillates (petroleum), hydrotreated heavy paraffinic bis(nonylphenyl)amine | Secondary Poisoning | 9.33 mg/kg | - |
| | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |
| | Fresh water sediment | 132000 mg/kg dwt | - |
| | Marine water sediment | 13200 mg/kg dwt | - |
| | Soil | 263000 mg/kg dwt | - |
| | Sewage Treatment Plant | 1 mg/l | - |
| C14-16-18 Alkyl phenol | Fresh water | 0.1 mg/l | - |
| | Marine water | 0.01 mg/l | - |



| | | | |
|---|------------------------|-------------------|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 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 | - |
| | Secondary Poisoning | 9.33 mg/kg | - |

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.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : None under normal use conditions

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. |
| Odor threshold | : Not available. |
| pH | : Not applicable. |
| Melting point/freezing point | : Not applicable. |
| Initial boiling point and boiling range | : Not available. |
| Flash point | : Open cup: >220°C [Cleveland Open Cup (COC)] |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Upper/lower flammability or explosive limits | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 0.85 |
| Density | : 0.85 g/cm ³ [15°C] |
| Solubility(ies) | : Insoluble in the following materials: cold water and hot water. |
| Miscible with water | : No. |
| Partition coefficient: n-octanol/ water | : Not applicable. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C): 70 mm ² /s |
| Explosive properties | : Not available. |
| Oxidizing properties | : Not applicable |
| <u>Particle characteristics</u> | |
| Median particle size | : Not applicable. |

9.2 Other information

All relevant data for the use of the product are provided in §9.1

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 : No specific data.

10.5 Incompatible materials : Strong oxidizing agents

10.6 Hazardous decomposition products : Carbon dioxide.
carbon monoxide
Zinc oxides
phosphorus oxides
Hydrogen sulfide
sulfur oxides
Mercaptans
nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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 |
| | LD50 Dermal | Rabbit - Male, Female | >5000 mg/kg | - | Read across OECD 402 |
| | LD50 Oral | Rat - Male, Female | >5000 mg/kg | - | Read across OECD 401 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | Read across OECD 403 |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 401 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | LC50 Inhalation Dusts and mists | Rat | 5.53 mg/l | 4 hours | OECD 403 |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 401 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | LC50 Inhalation Dusts and mists | Rat | 5.53 mg/l | 4 hours | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | - |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - | OECD 402 |
| bis(nonylphenyl)amine | LD50 Oral | Rat | >5000 mg/kg | - | OECD 401 |
| | LD50 Dermal | Rat | >2000 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 | - | - |
| | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | OECD 403 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | LC50 Inhalation Vapor | Rat | 80.1 mg/l | 1 hours | - |
| | LC50 Inhalation Vapor | Rat | 20.1 mg/l | 4 hours | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | OECD 402 |
| | LD50 Oral | Rat | >5000 mg/kg | - | OECD 420 |
| | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | - |
| | LC50 Inhalation Vapor | Rat | 80.4 mg/l | 1 hours | - |
| Paraffin oils (petroleum), catalytic dewaxed heavy | LC50 Inhalation Vapor | Rat | 20.1 mg/l | 4 hours | - |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - | - |
| | LD50 Oral | Rat | >5000 mg/kg | - | - |
| | LC50 Inhalation Dusts and mists | Rat | 5.1 mg/l | 4 hours | - |
| | LC50 Inhalation Vapor | Rat | 80.4 mg/l | 1 hours | - |
| | LD50 Oral | Rat | >5000 mg/kg | - | - |



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

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 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 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 | 40.05 | 5.1 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | N/A | N/A | N/A | 20.1 | 5.1 |

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)

Not available.

Specific target organ toxicity (repeated exposure)

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

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 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ASPIRATION HAZARD - Category 1 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | ASPIRATION HAZARD - Category 1 |

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.



