



Eni Multitech 10W-40

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Revision date: 10/17/2024 Version: 1.0

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

1.1. Product identifier

| | |
|-----------------|------------------------|
| Product form | : Mixture |
| Trade name | : Eni Multitech 10W-40 |
| UFI | : YQQ2-X3PT-9006-QSCW |
| Product code | : 1302 |
| Type of product | : Lubricant |
| Formula | : 0007-2023 |
| Product group | : Trade product |

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

1.2.1. Relevant identified uses

| | |
|----------------------------------|---|
| Main use category | : Industrial use, Professional use, Consumer use |
| Industrial/Professional use spec | : Wide dispersive use |
| Use of the substance/mixture | : Gearbox lubricant ----- Do not use the product for any purposes that have not been advised by the manufacturer. |
| Function or use category | : Lubricants and additives |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Enilive Iberia S.L.U.

Avenida de Europa, 24, Edificio Torona B - Planta 1ª, 28108 Alcobendas (Madrid) Tel: (+34) 917 277 878

Competent person responsible for the Safety Data Sheet (Reg. EC nr. 1907/2006): SDS.Enilive@enilive.com

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1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | : CNIT +39 0382 24444 (24h) (IT + EN) Poison Center |
|------------------|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|---|------|
| Serious eye damage/eye irritation, Category 2 | H319 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

CLP Signal word :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to according to national or local regulations.

2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification : This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels. If the product is handled or used at high temperature, contact with hot product or vapours may cause burns. Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to a hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop. A potential risk may arise from the release of hydrogen sulfide, when the product is stored or handled at high temperature. Hydrogen sulfide may accumulate in the tanks or other confined spaces, with danger to the workers that enter the spaces. In these cases overexposure to hydrogen sulfide may cause irritation to airways, nausea, dizziness, loss of consciousness and death.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|---|---|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4), phenol, (tetrapropenyl) derivatives (74499-35-7) ⁽¹⁾ , Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4), phenol, (tetrapropenyl) derivatives (74499-35-7) ⁽¹⁾ , Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |

⁽¹⁾ Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|---|---|
| Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | phenol, (tetrapropenyl) derivatives (74499-35-7)(¹) |
| Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4) |

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Composition/ Information on ingredients:
Mixture of hydrocarbons
Polymers
Additives

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP] |
|---|--|---------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (see note [*], see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE) | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25 | 70 – 80 | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP] |
|---|--|-------------|--|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (see note [*], see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE) | CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299-27 | 5 - 7 | Not classified |
| Distillates (petroleum), solvent-refined light paraffinic (see note [*], see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE) | CAS-No.: 64741-89-5 EC-No.: 265-091-3 EC Index-No.: 649-455-00-2 REACH-no: 01-2119487067-30 | 1 - 3 | Asp. Tox. 1, H304 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (see note [*], see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE) | CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299-27 | 1 - 2 | Asp. Tox. 1, H304 |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (Additive) | CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201-61 | 1 - 2 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE) | CAS-No.: 64741-88-4 EC-No.: 265-090-8 EC Index-No.: 649-454-00-7 REACH-no: 01-2119488706-23 | 1 - 3 | Not classified |
| phenol, (tetrapropenyl) derivatives Substance included in REACH Candidate List | CAS-No.: 74499-35-7 EC-No.: 616-100-8 EC Index-No.: 604-092-00-9 | 0.01 - 0.04 | Repr. 1B, H360F Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|--|--|---|
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (Additive) | CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201-61 | (15 ≤ C < 100) Skin Irrit. 2, H315 (15 ≤ C < 20) Eye Irrit. 2, H319 (20 ≤ C < 100) Eye Dam. 1, H318 |

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- Comments : Note [*]:
this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
- Note [**]:
substance with occupational exposure limits for some EU countries affecting the category of mineral oils (finely refined mineral base oil mists; see section 8.1)

