



Eni i-Sint tech Eco F 5W-20

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Revision date: 04/05/2022 Supersedes: 28/02/2018 Version: 3.0

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

1.1. Product identifier

| | |
|-----------------|-------------------------------|
| Product form | : Mixture |
| Trade name | : Eni i-Sint tech Eco F 5W-20 |
| Product code | : 1018 |
| Type of product | : Lubricants |
| Formula | : 0017-2013 |
| 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 | : Professional use, Consumer use |
| Industrial/Professional use spec | : Used in closed systems Wide dispersive use |
| Use of the substance/mixture | : Lubricant for internal combustion engines ----- 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

ENI S.p.A.
P.le E. Mattei 1 - 00144 Rome Italy
Phone: (+39) 06 59821
www.eni.com

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

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | : CNIT +39 0382 24444 (24h) (IT + EN) Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO) |
|------------------|---|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

| | |
|-------------------------|---|
| CLP Signal word | : - |
| Hazard statements (CLP) | : H412 - Harmful to aquatic life with long lasting effects. |

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Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards (not relevant for classification)

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

| Component | |
|---|--|
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | 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 This substance does 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) |
| Mineral base oil, severely refined (N/A) | 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 This substance does 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) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | 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 This substance does 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) |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | 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 This substance does not meet the criteria for classification as PBT or vPvB. |
| 2,6-Di-tert-butylphenol (128-39-2) | 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 |
| Dodecylphenol, mixed isomers, branched (121158-58-5) | 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 |
| Component | |
| Distillates (petroleum), hydrotreated heavy paraffinic(64742-54-7) | The substance is 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 |
| Mineral base oil, severely refined(N/A) | The substance is 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(64742-54-7) | The substance is 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 |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts(84605-29-8) | The substance is 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 |

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| | |
|---|---|
| 2,6-Di-tert-butylphenol(128-39-2) | The substance is 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 |
| Dodecylphenol, mixed isomers, branched(121158-58-5) | The substance is 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 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP] |
|---|---|-------------|--|
| Distillates (petroleum), hydrotreated heavy paraffinic (Main component, see note [**]) | (CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25 | 80 - 90 | Asp. Tox. 1, H304 |
| Mineral base oil, severely refined (For identification of the substance, see note [*]) | (CAS-No.) N/A (EC-No.) N/A | 1 - 7 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated heavy paraffinic (Additive, see note [**]) | (CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25 | 1 - 5 | Asp. Tox. 1, H304 |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (Additive) | (CAS-No.) 84605-29-8 (EC-No.) 283-392-8 (EC Index-No.) N/A (REACH-no) 01-2119493626-26 | 0,1 - 1 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 |
| 2,6-Di-tert-butylphenol (Additive) | (CAS-No.) 128-39-2 (EC-No.) 204-884-0 (EC Index-No.) N/A (REACH-no) 01-2119490822-33 | 0,02 - 0,12 | Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched Substance included in REACH Candidate List (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)) | (CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (EC Index-No.) 604-092-00-9 (REACH-no) 01-2119513207-49 | 0,01 - 0,03 | Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F 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(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (Additive) | (CAS-No.) 84605-29-8 (EC-No.) 283-392-8 (EC Index-No.) N/A (REACH-no) 01-2119493626-26 | (6,25 ≤C < 100) Skin Irrit. 2, H315 (10 ≤C < 12,5) Eye Irrit. 2, H319 (12,5 ≤C < 100) Eye Dam. 1, H318 |

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| | |
|-------|--|
| Notes | <p>: [*] Note: this product may be formulated with one or more of the following severely refined mineral base oils (not classified as hazardous): CAS 101316-72-7/EC 309-877-7/REACH Reg. # 01-2119489969-06-xxxx; CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-01-4/EC 265-101-6/REACH Reg. # 01-2119488707-21-xxxx; CAS 72623-87-1/EC 276-738-4/REACH Reg. # 01-2119474889-13-xxxx; CAS 64742-71-8/EC 265-176-5/REACH Reg. # 01-2119485040-48-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx. All these substances have a value < 3 % wt of DMSO extract, according to IP 346 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3) 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.</p> |
|-------|--|

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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|---------------------------------------|---|
| 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. See also section 4.3. |
| First-aid measures after skin contact | : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Body hypothermia must be avoided. 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. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. |
| First-aid measures after ingestion | : Do not induce vomiting to avoid aspiration into the lungs. 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 / injuries (general indications) | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| 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 | : Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns. |
| Symptoms/effects after ingestion | : Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Taking into account the taste of the product, however, ingestion of dangerous quantities is very unlikely. |
| 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. If there is any suspicion of inhalation of H₂S (hydrogen sulphide). The casualty should be sent immediately to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

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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.

