



Eni Arnica LT 15

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Revision date: 24/01/2018

Version: 2.0

Supersedes: 26/10/2015

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

1.1. Product identifier

Product form : Mixture
Trade name : Eni Arnica LT 15
Product code : 7552
Type of product : Lubricants
Formula : 2401-2018
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
Industrial/Professional use spec : Wide dispersive use
Used in closed systems
Use of the substance/mixture : Functional fluids
Hydraulic oil

Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category : Hydraulic fluids 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

Contact:
Refining & Marketing
Via Laurentina 449 - 00142 Rome Italy
Phone: (+39) 06 59881 - Fax (+39) 06 59885700

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]

Asp. Tox. 1 H304

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways. Contact with eyes may cause temporary reddening and irritation. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. 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]

Hazard pictograms (CLP) :



GHS08

CLP Signal word :

Danger

Hazardous ingredients and/or with relevant occupational exposure limits :

Contains: Distillates (petroleum) hydrotreated light paraffinic

Hazard statements (CLP) :

H304 - May be fatal if swallowed and enters airways.

Precautionary statements (CLP) :

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P331 - Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents and container to according to national or local regulations.

EUH-statements :

EUH208 - Contains Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl. May produce an allergic reaction.

Security closing plug for children :

Not applicable

Tactile warning :

Not applicable

Other:

General advice :

(Not applicable - Classified as dangerous according to (EC) No 1272/2008)

2.3. Other hazards (not relevant for classification)

Physical/chemical :

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.

Health :

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.

Environment :

None

Contaminants :

(air contaminants or other substances)

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 Heading 16

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Composition/information on ingredients : Petroleum distillates
Additives

Hazardous ingredients and/or with : See table
relevant occupational exposure limits

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP] |
|--|--|-----------|--|
| Distillates (petroleum) hydrotreated light paraffinic (Main component, see note [**]) | (CAS-No.) 64742-55-8 (EC-No.) 265-158-7 (EC Index-No.) 649-468-00-3 (REACH-no) 01-2119487077-29 | 60 - 70 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated heavy paraffinic (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 | 20 - 30 | Not classified |
| Mineral base oil, severely refined (For identification of the substance, see note [*]) | | 0,5 - 2 | Asp. Tox. 1, H304 |
| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl (Additive) | (EC-No.) 943-540-0 (EC Index-No.) N/A (REACH-no) 01-2120120371-74 | 0,1 - 0,5 | Skin Sens. 1, H317 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 | 0,1 - 0,2 | Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

[*] 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 346/92 (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 346/92. 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.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In case of spontaneous vomiting, transport the victim to a hospital, to verify the possibility that the product has been aspired into the lungs.

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 | : In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. 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. Do not give anything by mouth to an unconscious person. In case of ingestion, always assume that aspiration has occurred. Immediately consult a doctor/medical service. |

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 | : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by 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 | : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The effects may be delayed. |
| 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. In case of ingestion, always assume that aspiration has occurred. Send the casualty immediately to hospital. 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.

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 | : The vapours are flammable and may form explosive mixtures with air. |
| Combustion products | : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO _x , H ₂ S and SO _x (harmful/toxic gases), Oxygenated compounds (aldehydes, etc.) |

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). EN 443. EN 469. EN 659. 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. |
| 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 H ₂ S), 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. |

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.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

| Distillates (petroleum) hydrotreated light paraffinic (64742-55-8) | | |
|---|--|--|
| Austria | MAK (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (langvarig) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (kortvarig) (mg/m ³) | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Hungary | AK-érték | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Netherlands | MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Nivågränsvärde (NVG) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Kortidsvärde (KTV) (mg/m ³) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |

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| | | |
|--|--|--|
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom | WEL STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VECD (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VEMP (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (STEL) (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | | |
| Austria | MAK (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (langvarig) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (kortvarig) (mg/m ³) | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Hungary | AK-érték | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Netherlands | MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Nivågränsvärde (NVG) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Kortidsvärde (KTV) (mg/m ³) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom | WEL STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VECD (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VEMP (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (STEL) (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |

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| Mineral base oil, severely refined | | |
|------------------------------------|--|--|
| Austria | MAK (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (langvarig) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Denmark | Grænseværdi (kortvarig) (mg/m ³) | 2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Hungary | AK-érték | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Netherlands | MAC TGG 8h (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Spain | VLA-EC (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Nivågränsvärde (NVG) (mg/m ³) | 1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Sweden | Kortidsvärde (KTV) (mg/m ³) | 3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom | WEL TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| United Kingdom | WEL STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VECD (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| Canada (Quebec) | VEMP (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-TWA (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - ACGIH | ACGIH TLV®-STEL (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - NIOSH | NIOSH REL (STEL) (mg/m ³) | 10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) |

| Eni Arnica LT 15 | |
|------------------------------------|----------------|
| DNEL/DMEL (additional information) | |
| Additional information | Not applicable |
| PNEC (additional information) | |
| Additional information | Not applicable |

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.