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention. If breathing is difficult, give oxygen if possible, or assisted ventilation. If symptoms persist call a doctor. See also section 4.3.
- First-aid measures after skin contact : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice. Do not put ice on the burn.
- First-aid measures after eye contact : Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If eye irritation persists: Get medical advice/attention. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice.
- First-aid measures after ingestion : Do NOT induce vomiting. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital. If the casualty is unconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists. In these cases overexposure to vapours may cause irritation to airways, nausea and dizziness.
- Symptoms/effects after skin contact : Contact with hot product may cause thermal burns.
- Symptoms/effects after eye contact : Causes serious eye irritation. Contact with hot product or vapours may cause burns.
- Symptoms/effects after ingestion : Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.
- Symptoms/effects upon intravenous administration : No information available.
- Chronic symptoms : None to be reported, according to the present classification criteria.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. Seek medical attention in all cases of serious burns. If there is any suspicion of inhalation of H₂S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. Other extinguishing gases (according to regulations).
- Unsuitable extinguishing media : Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.
- Explosion hazard : In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m³ of air.
- Hazardous decomposition products in case of fire : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO_x (harmful/toxic gases). Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S. Oxygenated compounds (aldehydes, etc.). CaO_x. PO_x. ZnO_x.

5.3. Advice for firefighters

- Firefighting instructions : Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
- Special protective equipment for firefighters : Wear personal protection equipment. (see chapter 8). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.
- Other information : In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid direct contact with released material. Avoid accidental sprays on hot surfaces or electrical contacts. Keep upwind.

6.1.1. For non-emergency personnel

- Protective equipment : See Section 8.
- Emergency procedures : Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

6.1.2. For emergency responders

- Protective equipment : Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. If necessary heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (A) (or A+B when applicable for H₂S), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

6.2. Environmental precautions

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

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6.3. Methods and material for containment and cleaning up

- For containment : Contain spilled liquid with sand, earth or other suitable absorbents (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. If in water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.
- Other information : Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. The product may release Hydrogen Sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. See also Section 16, "Other information".
- Hygiene measures : Ensure that proper housekeeping measures are in place. Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

- Incompatible products : Keep away from strong oxidizers.
- Storage area : Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations/areas should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
- Packages and containers: : If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.
- Packaging materials : For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer.

Germany

Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids

Switzerland

Storage class (LK) : LK 10/12 - Liquids

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7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|--|--|
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| OEL STEL | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Netherlands - Occupational Exposure Limits | |
| MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| KGV (OEL STEL) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| WEL STEL (OEL STEL) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| ACGIH OEL STEL | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] (64741-88-4) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |

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Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] (64741-88-4)

| | |
|----------|---|
| OEL STEL | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------|---|

Hungary - Occupational Exposure Limits

| | |
|--------------|---|
| AK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|--------------|---|

Netherlands - Occupational Exposure Limits

| | |
|---------------------------------|---|
| MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------------------------|---|

Spain - Occupational Exposure Limits

| | |
|------------------|---|
| VLA-ED (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|------------------|---|

| | |
|-----------------------------|--|
| VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|-----------------------------|--|

Sweden - Occupational Exposure Limits

| | |
|---------------|---|
| NGV (OEL TWA) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

| | |
|----------------|---|
| KGV (OEL STEL) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------------|---|

United Kingdom - Occupational Exposure Limits

| | |
|-------------------|---|
| WEL TWA (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|-------------------|---|

| | |
|---------------------|--|
| WEL STEL (OEL STEL) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------------|--|

USA - ACGIH - Occupational Exposure Limits

| | |
|---------------|---|
| ACGIH OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

| | |
|----------------|--|
| ACGIH OEL STEL | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------------|--|

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

Austria - Occupational Exposure Limits

| | |
|---------------|---|
| MAK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

Belgium - Occupational Exposure Limits

| | |
|---------|---|
| OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------|---|