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 : Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

- Firefighting instructions : Shut off source of product, if possible. Spilled product which is not burning should be covered with sand or foam. If possible, move containers and drums away from danger area. 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 : Personal protection equipment for firefighters (see also sect. 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 accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. 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. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
- Emergency procedures : Notify local authorities according to relevant regulations.

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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.

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 | : Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. Do not use compressed air for filling, discharging, or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well-ventilated area. During transfer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build-up of electric charges. 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. See also Section 16, "Other information". |
| Handling temperature | : This product can be handled at ambient temperatures. |
| Hygiene measures | : 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. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|--------------------------|---|
| Storage conditions | : Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. |
| Incompatible products | : Keep away from: strong oxidants. |
| Storage temperature | : This product can be stored at ambient temperatures. |
| Storage area | : Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution 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. |

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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), hydrotreated heavy paraffinic (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] | 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) [1] | 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) |
|---------------|---|

| | |
|----------------|---|
| KTV (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) [1] | 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) |
|----------------|--|

Mineral base oil, severely refined (N/A)

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] | 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) |
|--------------|---|

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Mineral base oil, severely refined (N/A)

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) [1] | 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) |
|---------------|---|

| | |
|----------------|---|
| KTV (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) [1] | 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 (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] | 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) [1] | 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) |
|---------------|---|

| | |
|----------------|---|
| KTV (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) [1] | 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) |
|----------------|--|

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

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:

Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield). If necessary, refer to national standards or to the EN 166 standard.

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.

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Hand protection:

When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. 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. In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with filter for hydrocarbon vapours. (EN 136/140/145). Combination filter device (DIN EN 141). 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)

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

Consumer exposure controls:

No special requirements necessary, if handled at room temperature.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------|--|
| Physical state | : Liquid |
| Colour | : Yellow to amber. |
| Appearance | : Liquid, bright & clear. |
| Molecular mass | : Not applicable for mixtures |
| Odour | : Slight odour of petroleum. |
| Odour threshold | : There are no data available on the preparation/mixture itself. |
| Melting point | : -39 °C (pour point) (ASTM D 97) |
| Freezing point | : Not applicable |
| Boiling point | : Not determined |
| Flammability | : Not applicable |
| Explosive properties | : None (according to composition). |
| Oxidising properties | : None (according to composition). |
| Explosive limits | : Not determined |
| Lower explosive limit (LEL) | : Not determined |
| Upper explosive limit (UEL) | : Not determined |
| Flash point | : 216 °C (ASTM D 92) |
| Auto-ignition temperature | : Not determined |
| Decomposition temperature | : Not determined |
| pH | : Not applicable. |
| Viscosity, kinematic | : 44 mm ² /s (40 °C) (ASTM D 445) |
| Solubility | : Water: Immiscible and insoluble |
| Log Kow | : Not applicable for mixtures |
| Log Pow | : Not applicable for mixtures |
| Vapour pressure | : Not determined |

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| | |
|----------------------------------|---|
| Vapour pressure at 50 °C | : Not determined |
| Critical pressure | : Not applicable for mixtures |
| Density | : 851 kg/m ³ (15 °C) (ASTM D 4052) |
| Relative density | : Not determined |
| Relative vapour density at 20 °C | : Not determined |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

| | |
|----------------------|-------------------------------|
| Critical temperature | : Not applicable for mixtures |
|----------------------|-------------------------------|

9.2.2. Other safety characteristics

| | |
|--|---------------------|
| Relative evaporation rate (butylacetate=1) | : Negligible. |
| 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 (in normal conditions of storage and handling).

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. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Toxic fumes. 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 H₂S. See also Section 16, "Other information".

