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

1.1. Product identifier

- **Product form**: Mixture
- **Trade name**: Eni Blasia 680
- **Product code**: 2706
- **Type of product**: Lubricants
- **Formula**: 0077-2015
- **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**: Lubricant for gears
  - Do not use the product for any purposes that have not been advised by the manufacturer.
- **Function or use category**: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

Contact:
Refining & Marketing

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*

Contact with eyes may cause temporary reddening 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.

2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification of the substance or mixture:
- This product is combustible, but not classified as Flammable. The creation of flammable...
Eni Blasia 680
Safety Data Sheet

According to Regulation (EU) No. 830/2015

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

Notes : Composition/Information on ingredients:
Mixture of hydrocarbons
Additives

<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>Residual oils (petroleum,) solvent-refined (see note [*])</td>
<td>(CAS-No.) 64742-01-4</td>
<td>&gt;= 95</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 265-101-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 649-459-00-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH no) 01-2119488707-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral base oil, severely refined (For identification of the substance, see note [*])</td>
<td></td>
<td>0,1 - 0,5</td>
<td>Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>

Notes : [*] Note: this product may be formulated with one or more of the following severely refined mineral base oils (not classified as hazardous):
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 after inhalation : Remove to fresh air, keep the casualty warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation. If necessary, give external cardiac massage and obtain medical advice. See also section 4.3.

First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention. 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 eye contact : Remove contact lenses, if present and easy to do so. Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. 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 : Rinse mouth thoroughly with water. Give water to drink if victim completely conscious/alert. Do not induce vomiting.

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

Symptoms/effects after inhalation : Inhalation of fumes or oil mistes produced at high temperatures may cause irritation of the respiratory tract. Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.

Symptoms/effects after skin contact : Contact with hot product may cause thermal burns.

Symptoms/effects after eye contact : Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns.
Eni Blasia 680
Safety Data Sheet

According to Regulation (EU) No. 830/2015

| Symptoms/effects after ingestion         | Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastrointestinal disturbances. |
| Symptoms/effects upon intravenous administration | No information available. |
| Chronic symptoms                          | None to be reported, according to the present classification criteria. |

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. Other extinguishing gases (according to regulations).

Unsuitable extinguishing media: Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard: This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.

Explosion hazard: In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m² of air. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous decomposition products in case of fire: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NOx, H2S and SOx (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.). POx, CaOx.

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). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.

Other information: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flames). 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: Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. 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 filter(s) for organic vapours (AX) (and when applicable for H2S (B)), 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.

27/05/2019
EN (English)
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.

Methods for cleaning up: Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations.

Other information: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Empty 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. The product may release Hydrogen Sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Incompatible products: Strong oxidizing agents.

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. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. 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".

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

Residual oils (petroleum,) solvent-refined (64742-01-4)

<table>
<thead>
<tr>
<th>Country</th>
<th>Control parameter</th>
<th>Value 1</th>
<th>Value 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>MAK (mg/m³)</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Denmark</td>
<td>Grænseværdi (langvarig) (mg/m³)</td>
<td>1 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Denmark</td>
<td>Grænseværdi (kortvarig) (mg/m³)</td>
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</tr>
<tr>
<td>Country</td>
<td>Limit (mg/m³)</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------</td>
<td>------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Hungary</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Netherlands</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>10 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>1 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Sweden</td>
<td>3 mg/m³</td>
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</tr>
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<td>United Kingdom</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>10 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
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<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Mineral base oil, severely refined</td>
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<td></td>
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<tr>
<td>Austria</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Belgium</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Denmark</td>
<td>1 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Denmark</td>
<td>2 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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<tr>
<td>Hungary</td>
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<td>Spain</td>
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<tr>
<td>Spain</td>
<td>10 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>1 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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</tr>
<tr>
<td>Sweden</td>
<td>3 mg/m³</td>
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</tr>
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<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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</tr>
<tr>
<td>United Kingdom</td>
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<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
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<td></td>
</tr>
<tr>
<td>Canada (Quebec)</td>
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<td></td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>5 mg/m³</td>
<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
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</tr>
<tr>
<td>USA - ACGIH</td>
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<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
<tr>
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<tr>
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<td>(Mineral base oil mist, severely refined, DMSO extract &lt;3% m/m)</td>
<td></td>
</tr>
</tbody>
</table>
Eni Blasia 680
Safety Data Sheet
According to Regulation (EU) No. 830/2015

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.

Eni Blasia 680
DNEL/DMEL (additional information)
Additional information: Not applicable

PNEC (additional information)
Additional information: Not applicable

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

8.2. Exposure controls

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

Personal protective equipment (for industrial or professional use):

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. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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: if the product is handled without adequate containment: use full or half-face masks with adequate filter for organic 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)

Personal protective equipment symbol(s):

Thermal hazard protection:
None in normal use conditions.

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 substances 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:
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance: Clear liquid.
- Colour: Yellow-brown.
- Odour: Characteristic.
- Odour threshold: No data available
- pH: No data available
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: -9 °C (pour point) (ASTM D 97)
- Freezing point: No data available
- Boiling point: No data available
- Flash point: 246 °C (ASTM D 92)
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): Not applicable
- Vapour pressure: No data available
- Relative vapour density at 20 °C: No data available
- Relative density: No data available
- Density: 922 kg/m³ (15°C) (ASTM D 4052)
- Solubility: This product is not soluble in water.
- Log Pow: No data available
- Viscosity, kinematic: 680 mm²/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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

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: Carbon dioxide, Carbon monoxide. 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 (oral): Not classified (Based on available data, the classification criteria are not met)
- Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met)
- Acute toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met)
- Additional information: (according to composition)
### Residual oils (petroleum,) solvent-refined (64742-01-4)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5000 mg/kg bodyweight</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>2000 - 5000 mg/kg bodyweight</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>2.18 - 5.53 mg/l/4h</td>
</tr>
</tbody>
</table>