Denmark - Occupational Exposure Limits

| | |
|---------|---|
| OEL TWA | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------|---|

| | |
|----------|---|
| OEL STEL | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------|---|

Hungary - Occupational Exposure Limits

| | |
|--------------|---|
| AK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|--------------|---|

Netherlands - Occupational Exposure Limits

| | |
|---------------------------------|---|
| MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------------------------|---|

Spain - Occupational Exposure Limits

| | |
|------------------|---|
| VLA-ED (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|------------------|---|

| | |
|-----------------------------|--|
| VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|-----------------------------|--|

Sweden - Occupational Exposure Limits

| | |
|---------------|---|
| NGV (OEL TWA) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

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| | |
|---|--|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) | |
| KGV (OEL STEL) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| WEL STEL (OEL STEL) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| ACGIH OEL STEL | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark - Occupational Exposure Limits | |
| OEL TWA | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| OEL STEL | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Netherlands - Occupational Exposure Limits | |
| MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| KGV (OEL STEL) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| WEL STEL (OEL STEL) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| ACGIH OEL STEL | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) | |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

Belgium - Occupational Exposure Limits

| | |
|---------|---|
| OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------|---|

Denmark - Occupational Exposure Limits

| | |
|---------|---|
| OEL TWA | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------|---|

| | |
|----------|---|
| OEL STEL | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------|---|

Hungary - Occupational Exposure Limits

| | |
|--------------|---|
| AK (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|--------------|---|

Netherlands - Occupational Exposure Limits

| | |
|---------------------------------|---|
| MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------------------------|---|

Spain - Occupational Exposure Limits

| | |
|------------------|---|
| VLA-ED (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|------------------|---|

| | |
|-----------------------------|--|
| VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|-----------------------------|--|

Sweden - Occupational Exposure Limits

| | |
|---------------|---|
| NGV (OEL TWA) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

| | |
|----------------|---|
| KGV (OEL STEL) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------------|---|

United Kingdom - Occupational Exposure Limits

| | |
|-------------------|---|
| WEL TWA (OEL TWA) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|-------------------|---|

| | |
|---------------------|--|
| WEL STEL (OEL STEL) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------------|--|

USA - ACGIH - Occupational Exposure Limits

| | |
|---------------|---|
| ACGIH OEL TWA | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|---------------|---|

| | |
|----------------|--|
| ACGIH OEL STEL | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
|----------------|--|

8.1.2. Recommended monitoring procedures

Monitoring methods

| | |
|--------------------|--|
| Monitoring methods | Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts. Refer to relevant legislation and in any case to the good practice of industrial hygiene. |
|--------------------|--|

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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DNEL/DMEL (additional information)

| | |
|------------------------|----------------|
| Additional information | Not applicable |
|------------------------|----------------|

PNEC (additional information)

| | |
|------------------------|----------------|
| Additional information | Not applicable |
|------------------------|----------------|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

DNEL/DMEL (Workers)

| | |
|--------------------------------------|---------------------------|
| Long-term - systemic effects, dermal | 0.97 mg/kg bodyweight/day |
|--------------------------------------|---------------------------|

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| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|--|---------------------------|
| Long-term - systemic effects, inhalation | 2.73 mg/m ³ |
| Long-term - local effects, inhalation | 5.4 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.74 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 1.2 mg/m ³ |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 9.33 mg/kg food |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 9.6 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 6.6 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.19 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.67 mg/m ³ |
| Long-term - systemic effects, dermal | 4.8 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 2 µg/l |
| PNEC aqua (marine water) | 0.2 µg/l |
| PNEC aqua (intermittent, freshwater) | 20 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 19.3 mg/kg dwt |
| PNEC sediment (marine water) | 1.93 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 15.7 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 970 µg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.73 mg/m ³ |
| Long-term - local effects, inhalation | 5.58 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 740 µg/kg bodyweight/day |
| Long-term - local effects, inhalation | 1.19 mg/m ³ |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 9.33 mg/kg food |

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Note : The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), check the atmosphere for oxygen content, presence of hydrogen sulphide (H₂S) and SO_x, and flammability. See also Section 16, "Other information".