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) |

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|-----------------------|-------------------------|
| 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) |

Mineral base oil, severely refined (N/A)

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

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

| | |
|-----------------------|----------------------------------|
| LD50 oral rat | 3150 mg/kg bodyweight (OECD 401) |
| LD50 dermal rabbit | ≥ 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | ≥ 5 mg/l/4h |

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)

| | |
|--------------------|------------------------------|
| LD50 oral rat | 2100 – 2200 mg/kg bodyweight |
| LD50 dermal rabbit | 15000 mg/kg bodyweight |

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|-----------------------|--|
| LD50 oral rat | > 5000 mg/kg (OECD 401) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (OECD 402) |
| LC50 Inhalation - Rat | > 5,53 mg/l/4h (OECD 403) (EBSI, 1988) |

2,6-Di-tert-butylphenol (128-39-2)

| | |
|--------------------|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 0,5 ml/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Not applicable. |
| Additional information | : (according to composition) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) pH: Not applicable. |
| Additional information | : (according to composition) This product contains components with a Specific Concentration Limit (SCL). This product is formulated with a component which contains substances classified as Eye Dam.1, H318. The component itself has been tested by the manufacturer and has been assessed as NOT irritant to eyes. This result has been used for classification of the final mixture (Bridging principle "Dilution"). |
| 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) |
| Additional information | : (according to composition) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |

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Additional information : (according to composition)
This product contains : 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.]
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.
All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
Additional information : (according to composition)

phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)

| | |
|---------------------------|---------------------|
| NOAEL (animal/male, F1) | 1,5 mg/kg |
| NOAEL (animal/female, F1) | 15 mg/kg (OECD 416) |

Distillates (petroleum), hydrotreated heavy paraffinic (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), hydrotreated heavy paraffinic (64742-54-7)

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

Mineral base oil, severely refined (N/A)

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

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

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

2,6-Di-tert-butylphenol (128-39-2)

| | |
|--|-------------------------------------|
| NOAEL (subacute, oral, animal/male, 28 days) | > 100 mg/kg bodyweight (100 mg / d) |
|--|-------------------------------------|

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Additional information : Viscosity, kinematic: > 20,5 mm²/s (40 °C) (ASTM D 445)

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| | |
|----------------------|--|
| Viscosity, kinematic | 44 mm ² /s (40 °C) (ASTM D 445) |
|----------------------|--|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2 Other information

Potential adverse human health effects and symptoms : Contact with eyes may cause temporary reddening and irritation.
Other information : None

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SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : 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 - air | : This product has a low vapour pressure. A significant exposure may happen only if the product is used at high temperature, or in case of sprays and mists. |
| 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 |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|----------------|-----------------------------------|
| LC50 fish 1 | > 100 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |

Mineral base oil, severely refined (N/A)

| | |
|----------------|-----------------------------------|
| LC50 fish 1 | > 100 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

| | |
|--------------------------------|--|
| LC50 fish 1 | 4,5 mg/l (96h - Oncorhynchus mykiss) (OECD 203) |
| LC50 other aquatic organisms 2 | ≥ 10000 mg/l (3h - Bacteria) |
| EC50 Daphnia 1 | 23 mg/l (48h) (OECD 202) |
| ErC50 (algae) | 21 mg/l (72h - Desmodesmus subspicatus) (OECD 201) |
| NOEC (chronic) | 0,4 mg/l (21d - Daphnia magna) |

Dodecylphenol, mixed isomers, branched (121158-58-5)

| | |
|--------------------------------|-------------------------------------|
| LC50 fish 1 | 40 mg/l (Pimephales promelas) |
| EC50 Daphnia 1 | 0,037 mg/l |
| EC50 other aquatic organisms 1 | > 0,58 mg/l (96h, Mysidopsis Bahia) |
| EC50 72h - Algae [1] | 0,36 mg/l |
| ErC50 (algae) | 0,36 mg/l (21d) |
| NOEC (chronic) | 0,0037 mg/l (21d) |

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|----------------|-----------------------------------|
| LC50 fish 1 | > 100 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |

2,6-Di-tert-butylphenol (128-39-2)

| | |
|--------------------------------|--|
| LC50 fish 1 | 1,4 mg/l Test organisms (species): Pimephales promelas |
| LC50 other aquatic organisms 1 | 0,45 mg/l |
| EC50 Daphnia 1 | 0,45 mg/l Test organisms (species): Daphnia magna |

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| | |
|------------------------|--|
| EC50 72h - Algae [1] | 3,6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 1,4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 3,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [2] | 1,2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 0,086 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0,035 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic crustacea | 0,035 mg/l (21d) |

12.2. Persistence and degradability

Eni i-Sint tech Eco F 5W-20

| | |
|-------------------------------|--|
| 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), hydrotreated heavy paraffinic (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. |
|-------------------------------|--|

Mineral base oil, severely refined (N/A)

| | |
|-------------------------------|--|
| 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(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

| | |
|----------------|--------------------------|
| Biodegradation | 1,5 % (28d) (OECD 301 B) |
|----------------|--------------------------|

