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

#### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Mixture</td>
</tr>
<tr>
<td>Trade name</td>
<td>Eni Fresia ESB 25</td>
</tr>
<tr>
<td>Product code</td>
<td>5213</td>
</tr>
<tr>
<td>Type of product</td>
<td>Lubricants</td>
</tr>
<tr>
<td>Formula</td>
<td>0910-2017</td>
</tr>
<tr>
<td>Product group</td>
<td>Trade product</td>
</tr>
</tbody>
</table>

#### 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

**Use of the substance/mixture**: Metalworking fluid

---

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 ROMA Italy

Tel (+39) 06 59821

www.eni.com

Contact:

Refining & Marketing

Via Laurentina 449 00142 ROMA Italy

Tel (+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]**

Not classified
Adverse physicochemical, human health and environmental effects
Prolonged or repeated skin contact may cause a slight transient irritation. Contact with eyes may cause temporary redening and irritation. 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]
EUH-statements : EUH210 - Safety data sheet available on request.
Security closing plug for children : Not applicable
Tactile warning : Not applicable

Other:
General advice : None to be reported.

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 an hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop.

Environment : None
Contaminants : None

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 : Synthetic base stock (ester)
                          Mineral base oil, severely refined
                          Additives

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral base oil, severely refined</td>
<td></td>
<td>0,04 - 0,1</td>
<td>Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation: Remove to fresh air, keep the casualty warm and at rest.
First-aid measures after skin contact: Wash skin with plenty of water. If inflammation or irritation persists, seek medical advice.
First-aid measures after eye contact: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation persists, seek medical advice.
First-aid measures after ingestion: Rinse mouth thoroughly with water. Give water to drink if victim completely conscious/alert.

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

Symptoms/effects after inhalation: None under normal conditions at ambient temperatures.
Symptoms/effects after skin contact: Minor irritation may occur after prolonged or repeated contact.
Symptoms/effects after eye contact: Contact with eyes may cause a light transient irritation.
Symptoms/effects after ingestion: None under normal conditions.
Symptoms/effects upon intravenous administration: Chronic symptoms: None to be reported, according to the present classification criteria.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Small-size fires: carbon dioxide, dry chemicals, alcohol-resistant foam, sand or earth. Large fires: alcohol-resistant 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: Not flammable.
Explosion hazard: None.
Combustion products: Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases, Oxygenated compounds (aldehydes, etc.), POx.

5.3. Advice for firefighters

Firefighting instructions: Shut off source of product, if possible. If possible, move containers and drums away from danger area. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.

Special protective equipment for firefighters: Personal protection equipment for firefighters (see also sect. 8). Self-contained breathing apparatus.

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 helmet. Antistatic non-skid safety shoes or boots. Goggles and/or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with combined dust/organic vapour filter(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.

**Methods for cleaning up**: Wash contaminated area with large amounts of water.

**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 and flammability.

**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.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Mineral base oil, severely refined</th>
<th>Austria</th>
<th>MAK (mg/m³)</th>
<th>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>Grænseværdi (langvarig) (mg/m³)</td>
<td>1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>Grænseværdi (kortvarig) (mg/m³)</td>
<td>2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Hungary</td>
<td>AK-érték</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Netherlands</td>
<td>MAC TGG 8h (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>VLA-ED (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>VLA-EC (mg/m³)</td>
<td>10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>Nivågränsvärde (NVG) (mg/m3)</td>
<td>1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>Kortidsvärde (KTV) (mg/m3)</td>
<td>3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VECD (mg/m³)</td>
<td>10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VEMP (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>ACGIH TLV®-TWA (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>ACGIH TLV®-STEL (mg/m³)</td>
<td>10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - NIOSH</td>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
</tbody>
</table>

### Eni Fresia ESB 25

<table>
<thead>
<tr>
<th>DNEL/DMEL (additional information)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEC (additional information)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information</td>
</tr>
</tbody>
</table>

**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 (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability.

**Personal protective equipment (for industrial or professional use)**: Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.