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

Gloves. Safety glasses. Safety shoes or boots.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. ISO 16321-1. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection:

Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated.

Hand protection:

When there is a risk of contact with the skin, use waterproof gloves, resistant to chemical products. Gloves must be felt-lined. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

8.2.2.3. Respiratory protection

Respiratory protection:

Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: in presence of oil mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols (P). In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with a filter for organic vapours (A), and H₂S (B) where applicable. (EN 136/140/145). Combined gas/dust mask with filter type: EN 14387. Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145). Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H₂S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

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8.2.2.4. Thermal hazards

Thermal hazard protection:

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not discharge the product into the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Consumer exposure controls:

At room temperature: No special requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|--|
| Physical state | : Liquid |
| Colour | : dark yellow. |
| Odour | : Slight odour of petroleum. |
| Odour threshold | : There are no data available on the preparation/mixture itself. |
| Melting point | : Not applicable |
| Freezing point | : Lack of data (on mixture / components of the mixture) - Data not available |
| Softening point | : -39 °C (ASTM D 5950) |
| Boiling point | : > 200 °C (ASTM D 1160) |
| Flammability | : Not flammable |
| Lower explosion limit | : Not determined |
| Upper explosion limit | : Not determined |
| Flash point | : ≥ 220 °C (ASTM D 92) |
| Auto-ignition temperature | : ≥ 300 °C (DIN 51794) |
| Decomposition temperature | : Lack of data (on mixture / components of the mixture) - Data not available |
| pH | : Lack of data (on mixture / components of the mixture) - Data not available |
| Viscosity, kinematic | : 12,5 - 16,3 mm ² /s (100 °C) (ASTM D 445) |
| Solubility | : Water: Immiscible and insoluble |
| Log Kow | : Not applicable for mixtures |
| Log Pow | : Not applicable for mixtures |
| Vapour pressure | : < 0.1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010) |
| Vapour pressure at 50°C | : Not determined |
| Density | : 868 kg/m ³ (ASTM D 4052) |
| Relative density | : Lack of data (on mixture / components of the mixture) - Data not available |
| Relative vapour density at 20°C | : > 1 (according to composition) |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

10.2. Chemical stability

Stable product, according to its intrinsic properties.

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10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

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

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) |

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|-----------------------|-------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401) |
| LD50 dermal rat | > 5000 mg/kg (OECD 402) |
| LC50 Inhalation - Rat | > 5 mg/l/4h (OECD 403) |

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)

| | |
|-----------------------|-------------|
| LD50 oral rat | 3080 mg/kg |
| LD50 dermal rabbit | 20000 mg/kg |
| LC50 Inhalation - Rat | 2.3 mg/l/4h |

Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19cSt at 40 °C).] (64741-88-4)

| | |
|-----------------------|------------------------------|
| LD50 oral rat | 5000 mg/kg bodyweight |
| LD50 dermal rabbit | 2000 – 5000 mg/kg bodyweight |
| LC50 Inhalation - Rat | 2.18 – 5.53 mg/l/4h |

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

| | |
|-----------------------|-----------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401) |
| LD50 dermal rat | > 5000 mg/kg (OECD 402) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 5.53 mg/l/4h (EBSI, 1988) |

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

| | |
|---------------|-------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401) |
|---------------|-------------------------|

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| | |
|---|---|
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| LD50 dermal rat | > 5000 mg/kg (OECD 402) |
| LC50 Inhalation - Rat | > 5 mg/l/4h (OECD 403) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) | |
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Lack of data (on mixture / components of the mixture) - Data not available |
| Additional information | : (according to composition) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| pH | Not applicable |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) | |
| pH | Not applicable |
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| pH | Not applicable |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) | |
| pH | Not applicable |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: Lack of data (on mixture / components of the mixture) - Data not available |
| Additional information | : (according to composition) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| pH | Not applicable |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) | |
| pH | Not applicable |
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| pH | Not applicable |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) | |
| pH | Not applicable |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |

