

Previous revision date : 2026/01/21

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

1.1 Product identifier

Product name : QUARTZ MOPAR FPW/01 0W-20

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'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 Belgium
Anspachlaan 1, bus 2 / Boulevard anspach 1, boîte 2
1000 Brussel/Bruxelles – België/Belgique
Tél: +32 (0)22 889 933
Fax: +32 (0)22 883 260
rm.be-reach-belgium-msds@totalenergies.com
See section 16 to have the contact details of the local supplier

Contact

H.S.E

1.4 Emergency telephone number

Supplier

Telephone number : National advisory body/Poison Center : +32 70 245 245
Supplier (info product): +44 1235239670
SOS TotalEnergies Marketing Belgium (transport): +32 78 15 51 51

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.

For more details about adverse physical, human health and environmental effects, see sections 9 to 12.

2.2 Label elements

Signal word : No signal word.



| | |
|---|--|
| Hazard statements | : No hazard statement. |
| Precautionary statements | |
| Prevention | : Not applicable. |
| Response | : Not applicable. |
| Storage | : Not applicable. |
| Disposal | : Not applicable. |
| Supplemental label elements | : Contains C14-16-18 Alkyl phenol. May produce an allergic reaction. Safety data sheet available on request. |
| Labelling element REACH Annex XVII | : 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 in a concentration $\geq 0,1$ %.

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 | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|--|---|---------------------|--|---|---------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5 | $\geq 50 - \leq 75$ | Asp. Tox. 1, H304 | - | [1] [2] |
| Dec-1-ene, trimers, hydrogenated | REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3 | ≤ 10 | Asp. Tox. 1, H304 | - | [1] |
| Distillates (petroleum), solvent-dewaxed light paraffinic | REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9 | ≤ 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 | - | [1] |
| Paraffin oils (petroleum), catalytic dewaxed heavy | REACH #: 01-2119487080-42 EC: 265-174-4 CAS: 64742-70-7 | ≤ 3 | Asp. Tox. 1, H304 Aquatic Chronic 4, H413 | - | [1] [2] |
| Distillates (petroleum), | REACH #: | ≤ 3 | Asp. Tox. 1, H304 | - | [1] [2] |



| | | | | | |
|--|---|------|---|---|---------|
| solvent-dewaxed heavy paraffinic | 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6 | | | | |
| Distillates (petroleum), hydrotreated heavy paraffinic | REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 | ≤3 | Asp. Tox. 1, H304 | - | [1] [2] |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | REACH #: 01-0000015551-76 EC: 406-040-9 CAS: 125643-61-0 | ≤3 | Aquatic Chronic 4, H413 | - | [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] |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X | ≤3 | Asp. Tox. 1, H304 | - | [1] [2] |
| Reaction products of diphenylamine with nonene, branched | REACH #: 01-2119488911-28 EC: 701-385-4 | <3 | Repr. 2, H361f | - | [1] |
| Distillates (petroleum), hydrotreated light naphthenic | REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2 | ≤0.3 | Asp. Tox. 1, H304 | - | [1] [2] |
| | | | See Section 16 for the full text of the H statements declared above. | | |

Component : % (w/w)

Additional information : Mineral oil of petroleum origin. Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 The product is made from synthetic base oils

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. 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

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : irritation
redness
dryness
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, 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 monoxide
carbon dioxide
nitrogen oxides
phosphorus oxides
sulfur oxides
Hydrogen sulfide
Mercaptans
Zinc 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. 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. 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).
See Section 10 for incompatible materials before handling or use.

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.

7.3 Specific end use(s)

Recommendations : Not available.



QUARTZ MOPAR FPW/01 0W-20

TotalEnergies

SDS # : C3O0JA754

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/substance | Exposure limit values |
|--|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Distillates (petroleum), solvent-dewaxed light paraffinic | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Paraffin oils (petroleum), catalytic dewaxed heavy | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Distillates (petroleum), hydrotreated heavy paraffinic | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Distillates (petroleum), hydrotreated heavy paraffinic | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |
| Distillates (petroleum), hydrotreated light naphthenic | Limit values (Belgium, 12/2023) [Olie] TWA 8 hours: 5 mg/m ³ . Form: mist. STEL 15 minutes: 10 mg/m ³ . Form: mist. |

Biological Limit Values (BLV)

No exposure indices known.