Dodecylphenol, mixed isomers, branched (121158-58-5)

| | |
|----------------|----------------------------|
| Biodegradation | 25 % (28 d, OECD TG 301 B) |
|----------------|----------------------------|

Distillates (petroleum), hydrotreated heavy paraffinic (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. |
|-------------------------------|--|

2,6-Di-tert-butylphenol (128-39-2)

| | |
|----------------|------------------------------|
| Biodegradation | 24 % (Zahn-Wellens, 10-20 %) |
|----------------|------------------------------|

12.3. Bioaccumulative potential

Eni i-Sint tech Eco F 5W-20

| | |
|---------------------------|-----------------------------|
| Log Pow | Not applicable for mixtures |
| Log Kow | Not applicable for mixtures |
| Bioaccumulative potential | Not established. |

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Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)

| | |
|---------|------|
| Log Pow | 0,56 |
|---------|------|

Dodecylphenol, mixed isomers, branched (121158-58-5)

| | |
|-------------------------------------|--------|
| Bioconcentration factor (BCF REACH) | 794,33 |
| Log Kow | 7,14 |

2,6-Di-tert-butylphenol (128-39-2)

| | |
|---------|----------------------|
| Log Kow | 4,5 (0.1 d, 10-20 %) |
|---------|----------------------|

12.4. Mobility in soil

Eni i-Sint tech Eco F 5W-20

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

12.5. Results of PBT and vPvB assessment

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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

| | |
|---|--|
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | 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 This substance does 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) |
| Mineral base oil, severely refined (N/A) | 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 This substance does 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) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | 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 This substance does 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) |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8) | 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 This substance does not meet the criteria for classification as PBT or vPvB. |
| 2,6-Di-tert-butylphenol (128-39-2) | 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 |
| Dodecylphenol, mixed isomers, branched (121158-58-5) | 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 |

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

- Other adverse effects : None
- Additional information : This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suited for the specific purpose.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector. Dispose of empty containers and wastes safely.
- Sewage disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.
- 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.
- Additional information : Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.
- Ecology - waste materials : The product as it is does not contain halogenated substances.
- 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 applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| None. | | | | |

14.6. Special precautions for user

- Special transport precautions : None.

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

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Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| Reference code | Applicable on | Entry title or description |
|----------------|---|---|
| 3(b) | Mineral base oil, severely refined ; Distillates (petroleum), hydrotreated heavy paraffinic ; Distillates (petroleum), hydrotreated heavy paraffinic ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl 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 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 i-Sint tech Eco F 5W-20 ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl 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 |

No ingredients are included in the REACH Candidate list ($> 0,1 \text{ \% m/m}$). $\geq 0,1 \text{ \%}$ / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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 ArbSchG in the case of formation of hazardous substances have to be observed. |
| Water hazard class (WGK) (D) | : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1) |
| WGK remark | : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) |
| National Rules and Recommendations | : TRGS 900: Occupational Exposure Limits TRGS 800: Fire protection measures TRGS 555: Working instruction and information for workers TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure TRGS 401: Risks resulting from skin contact - identification, assessment, measures TRGS 400: Hazard assessment for activities involving Hazardous Substances |
| Storage class (LGK, TRGS 510) | : LGK 12 - Non-combustible liquids |
| VbF class (D) | : Not applicable. |

Netherlands

| | |
|-----------------------|--------------------------|
| Saneringsinspanningen | : C - Minimize discharge |
|-----------------------|--------------------------|

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| | |
|--|---|
| 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 | : Dodecylphenol, mixed isomers, branched 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 |
| Switzerland | |
| Storage class (LK) | : LK 10/12 - Liquids |

15.2. Chemical safety assessment

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]
No chemical safety assessment has been carried out

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

Distillates (petroleum), hydrotreated heavy paraffinic
Distillates (petroleum), hydrotreated heavy paraffinic
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts
2,6-Di-tert-butylphenol

SECTION 16: Other information

Indication of changes:

| Section | Changed item | Change | Notes |
|---------|--|----------|-------|
| | SDS EU format according to COMMISSION REGULATION (EU) 2020/878 | | |
| | Version | | |
| | Revision date | | |
| | Date of issue | | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP] | Added | |
| 2.2 | Precautionary statements (CLP) | Added | |
| 2.2 | Hazard statements (CLP) | Added | |
| 3 | Composition/information on ingredients | Modified | |

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 |

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| | |
|-------|--|
| 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 |
| 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. |

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 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |

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| | |
|---------------|---|
| Skin Irrit. 2 | Skin corrosion/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. |

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

| | | |
|-------------------|------|--------------------|
| 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.