### Mineral base oil, severely refined

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 5000 mg/kg bodyweight (OECD 401)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>≥ 5000 mg/kg bodyweight (OECD 402)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>≥ 5 mg/l/4h (OECD 403)</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation

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

### Additional information:

- (according to composition)

### Serious eye damage/irritation

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

### Respiratory or skin sensitisation

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

### Additional information:

- (according to composition)

### Germ cell mutagenicity

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

### Additional information:

- (according to composition)

### Carcinogenicity

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

### Additional information:

- (according to composition)

#### This product contains:

- Residual oils (petroleum) solvent-refined; Baseoil—unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).] 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) No carcinogenic effect

### Reproductive toxicity

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

### Additional information:

- (according to composition)

### STOT-single exposure

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

### Additional information:

- (according to composition)

### STOT-repeated exposure

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

### Additional information:

- (according to composition)

### Mineral base oil, severely refined

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (oral, rat, 90 days)</td>
<td>125 mg/kg bodyweight/day (OECD TG 408)</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Additional information</td>
<td>Viscosity, kinematic: &gt; 20.5 mm²/s (40 °C) (ASTM D 445)</td>
</tr>
</tbody>
</table>

### Eni Blasia 680

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity, kinematic</td>
<td>680 mm²/s (40 °C) (ASTM D 445)</td>
</tr>
</tbody>
</table>

### Potential adverse human health effects and symptoms

- Contact with eyes may cause temporary reddening and irritation.

### Other information

- None.

### SECTION 12: Ecological information

#### 12.1. Toxicity

### Ecology - general

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

### Ecology - water

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

### Acute aquatic toxicity

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

### Chronic aquatic toxicity

- Not classified (Based on available data, the classification criteria are not met)
12.2. Persistence and degradability

**Eni Blasia 680**

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.

**Residual oils (petroleum,) solvent-refined (64742-01-4)**

Persistence and degradability

Substance is complex UVCB. The test methods for this endpoint are not applicable to UVCB substances.

**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 Blasia 680**

Bioaccumulative potential

Not established.

**Residual oils (petroleum,) solvent-refined (64742-01-4)**

Bioaccumulative potential

The test methods for this endpoint are not applicable to UVCB substances.

12.4. Mobility in soil

**Eni Blasia 680**

Ecology - soil

No data available.

**Residual oils (petroleum,) solvent-refined (64742-01-4)**

Ecology - soil

The test methods for this endpoint are not applicable to UVCB substances.

12.5. Results of PBT and vPvB assessment

**Eni Blasia 680**

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

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

**Component**

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)

Residual oils (petroleum,) solvent-refined (64742-01-4)

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

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

12.6. Other adverse effects

Other adverse effects

: None.

Additional information

: No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Regional legislation (waste)**

: Disposal must be done according to official regulations.

**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.

**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
Eni Blasia 680
Safety Data Sheet

According to Regulation (EU) No. 830/2015

SECTION 14: Transport information
In accordance with ADN / ADR / IATA / IMDG / RID

<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</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

14.6. Special precautions for user

- Overland transport
  Not regulated

- Transport by sea
  Not regulated

- Air transport
  Not regulated

- Inland waterway transport
  Not regulated

- Rail transport
  Not regulated

14.7. Transport in bulk according to Annex II of Marpol 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(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

Mineral base oil, severely refined

No ingredients are included in the REACH Candidate list (> 0.1 % m/m).
Contains no REACH Annex XIV substances

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.
National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).
Relevant national laws on prevention of water pollution.
Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).
National adoption of 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

Reference to AwSV : Water hazard class (WGK) (D) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)
VbF class (D) : Not applicable.
Storage class (LGK) (D) : LGK 10 - 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. BlmSchV (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 - Minimize discharge
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

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with it

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
Residual oils (petroleum,) solvent-refined

SECTION 16: Other information

Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed item</th>
<th>Change</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Formula</td>
<td>Modified</td>
<td>Formulation number</td>
</tr>
<tr>
<td>2.1</td>
<td>Adverse physicochemical, human health and environmental effects</td>
<td>Modified</td>
<td>None</td>
</tr>
<tr>
<td>2.2</td>
<td>EUH-statements</td>
<td>Modified</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
</tr>
<tr>
<td>3</td>
<td>Composition/information on ingredients</td>
<td>Modified</td>
<td>Formulation</td>
</tr>
<tr>
<td>4.2</td>
<td>Symptoms/effects after skin contact</td>
<td>Modified</td>
<td>None</td>
</tr>
<tr>
<td>10.4</td>
<td>Conditions to avoid</td>
<td>Modified</td>
<td>None</td>
</tr>
<tr>
<td>11.1</td>
<td>Additional information</td>
<td>Modified</td>
<td>Respiratory or skin sensitization</td>
</tr>
</tbody>
</table>
11.1 Additional information
11.1 Potential adverse human health effects and symptoms
15.1 REACH Annex XVII

Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived-No Effect Level</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective concentration for 50 percent of test population (median effective concentration)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal concentration for 50 percent of test population (median lethal concentration)</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal dose for 50 percent of test population (median lethal dose)</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>RID</td>
<td>Regulation concerning the International Carriage of Dangerous Goods by Railways</td>
</tr>
<tr>
<td>SDS</td>
<td>Safety Data Sheet</td>
</tr>
<tr>
<td>STP</td>
<td>Sewage treatment plant</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
</tbody>
</table>

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 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. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. 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.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Asp. Tox. 1</th>
<th>Aspiration hazard, Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>EUH210</td>
<td>Safety data sheet available on request.</td>
</tr>
</tbody>
</table>