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.

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 | Result |
|--|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | DNEL - General population - Long term - Oral 0.74 mg/kg bw/day <u>Effects:</u> Local |
| | DNEL - General population - Long term - Oral 0.74 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Dermal 0.97 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - General population - Long term - Inhalation 1.19 mg/m ³ <u>Effects:</u> Local |
| | DNEL - Workers - Long term - Inhalation 2.73 mg/m ³ <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Inhalation 5.58 mg/m ³ <u>Effects:</u> Local |
| Distillates (petroleum), solvent-dewaxed light paraffinic | DNEL - General population - Long term - Oral 0.74 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Dermal 0.97 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - General population - Long term - Inhalation 1.19 mg/m ³ <u>Effects:</u> Local |
| | DNEL - Workers - Long term - Inhalation 2.73 mg/m ³ <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Inhalation 5.58 mg/m ³ <u>Effects:</u> Local |
| | DNEL - Workers - Long term - Inhalation 1.17 mg/m ³ <u>Effects:</u> Systemic |
| C14-16-18 Alkyl phenol | DNEL - Workers - Long term - Dermal 0.3 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Inhalation 1.17 mg/m ³ <u>Effects:</u> Systemic |
| Paraffin oils (petroleum), catalytic dewaxed heavy | DNEL - General population - Long term - Oral 0.74 mg/kg bw/day <u>Effects:</u> Systemic |
| | DNEL - Workers - Long term - Dermal 0.97 mg/kg bw/day <u>Effects:</u> Systemic |



Distillates (petroleum), solvent-dewaxed heavy paraffinic

DNEL - General population - Long term - Inhalation

1.19 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³

Effects: Local

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/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³

Effects: Local

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/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³

Effects: Local

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

DNEL - Workers - Long term - Dermal

0.006 mg/cm²

Effects: Local

DNEL - General population - Long term - Oral

0.16 mg/kg bw/day

Effects: Systemic



Distillates (petroleum), hydrotreated heavy paraffinic

DNEL - Workers - Long term - Dermal

0.22 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.33 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

0.74 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Dermal

1 mg/cm²

Effects: Local

DNEL - Workers - Long term - Inhalation

2.33 mg/m³

Effects: Systemic

DNEL - General population - Short term - Dermal

8.33 mg/cm²

Effects: Local

DNEL - Workers - Short term - Dermal

20 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

50 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

50 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Inhalation

875 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

1750 mg/m³

Effects: Systemic

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/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation



Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

5.58 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation

5.4 mg/m³
Effects: Local

DNEL - General population - Long term - Inhalation

1.2 mg/m³
Effects: Local

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/m³
Effects: Local

DNEL - Workers - Long term - Inhalation

2.73 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation

5.58 mg/m³
Effects: Local

Reaction products of diphenylamine with nonene, branched

DNEL - Workers - Long term - Inhalation

1.41 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Dermal

4 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation

0.35 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal

2 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Oral

0.2 mg/kg bw/day
Effects: Systemic

PNECs



| Product/substance | Result |
|---|---|
| ☑14-16-18 Alkyl phenol | <p>Fresh water 0.1 mg/l</p> <p>Marine water 0.01 mg/l</p> <p>Fresh water sediment 4266.16 mg/kg dwt</p> <p>Marine water sediment 426.62 mg/kg dwt</p> <p>Soil 852.58 mg/kg dwt</p> <p>Sewage Treatment Plant 100 mg/l</p> |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Secondary Poisoning 9.33 mg/kg |
| Distillates (petroleum), hydrotreated heavy paraffinic | Secondary Poisoning 9.33 mg/kg |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | <p>Fresh water 0.0043 mg/l</p> <p>Marine water 0.00043 mg/l</p> <p>Fresh water sediment 233 mg/kg dwt</p> <p>Marine water sediment 23.3 mg/kg dwt</p> <p>Soil 189 mg/kg</p> |
| Distillates (petroleum), hydrotreated heavy paraffinic | Secondary Poisoning 9.33 mg/kg |
| Reaction products of diphenylamine with nonene, branched | <p>Fresh water 0.412 mg/l</p> <p>Marine water 0.041 mg/l</p> <p>Fresh water sediment 1 mg/kg dwt</p> <p>Marine water sediment 0.1 mg/kg dwt</p> |

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 | : In case of contact through splashing: 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 | : Wear work clothing with long sleeves. Non-skid safety shoes or boots |
| 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 | : Clear. | |
| 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 [ISO 3405] | |
| Flash point | : Open cup: 234°C [ASTM D 92] | |
| Flammability | : Non-flammable. | |
| Lower and upper explosion limit | : Lower: 0.9% Upper: 7% | |
| Vapor pressure | : <0.01 kPa [room temperature] Not applicable. [50°C] | |
| Vapor density | : >2 [Air = 1] | |



Relative density : 0.846 [ISO 12185]
 Density : 0.846 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 : >234°C [ASTM E 659]
 Decomposition temperature : Not applicable.
 Viscosity : Dynamic (room temperature): Not available.
 Kinematic (room temperature): Not available.
 Kinematic (40°C): 46.58 mm²/s [ISO 3104]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

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 : 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/substance | Result |
|--|--|
| <input checked="" type="checkbox"/> Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | <p>Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD 401 Read across</p> <p>Rabbit - Male, Female - Dermal - LD50 >5000 mg/kg OECD 402 Read across</p> <p>Rat - Inhalation - LC50 Dusts and mists</p> |



| | |
|---|---|
| Dec-1-ene, trimers, hydrogenated | 5.1 mg/l [4 hours] OECD 403 Rat - Oral - LD50 >5000 mg/kg OECD 401 Rat - Dermal - LD50 >3000 mg/kg OECD 402 Rat - Inhalation - LC50 Vapor 1.17 mg/l [4 hours] OECD 403 Rat - Inhalation - LC50 Vapor 0.9 mg/l [4 hours] OECD 403 Rat - Inhalation - LC50 Vapor 1.4 mg/l [4 hours] OECD 403 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | Rat - Oral - LD50 >5000 mg/kg OECD 401 Rabbit - Dermal - LD50 >5000 mg/kg OECD 402 Rat - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD 403 |
| C14-16-18 Alkyl phenol | Rat - Oral - LD50 2000 mg/kg Rat - Dermal - LD50 2000 mg/kg |
| Paraffin oils (petroleum), catalytic dewaxed heavy | Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD Acute Oral Toxicity Rabbit - Male, Female - Dermal - LD50 >5000 mg/kg OECD Acute Dermal Toxicity Rat - Inhalation - LC50 Dusts and mists >5.53 mg/l [4 hours] OECD Equivalent or similar to OECD Guideline 403 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Rabbit - Dermal - LD50 >5000 mg/kg OECD 402 Rat - Oral - LD50 >5000 mg/kg OECD 420 |



| | |
|--|---|
| Distillates (petroleum), hydrotreated heavy paraffinic | <p>Rat - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD 403</p> <p>Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD 401 Read across</p> <p>Rabbit - Male, Female - Dermal - LD50 >5000 mg/kg OECD 402 Read across</p> <p>Rat - Male, Female - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD 403 Read across</p> |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | <p>Rat - Oral - LD50 >5000 mg/kg OECD 401</p> <p>Rabbit - Dermal - LD50 >5000 mg/kg OECD 402</p> <p>Rat - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] OECD 403</p> |
| Reaction products of diphenylamine with nonene, branched | <p>Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD Equivalent or similar to guideline OECD 401 <u>Toxic effects:</u> No mortality was observed at a single dose of 5000 mg/kg bw.</p> |

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 |

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory corrosion/irritation

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

Respiratory or skin sensitization

Skin



Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction. 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.