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| | |
|------------------------|--|
| Additional information | : (according to composition) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) This product contains : Lubricating oils (petroleum), C24-50, solvent-extd, dewaxed, hydrogenated; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16cSt to 75cSt at 40 °C (104 °F).], Distillates (petroleum), solvent-dewaxed heavy paraffinic, Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), solvent-refined light paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C).], Distillates (petroleum), solvent-refined heavy naphthenic, Distillates (petroleum), solvent-dewaxed light paraffinic this product has a value of DMSO extract < 3 % wt, according to IP 346. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic. |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) |

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

| | |
|---------------------------|-----------------------|
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight |
|---------------------------|-----------------------|

| | |
|------------------------|---|
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Additional information | : (according to composition) |

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day (OECD TG 408) |
|----------------------------|--|

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

| | |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day (OECD TG 408) |
|----------------------------|--|

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

| | |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight/day (OECD TG 408) |
|----------------------------|--|

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

| | |
|--|---|
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| LOAEL (dermal, rat/rabbit, 90 days) | 100 mg/kg bodyweight/day |
| NOAEL (oral, rat, 90 days) | < 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408) |
| NOAEL (dermal, rat/rabbit, 90 days) | ≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| NOAEC (inhalation, rat, vapour, 90 days) | 220 – 980 mg/m ³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412) |

| | |
|-------------------|---|
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
|-------------------|---|

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Additional information : (according to composition)

| Eni Multitech 10W-40 | |
|--|--|
| Viscosity, kinematic | 12,5 - 16,3 mm ² /s (100 °C) (ASTM D 445) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Viscosity, kinematic | < 20.5 mm ² /s (40 °C) (ASTM D 445) |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) | |
| Viscosity, kinematic | 40 mm ² /s (40 °C) (ASTM D 445) |
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| Viscosity, kinematic | 14.5 – 16.5 mm ² /s (40°C, ASTM D 445) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0) | |
| Viscosity, kinematic | 91 – 99 mm ² /s (40 °C) (ASTM D 445) |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|--|--|
| phenol, (tetrapropenyl) derivatives (74499-35-7) | The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3) |

11.2.2. Other information

Potential adverse human health effects and symptoms : Irritating to eyes,Avoid all eye and skin contact and do not breathe vapour and mist
Other information : None

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.

Ecology - water : This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|--|--------------------|
| LC50 fish 1 | > 100 mg/l (LL 50) |

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| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
|---|---|
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9) | |
| LC50 fish 1 | 1 – 10 mg/l |
| EC50 Daphnia 1 | 5.4 mg/l |
| EC50 96h - Algae [1] | 2 – 2.1 mg/l |
| Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4) | |
| LC50 fish 1 | 100 mg/l |
| EC50 Daphnia 1 | 10 g/l |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7) | |
| LC50 fish 1 | > 100 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |
| Distillates (petroleum), solvent-refined light paraffinic (64741-89-5) | |
| LC50 fish 1 | > 100 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| LC50 fish 1 | > 100 mg/l (LL 50, Exxon 1995 - OECD 203) |
| EC50 Daphnia 1 | > 10000 mg/l (EL50, Shell 1988 - OECD 202) |
| NOEC (acute) | ≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h, OECD 201 - Petro-Canada 2008) |
| NOEC chronic fish | ≥ 1000 mg/l (Oncorhynchus mykiss, NOELR, 14d - QSAR, Redman, A. et al. 2010) |
| NOEC chronic crustacea | ≥ 1000 mg/l (21d, OECD 211 - Shell 1994) |
| NOEC chronic algae | ≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h) |
| 12.2. Persistence and degradability | |
| Eni Multitech 10W-40 | |
| Persistence and degradability | The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) | |
| Persistence and degradability | The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.. |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9) | |
| Persistence and degradability | Rapidly degradable |
| Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4) | |
| Persistence and degradability | Rapidly degradable |
| phenol, (tetrapropenyl) derivatives (74499-35-7) | |
| Persistence and degradability | Rapidly degradable |