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.

8.2. Exposure 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". |
| Personal protective equipment (for industrial or professional use) | : Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask. |
|  | |
| Hand protection | : Protective 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. |
| 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. |
| 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. |
| 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). 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). 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) |
| Thermal hazard protection | : If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. |
| 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 | : Not applicable. |

8.3. Hygiene measures

| | |
|--|--|
| General protective and hygienic measures | : Avoid contact with skin and eyes, Do not breathe vapours or mists, Do not clean hands with dirty or oil-soaked rags, Do not keep dirty rags in the overall pockets, Do not drink, eat or smoke with dirty hands, Wash hands with water and mild soap, do not use solvents or other irritant products which have a defatting effect on the skin, Do not re-use clothes, if they are still contaminated. |
|--|--|

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Liquid, bright & clear. |
| Molecular mass | : Not applicable for mixtures |
| Colour | : Yellow-brown. |
| Odour | : Slight odour of petroleum. |
| Odour threshold | : There are no data available on the preparation/mixture itself. |
| pH | : Not applicable. |
| Relative evaporation rate (butylacetate=1) | : Negligible. |
| Melting point | : -50 °C (pour point) (ASTM D 97) |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 150 °C (ASTM D 92) |
| Critical temperature | : Not applicable for mixtures |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Critical pressure | : Not applicable for mixtures |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 855 kg/m ³ (15 °C) (ASTM D 4052) |
| Solubility | : Water: Immiscible and insoluble |
| Log Pow | : Not applicable for mixtures |
| Log Kow | : Not applicable for mixtures |
| Viscosity, kinematic | : 14 - 16,5 mm ² /s (40 °C) (ASTM D 445) |
| Viscosity, dynamic | : No data available |
| Explosive properties | : None (according to composition). |
| Oxidising properties | : None (according to composition). |
| Explosive limits | : No data available |

9.2. Other information

Additional information : No data available

The above data (9.1 - 9.2) are typical values and do not constitute a specification.

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 strong oxidizers. 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 toxicological effects

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

| Distillates (petroleum) hydrotreated light paraffinic (64742-55-8) | |
|--|------------------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401) |
| LD50 dermal rat | > 5000 mg/kg (OECD 402) |
| 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 (mg/l) | > 5 mg/l/4h (OECD 403) |
| Mineral base oil, severely refined | |
| LD50 oral rat | ≥ 5000 mg/kg bodyweight (OECD 401) |
| LD50 dermal rat | ≥ 5000 mg/kg bodyweight (OECD 402) |
| LC50 inhalation rat (mg/l) | ≥ 5 mg/l/4h (OECD 403) |
| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl | |
| LD50 oral rat | 2000 - 5000 mg/kg bodyweight |
| LD50 dermal rat | 2000 mg/kg bodyweight |
| 2,6-Di-tert-butylphenol (128-39-2) | |
| LD50 oral rat | 5000 mg/kg bodyweight |
| LD50 dermal rat | 1000 - 33000 mg/kg bodyweight |
| LD50 dermal rabbit | 0,5 ml/kg |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met) (according to composition)
pH: Not applicable.

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met) (according to composition)
pH: Not applicable.

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) (according to composition)
Contains a sensitizer (Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl). Amount contained in the product: 0,1 ÷ 0,99 % m/m max.
Exposure may produce an allergic reaction

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) (according to composition)

| | |
|------------------------|--|
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) (according to composition) This product contains : Distillates (petroleum), hydrotreated light 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 C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.], 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 346/92. 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 346/92 (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) (according to composition) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) (according to composition) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) (according to composition) |

| | |
|--|--|
| Distillates (petroleum) hydrotreated light paraffinic (64742-55-8) | |
| 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) |
| Mineral base oil, severely refined | |
| 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 | : May be fatal if swallowed and enters airways. (according to composition) For all low-viscosity petroleum products (less than 20,5 mm ² /s at 40 °C), there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflammation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. |
|-------------------|---|

| | |
|-------------------------|---|
| Eni Arnica LT 15 | |
| Viscosity, kinematic | 14 - 16,5 mm ² /s (40 °C) (ASTM D 445) |

| | |
|---|---|
| Potential adverse human health effects and symptoms | : Aspiration into lungs can cause a chemical pneumonia. May be fatal if swallowed and enters airways. Contact with eyes may cause temporary reddening and irritation. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. 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 (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)

| Distillates (petroleum) hydrotreated light paraffinic (64742-55-8) | |
|---|---|
| LC50 fish 1 | 100 - 10000 mg/l (LL 50) |
| EC50 Daphnia 1 | > 10000 mg/l WAF, 48 h (OECD 202) |
| NOEC (chronic) | 10 - 1000 mg/l (NOELR, Daphnia Magna) |
| NOEC chronic algae | 100 mg/l (72h, Pseudokirchneriella subcapitata) |