Respiratory

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

| Product/substance | Result |
|------------------------|-----------------|
| C14-16-18 Alkyl phenol | STOT RE 2, H373 |

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

Aspiration hazard

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** : irritation
redness
dryness
cracking
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Potential chronic health effects



| Product/substance | Result |
|--|--|
| Paraffin oils (petroleum), catalytic dewaxed heavy | <p>Sub-chronic - Rat - Oral - LOEL OECD 408 [Equivalent or similar to OECD Guideline 408] 125 mg/kg</p> <p>Sub-chronic - Rat - Dermal - NOAEL OECD 411 [equivalent or similar to OECD Guideline 411] <30 mg/kg</p> <p>Sub-acute - Rat - Inhalation - NOAEC OECD 412 [Equivalent or similar to OECD Guideline 412] 980 mg/m³ [6 hours per day] [4 weeks]</p> |
| Reaction products of diphenylamine with nonene, branched | <p>Sub-chronic - Rat - Male, Female - Oral - LOEL OECD [According to guideline OECD 408] 100 mg/kg</p> |

| | |
|------------------------------|---|
| 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

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/substance | Result |
|--|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | <p>Acute - LL50 Fish - <i>Pimephales promelas</i> OECD [203] >100 mg/l [96 hours]</p> <p>Acute - EL50 Crustaceans - <i>Daphnia magna</i> OECD [202] >10000 mg/l [48 hours] Effect: Mobility</p> <p>Acute - EL50 Algae - <i>Pseudokirchneriella subcapitata</i> OECD [201] >100 mg/l [48 hours] Effect: (growth rate)</p> <p>Chronic - NOEL Crustaceans - <i>Daphnia magna</i></p> |



Dec-1-ene, trimers, hydrogenated

OECD [211]
>1000 mg/l [21 days]
Effect: Reproduction

Chronic - NOEL

Algae - *Pseudokirchneriella subcapitata*
OECD [201]
>100 mg/l [72 hours]
Effect: (growth rate)

Acute - EL50 - Fresh water

Algae - *Scenedesmus capricornutum*
OECD [201]
>1000 mg/l [72 hours]
Effect: (growth rate)

Acute - EL50 - Fresh water

Daphnia
OECD [202]
>150 mg/l [48 hours]
Effect: Mobility

Acute - LL50 - Fresh water

Fish - *Oncorhynchus mykiss*
OECD [203]
1000 mg/l [96 hours]
Effect: Mortality

Distillates (petroleum), solvent-dewaxed light paraffinic

Acute - EL50

Fish - *Pimephales promelas*
OECD [203]
≥100 mg/l [96 hours]

Acute - EL50

Crustaceans - *Daphnia magna*
OECD 202
10000 mg/l [48 hours]
Effect: Mobility

Acute - EL50

Algae - *Pseudokirchneriella subcapitata*
OECD 201
>100 mg/l [72 hours]
Effect: (growth rate)

Chronic - NOEL

Crustaceans - *Daphnia magna*
OECD [211]
>1000 mg/l [21 days]
Effect: Reproduction

Chronic - NOEL

Algae - *Pseudokirchneriella subcapitata*
OECD [201]
>100 mg/l [72 hours]
Effect: (growth rate)

C14-16-18 Alkyl phenol

Acute - EC50

Daphnia - *Daphnia magna*
OECD [202]



Paraffin oils (petroleum), catalytic dewaxed heavy

>100 mg/l [48 hours]

Acute - LL50 - Fresh water

Fish - *Pimephales promelas*
OECD 203 [Fish, Acute Toxicity Test]
>100 mg/l [96 hours]
Effect: Mortality

Acute - EL50 - Fresh water

Daphnia - *Daphnia magna*
OECD 202 [Daphnia sp. Acute Immobilization Test and Reproduction Test]
>10000 mg/l [48 hours]
Effect: Mobility