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Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7)

| | |
|-------------------------------|---|
| Persistence and degradability | The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.. |
|-------------------------------|---|

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

| | |
|-------------------------------|---|
| Persistence and degradability | The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.. |
|-------------------------------|---|

| | |
|----------------|------------------------|
| Biodegradation | 31 % (28d, Exxon 1995) |
|----------------|------------------------|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|-------------------------------|---|
| Persistence and degradability | The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.. |
|-------------------------------|---|

| | |
|----------------|------------------------|
| Biodegradation | 31 % (28d, Exxon 1995) |
|----------------|------------------------|

12.3. Bioaccumulative potential

Eni Multitech 10W-40

| | |
|---------|-----------------------------|
| Log Pow | Not applicable for mixtures |
|---------|-----------------------------|

| | |
|---------|-----------------------------|
| Log Kow | Not applicable for mixtures |
|---------|-----------------------------|

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

| | |
|---------------------------|---|
| Bioaccumulative potential | The test methods for this endpoint are not applicable to UVCB substances. |
|---------------------------|---|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|------------|-----------------|
| BCF fish 1 | 0.4 – 6280 l/kg |
|------------|-----------------|

| | |
|------------|-------------------|
| BCF fish 2 | 3.16 – 71100 l/kg |
|------------|-------------------|

| | |
|---------|--------------|
| Log Pow | 1.99 – 18.02 |
|---------|--------------|

| | |
|---------|-----------------------|
| Log Kow | Not applicable (UVCB) |
|---------|-----------------------|

| | |
|---------------------------|---|
| Bioaccumulative potential | The test methods for this endpoint are not applicable to UVCB substances. |
|---------------------------|---|

12.4. Mobility in soil

Eni Multitech 10W-40

| | |
|------------------|----------------|
| Mobility in soil | Not determined |
|------------------|----------------|

| | |
|----------------|--------------------|
| Ecology - soil | No data available. |
|----------------|--------------------|

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)

| | |
|----------------|---|
| Ecology - soil | This product is not soluble in water. It floats on water and forms a film on the surface. |
|----------------|---|

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

| | |
|---------|-------------|
| Log Koc | 1.71 – 14.7 |
|---------|-------------|

| | |
|----------------|---|
| Ecology - soil | The test methods for this endpoint are not applicable to UVCB substances. |
|----------------|---|

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12.5. Results of PBT and vPvB assessment

Eni Multitech 10W-40

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

| | |
|--------------------------------|---|
| Results of PBT-vPvB assessment | The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1) |
|--------------------------------|---|

Component

| | |
|---|---|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4), phenol, (tetrapropenyl) derivatives (74499-35-7)(¹), Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Distillates (petroleum), solvent-refined heavy paraffinic, Baseoil - unspecified (64741-88-4), phenol, (tetrapropenyl) derivatives (74499-35-7)(¹), Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] (64742-54-7), Distillates (petroleum), solvent-refined light paraffinic (64741-89-5), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) |

(¹) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

Component

| | |
|--|--|
| phenol, (tetrapropenyl) derivatives (74499-35-7) | The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3) |
|--|--|

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of the product, either new or used, by dumping on the ground, or discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.

Sewage disposal recommendations : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.

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Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral-based non-chlorinated engine, gear and lubricating oils). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product, alterations and contaminations.

EURAL code (EWC) : 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.4. Packing group | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.5. Environmental hazards | | | | |
| Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| None. | | | | |

14.6. Special precautions for user

Overland transport

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

Inland waterway transport

Not regulated.