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 - Pseudokirchnerella subcapitata | 48 hours | OECD 201 |
| | Acute EC50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Chronic NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | - |
| | Chronic NOEL >1000 mg/l | Fish - Oncorhynchus mykiss | 21 days | - |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | Acute EC50 >100 mg/l | Algae - Pseudokirchnerella subcapitata | 48 hours | OECD 201 |
| | Acute EC50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Acute LC50 >10000 mg/l | Daphnia - Gammarus pulex | 24 hours | OECD 202 |
| | Acute LC50 >10000 mg/l | Daphnia - Gammarus pulex | 48 hours | OECD 202 |
| | Acute LC50 >10000 mg/l | Daphnia - Gammarus pulex | 72 hours | OECD 202 |
| | Acute LC50 >10000 mg/l | Daphnia - Gammarus pulex | 96 hours | OECD 202 |
| | Acute NOEL 101 mg/l | Algae | 72 hours | OECD 201 |
| | Acute NOEL >100 mg/l | Fish - Pimephales promelas | 96 hours | OECD 203 |
| | Chronic NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | OECD 211 |
| | Chronic NOEL >1000 mg/l | Fish - Oncorhynchus mykiss | 21 days | - |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | Acute EC50 >1000 mg/l | Daphnia | 48 hours | OECD 202 |
| | Chronic NOEL 10 mg/l | Daphnia | 21 days | OECD 202 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | Chronic NOEL >1000 mg/l | Fish | 14 days | - |
| | Acute EC50 101 mg/l | Algae | 72 hours | - |
| | Acute EC50 10000 mg/l | Daphnia - Daphnia magna | 48 hours | - |
| bis(nonylphenyl)amine | Acute NOEL 101 mg/l | Algae - (Pseudokirchnerella subcapitata) | 72 hours | OECD 201 |
| | Acute NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | OECD 211 |
| | Acute NOEL ≥100 mg/l | Fish - Pimephales promelas | 96 hours | OECD 203 |
| | Acute EC50 600 mg/l | Algae - Selenastrum capricornutum | 72 hours | - |
| C14-16-18 Alkyl phenol Distillates (petroleum), solvent-dewaxed heavy paraffinic | Acute EC50 >100 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Acute EC50 >1000 mg/l | Micro-organism | 0.1 days | - |
| | Acute EC50 >100 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Acute EC50 >100 mg/l | Algae - Pseudokirchnerella subcapitata | 72 hours | OECD 201 |
| | Acute EC50 >10000 mg/l | Daphnia - Daphnia magna | 48 hours | OECD 202 |
| | Chronic NOEL 10 mg/l | Daphnia - Daphnia magna | 21 days | OECD 211 |
| | Chronic NOEL >1000 mg/l | Fish - Oncorhynchus mykiss | 21 days | - |



| | | | | |
|--|--|---|----------------------|---------------|
| Paraffin oils (petroleum), catalytic dewaxed heavy | Acute EC50 10000 mg/l | Daphnia | 48 hours | - |
| | Acute NOEL 101 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours | - |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | Acute EC50 14 mg/l | Algae - Selenastrum capricornutum | 72 hours | OECD 201 |
| | Acute EC50 50 mg/l Acute LC50 94.8 mg/l | Daphnia - Daphnia magna Fish | 48 hours 96 hours | OECD 202 - |

12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | - | - | Not readily |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed light paraffinic | - | - | Not readily |
| bis(nonylphenyl)amine | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | - | - | Readily |
| Paraffin oils (petroleum), catalytic dewaxed heavy | - | - | 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 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | 4.1 | - | high |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 6.1 | - | high |
| Distillates (petroleum), solvent-dewaxed light paraffinic | 3.1 | - | low |
| bis(nonylphenyl)amine | 7.7 | 1584.89 | high |
| Molybdenum polysulphide long chain alkyl dithiocarbamate complex | >5.1 | - | high |

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.

- 12.6 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/ID No | 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 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 : Not applicable.

Other EU regulations

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

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

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

| Product/ingredient name | List name | Name on list | Classification | Notes |
|--|--------------------------------------|--|----------------|-------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | Austria Occupational Exposure Limits | Kühlschmierstoffe, die Nitrit oder nitritliefernde Verbindungen und Reaktionspartner für die Nitrosaminbildung enthalten | Carc. C | - |

VbF class : Not regulated.



Limitation of the use of organic solvents : Permitted.

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 (AIIIC) | : All components are listed or exempted. |
| Canada inventory (DSL/NDSL) | : All components are listed or exempted. |
| China inventory (IECSC) | : All components are listed, exempted, or notified. |
| Europe inventory (EINECS/ELINCS/NLP) | : All components are listed or exempted. |
| Japan inventory | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : Not determined. |
| New Zealand Inventory of Chemicals (NZIoC) | : All components are listed or exempted. |
| Philippines inventory (PICCS) | : All components are listed or exempted. |
| Korea inventory (KECI) | : All components are listed or exempted. |
| Taiwan Chemical Substances Inventory (TCSI) | : All components are listed or exempted. |
| Thailand inventory | : Not determined. |
| Turkey inventory | : Not determined. |
| United States inventory (TSCA 8b) | : All components are listed or exempted. |
| 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 : Abbreviations and acronyms

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. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Aquatic Chronic 4 | AQUATIC HAZARD (LONG-TERM) - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - 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 |

Date of revision : 2022/01/28

Date of previous revision : No previous validation

Version : 1

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.