Chronic - EL50 - Fresh water

Daphnia - *Daphnia magna*
OECD 211 [Daphnia Magna Reproduction Test]
>1000 mg/l [21 days]
Effect: Reproduction

Acute - NOEL - Fresh water

Algae - *Raphidocelis subcapitata*
OECD 201 [Alga, Growth Inhibition Test]
≥100 mg/l [72 hours]
Effect: (growth rate)

Acute - NOEL

Micro-organism
EU [DIN 38412 / part 15]
>1.93 mg/l [4 days]

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Acute - LL50

Fish - *Oncorhynchus mykiss*
OECD 203
>1000 mg/l [96 hours]

Acute - EL50

Crustaceans - *Daphnia magna*
OECD [202]
>10000 mg/l [48 hours]
Effect: Mobility

Chronic - NOEL

Crustaceans - *Daphnia magna*
OECD [211]
>1000 mg/l [21 days]
Effect: Reproduction

Distillates (petroleum), hydrotreated heavy paraffinic

Acute - EC50

Crustaceans - *Daphnia magna*
OECD [202]
>10000 mg/l [48 hours]
Effect: Mobility

Acute - EC50

Algae - *Pseudokirchneriella subcapitata*
OECD [201]
>100 mg/l [72 hours]
Effect: (growth rate)



Lubricating oils (petroleum), C15-30,
hydrotreated neutral oil-based

Chronic - NOEL

Crustaceans - *Daphnia magna*
>1000 mg/l [21 days]
Effect: Reproduction

Chronic - NOEL

Algae - *Pseudokirchneriella subcapitata*
OECD [201]
>100 mg/l [72 hours]
Effect: (growth rate)

Acute - LL50

Fish - *Pimephales promelas*
OECD 203
>1000 mg/l [96 hours]

Acute - EL50

Crustaceans - *Daphnia magna*
OECD [202]
>10000 mg/l [48 hours]
Effect: Mobility

Acute - EL50

Algae - *Pseudokirchneriella subcapitata*
OECD 201
>100 mg/l [72 hours]
Effect: (growth rate)

Chronic - NOEL

Crustaceans - *Daphnia magna*
OECD 211
>1000 mg/l [21 days]
Effect: Reproduction

Chronic - NOEL

Algae - *Pseudokirchneriella subcapitata*
OECD 201
>100 mg/l [72 hours]
Effect: (growth rate)

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

12.2 Persistence and degradability

| Product/substance | Result |
|---|--|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OECD 301F 31% [28 days] - Not readily |
| Dec-1-ene, trimers, hydrogenated | OECD [301B] 7% [28 days] |
| Distillates (petroleum), solvent-dewaxed light paraffinic | OECD 301F 31% [28 days] - Not readily |
| Paraffin oils (petroleum), catalytic dewaxed heavy | OECD 301 [Ready Biodegradability - Manometric Respirometry Test] 31% [28 days] - Not readily |
| Distillates (petroleum), solvent-dewaxed | OECD 301F |



| | |
|---|--|
| heavy paraffinic | 31% [28 days] - Not readily |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | OECD 301B 2% [28 days] - Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F 31% [28 days] - Not readily |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | OECD 301F 31% [28 days] - Not readily |

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | - | - | Not readily |
| Dec-1-ene, trimers, hydrogenated | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed light paraffinic | - | - | Not readily |
| Paraffin oils (petroleum), catalytic dewaxed heavy | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | - | - | Not readily |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | - | - | Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | - | - | Not readily |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | - | - | Not readily |
| Reaction products of diphenylamine with nonene, branched | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/substance | LogK _{ow} | BCF | Potential |
|---|--------------------|----------------|-----------|
| Dec-1-ene, trimers, hydrogenated | >6.5 | - | High |
| Distillates (petroleum), solvent-dewaxed light paraffinic | 3.1 | - | Low |
| Paraffin oils (petroleum), catalytic dewaxed heavy | 1.99 to 18.02 | 0.4 to 71100 | High |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 9.2 | 260 | Low |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- | 9.2 | 260 [OECD 305] | Low |



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TotalEnergies

SDS # : C3O0JA754

| | | | | |
|---|-----|------|--|------|
| butyl-4-hydroxyphenyl) propionate | >4 | - | | High |
| Distillates (petroleum), hydrotreated heavy paraffinic Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 6.1 | - | | High |
| Reaction products of diphenylamine with nonene, branched | - | 1010 | | High |

12.4 Mobility in soil

Soil/Water partition coefficient

Not available.