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

| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl | |
|--|--|
| EC50 Daphnia 1 | 8,3 mg/l |
| EC50 other aquatic organisms 1 | 340 mg/l Mud, slime |
| NOEC chronic algae | 0,32 mg/l (72h, Pseudokirchneriella subcapitata) |

| 2,6-Di-tert-butylphenol (128-39-2) | |
|---|------------------|
| LC50 fish 1 | 1,4 mg/l |
| LC50 other aquatic organisms 1 | 0,45 mg/l |
| NOEC chronic crustacea | 0,035 mg/l (21d) |

12.2. Persistence and degradability

| Eni Arnica LT 15 | |
|-------------------------------|--|
| 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 light paraffinic (64742-55-8) | |
|---|--|
| 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 | < 60 % (28d) |

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

| Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl | |
|--|---------------------------|
| Biodegradation | 24 % (28d, OECD TG 301 B) |

| 2,6-Di-tert-butylphenol (128-39-2) | |
|---|------------------------------|
| Biodegradation | 24 % (Zahn-Wellens, 10-20 %) |

12.3. Bioaccumulative potential

| Eni Arnica LT 15 | |
|---------------------------|-----------------------------|
| Log Pow | Not applicable for mixtures |
| Log Kow | Not applicable for mixtures |
| Bioaccumulative potential | Not established. |

| Distillates (petroleum) hydrotreated light paraffinic (64742-55-8) | |
|---|-----|
| Log Kow | < 1 |

Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl

| | |
|---|----------------------|
| Log Kow | 5,14 (25°C) |
| 2,6-Di-tert-butylphenol (128-39-2) | |
| Log Kow | 4,5 (0.1 d, 10-20 %) |

12.4. Mobility in soil

Eni Arnica LT 15

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

12.5. Results of PBT and vPvB assessment

Eni Arnica LT 15

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 () | 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 light paraffinic (64742-55-8) | 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. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1) |

12.6. 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 / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 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 |
| 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 | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| Other information : None. | | | | |

14.6. Special precautions for user

Special transport precautions : None.

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

Limited quantities (IMDG) : Not applicable

- Air transport

Transport regulations (IATA) : Not subject

- Inland waterway transport

Transport regulations (ADN) : Not subject

- Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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:

| | |
|--|---|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | 2,6-Di-tert-butylphenol - Distillates (petroleum) hydrotreated light paraffinic |
| 3(b) 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 | Eni Arnica LT 15 - Mineral base oil, severely refined - 2,6-Di-tert-butylphenol - Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl - Distillates (petroleum) hydrotreated light paraffinic |
| 3(c) 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 | 2,6-Di-tert-butylphenol - Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl |

No ingredients are included in the REACH Candidate list (> 0,1 % m/m).

Contains no REACH Annex XIV substances

Relevant EU Legislation : 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 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)
Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances)
Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds)

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 Directives 75/439/CEE - 87/101/CEE concerning disposal of used oils.

France

Maladies professionnelles (F) : RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse

Germany

VwVwS Annex reference : Water hazard class (WGK) (D) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)
VbF class (D) : Not applicable.
Storage class (LGK) (D) : LGK 12 - Non-combustible liquids
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.
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Other information, restrictions and prohibition regulations : 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

Netherlands

Saneringsinspanningen : C - Lozing minimaliseren
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : 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

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

Distillates (petroleum), hydrotreated heavy paraffinic
 Mineral base oil, severely refined
 2,6-Di-tert-butylphenol
 Reaction Products of Diphosphorus Pentaoxide with Alcohols, C14-18 even, salted with Amines, C12-14, Tert-alkyl
 Distillates (petroleum) hydrotreated light paraffinic

SECTION 16: Other information

Indication of changes:

Other information.

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 |
| 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 H₂S. 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 H₂S 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 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.

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 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| 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. |
| EUH208 | Contains . May produce an allergic reaction. |

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

| | | |
|-------------|------|--------------------|
| Asp. Tox. 1 | H304 | 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