Rail transport

Not regulated.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace). Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding). Substances Depleting the Ozone layer (1005/2009) - Annex I Substances (ODP). Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC). Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|--|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | Eni Multitech 10W-40 ; Distillates (petroleum), solvent-dewaxed heavy paraffinic ; Phosphorodithioic acid, mixed O,O-bis(2- ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts ; Distillates (petroleum), solvent-refined light paraffinic | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | Eni Multitech 10W-40 ; Phosphorodithioic acid, mixed O,O-bis(2- ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 30. | phenol, (tetrapropenyl) derivatives | Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively. |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: phenol, (tetrapropenyl) derivatives (EC 616-100-8, CAS 74499-35-7)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).

Relevant national laws on prevention of water pollution.

Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).

National adoption of Directive 2008/98/CE concerning disposal of used oils.

France

| Maladies professionnelles (F) | |
|-------------------------------|---|
| Code | Description |
| RG 36 | Diseases caused by oils and fats of mineral or synthetic origin |

Germany

| | |
|--|--|
| Employment restrictions | : Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed. |
| National Rules and Recommendations | : TRGS 400: Hazard assessment for activities involving Hazardous Substances. TRGS 401: Risks resulting from skin contact - identification, assessment, measures. TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure. TRGS 500: Protective measures. TRGS 555: Working instruction and information for workers. TRGS 800: Fire protection measures. TRGS 900: Occupational Exposure Limits. |
| VbF class (D) | : Not applicable. |
| Water hazard class (WGK) (D) | : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). |
| WGK remark | : Classification is carried out on the basis of the Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) of 18 April 2017 (BGBl 2017, Teil I, Nr. 22, Seite 905). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject to the Hazardous Incident Ordinance (12. BImSchV) |

Netherlands

| | |
|--|---|
| Saneringsinspanningen | : C - Minimize discharge |
| SZW-lijst van kankerverwekkende stoffen | : None of the components are listed |
| SZW-lijst van mutagene stoffen | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : phenol, (tetrapropenyl) derivatives is listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : None of the components are listed |

Denmark

| | |
|-----------------------------|---|
| Danish National Regulations | : Young people under 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with it |
|-----------------------------|---|

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been not carried out

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A chemical safety assessment has been carried out for the following components of this mixture::

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]

Distillates (petroleum), solvent-refined light paraffinic

SECTION 16: Other information

Indication of changes

| Section | Changed item | Change | Comments |
|---------|--------------|--------|----------|
| | First issue. | | |

Abbreviations and acronyms:

| | |
|-------|---|
| | Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product. |
| | N/D = not available |
| | N/A = not applicable |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Effective concentration for 50 percent of test population (median effective concentration) |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal concentration for 50 percent of test population (median lethal concentration) |
| LD50 | Lethal dose for 50 percent of test population (median lethal dose) |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006 |
| RID | Regulation concerning the International Carriage of Dangerous Goods by Railways |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |

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SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Abbreviations and acronyms:

| | |
|------|--|
| vPvB | Very Persistent and Very Bioaccumulative |
|------|--|

| | |
|-------------------|--|
| Data sources | : This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers. |
| Training advice | : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet. |
| Other information | : Do not use the product for any purposes that have not been advised by the manufacturer. In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H ₂ S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. If this possibility is suspected, a specific assessment of inhalation risks from the presence of H ₂ S in confined spaces must be made, to help determine prevention measures and controls (i.e. PPE) appropriate to local circumstances, and adequate emergency procedures. If there is any suspicion of inhalation of H ₂ S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. Therefore, it is very important to follow the above mentioned precautionary measures also with used oils. |

Full text of H- and EUH-statements:

| | |
|-------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H360F | May damage fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| | | |
|-------------------|------|--------------------|
| Eye Irrit. 2 | H319 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.