**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.

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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Colour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>There are no data available on the preparation/mixture itself.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Negligible</td>
</tr>
<tr>
<td>Melting point</td>
<td>-12 °C (pour point) (ASTM D 97)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>235 °C (ASTM D 92)</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Critical pressure</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0,9194 g/cm³ (15 °C) (ASTM D 4052)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Immiscible and insoluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable for mixtures</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>26,6 mm²/s (40 °C) (ASTM D 445)</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>None (according to composition)</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None (according to composition)</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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).

**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**
Thermal decomposition may produce: Carbon dioxide, Carbon monoxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>(according to composition)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral base oil, severely refined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>≥ 5000 mg/kg bodyweight (OECD 401)</td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>≥ 5000 mg/kg bodyweight (OECD 402)</td>
<td></td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>≥ 5 mg/l/4h (OECD 403)</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>pH: Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>pH: Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity - Description</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>All the mineral base oils contained in this product have a value &lt; 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
<tr>
<td>Mineral base oil, severely refined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOAEL (oral, rat, 90 days)</td>
<td>= 125 mg/kg bodyweight/day (OECD TG 408)</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
<td>(Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td></td>
<td>(according to composition)</td>
<td></td>
</tr>
</tbody>
</table>

**Eni Fresia ESB 25**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, kinematic</td>
<td>26,6 mm²/s (40 °C) (ASTM D 445)</td>
</tr>
</tbody>
</table>

**Potential adverse human health effects and symptoms**
Prolonged or repeated skin contact may cause a slight transient irritation. Contact with eyes may cause temporary reddening and irritation.
SECTION 12: Ecological information

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

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

Mineral base oil, severely refined
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 100 mg/l (LL 50)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l WAF, 48 h (OECD 202)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
Eni Fresia ESB 25
Persistence and degradability
The most significant constituents of the product should be considered as "readily biodegradable".

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.

12.3. Bioaccumulative potential
Eni Fresia ESB 25
Log Pow
Not applicable for mixtures
Log Kow
Not applicable for mixtures
Bioaccumulative potential
Not established.

12.4. Mobility in soil
Eni Fresia ESB 25
Ecology - soil
No data available.

12.5. Results of PBT and vPvB assessment
Eni Fresia ESB 25
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 as "Not 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 06* (synthetic 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. Dispose of empty, not cleaned containers safely, according to local regulations.

Ecology - waste materials: The product as it is does not contain halogenated substances.

EURAL code (EWC): 13 02 06* - Synthetic engine, gear and lubricating oils

SECTION 14: Transport information

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not regulated for transport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Dangerous for the environment: No</th>
<th>Dangerous for the environment: No</th>
<th>Dangerous for the environment: No</th>
<th>Dangerous for the environment: No</th>
<th>Dangerous for the environment: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant: No</td>
<td>Marine pollutant: No</td>
<td>Marine pollutant: No</td>
<td>Marine pollutant: No</td>
<td></td>
</tr>
</tbody>
</table>

Other information: None.

14.6. Special precautions for user

- Overland transport
  Special transport precautions: None.
  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: None.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
No ingredients are included in the REACH Candidate list (> 0,1 % m/m).
Contains no REACH Annex XIV substances
Eni Fresia ESB 25
Safety Data Sheet
According to Regulation (EU) No. 830/2015

Product code: 5213
Revision date: 09/10/2017
Version: 3.0

Relevant EU Legislation:
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 10 - Combustible liquids
Employment restrictions: Employment prohibitions for the protection of young people at work according to § 22 section 1(6) JArbSchG 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

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:

Mineral base oil, severely refined

SECTION 16: Other information

Indication of changes:

Formula. Modification according to Regulation (EC) 830/2015.

Abbreviations and acronyms:

- N/A = not applicable
- N/D = not available

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.

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

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


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.

Full text of H- and EUH-statements:

Asp. Tox. 1: Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

EUH210: Safety data sheet available on request.
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.