Results of PMT and vPvM assessment

| Product/substance | PMT | P | M | T | vPvM | vP | vM |
|--|-----|-----|-----|-----|------|-----|-----|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | No | N/A | N/A | No | N/A | N/A | N/A |
| Dec-1-ene, trimers, hydrogenated | 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 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | 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 heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | No | N/A | N/A | No | N/A | N/A | N/A |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | No | N/A | N/A | No | N/A | N/A | N/A |
| Reaction products of diphenylamine with nonene, branched | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

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

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



| Product/substance | PBT | P | B | T | vPvB | vP | vB |
|--|-----|-----|-----|-----|------|-----|-----|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | No | N/A | N/A | No | N/A | N/A | N/A |
| Dec-1-ene, trimers, hydrogenated | 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 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | No | N/A | No | No | No | N/A | No |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | No | N/A | No | No | No | N/A | No |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | No | N/A | No | No | No | N/A | No |
| Distillates (petroleum), hydrotreated heavy paraffinic | No | N/A | N/A | No | N/A | N/A | N/A |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | No | N/A | N/A | No | N/A | N/A | N/A |
| Reaction products of diphenylamine with nonene, branched | No | N/A | No | Yes | No | N/A | 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

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

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. Should not be released into the environment.

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

Labeling : Not applicable.

Other EU regulations

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

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

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

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 inventory (AIIIC) | : All components are listed or exempted. |
| Canada inventory (DSL/NDL) | : All components are listed or exempted. |
| China inventory (IECSC) | : All components are listed or exempted. |
| Europe inventory (EC) | : All components are listed or exempted. |
| Japan inventory | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. |
| 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**

: Risk management measures and safety conditions of use are included in the relevant sections of the SDS

Section 16. Other information

▢ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ACGIH = American Conference of Governmental Industrial Hygienists
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
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
DMSO = Dimethyl Sulfoxide
EC50 = Half maximal effective concentration
EL50 = median Effective Loading
EUH statement = CLP-specific Hazard statement
HSE = Health, Safety and Environment
IATA = International Air Transport Association
IC50 = Half maximal inhibitory concentration
IDHL = Immediately dangerous to life or health
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = median Lethal Loading
LogKow = logarithm of the octanol/water partition coefficient
M = Mobile
N/A = Not available
NIOSH = National Institute of Occupational Safety and Health
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOEL = No Observed Effect Level
NOELR = No observed Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
OEL = Occupational Exposure Limit
OSHA = Occupational Safety and Health Administration.
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
POP = Persistent Organic Pollutants
polyvinyl alcohol (PVA)
QSAR = Quantitative Structure–Activity Relationship
REL = Recommended Exposure Limit
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SGG = Segregation Group
STEL = Short Term Exposure Limit
T = Toxic
TLV = Threshold Limit Value
TWA = Time Weight Average
vB = Very Bioaccumulative
vM = Very Mobile
VOC = Volatile Organic Compound
vP = Very Persistent

vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile
UFI = Unique Formula Identifier
UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

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

Not classified.

Full text of abbreviated H statements

| | |
|-------|--|
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Aquatic Chronic 4 | AQUATIC HAZARD (LONG-TERM) - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Repr. 2 | TOXIC TO REPRODUCTION - Category 2 |
| Skin Sens. 1B | SKIN SENSITIZATION - Category 1B |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

Additional details on the supplier of the product

Date of revision : 3/2/2026
Date of previous issue : 1/21/2026
Version : 2.01

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
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.