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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name</td>
<td>eni Blasia S (ISO 320)</td>
</tr>
<tr>
<td>Product code</td>
<td>7714</td>
</tr>
<tr>
<td>Formula</td>
<td>0067-2004</td>
</tr>
<tr>
<td>Product group</td>
<td>Trade product</td>
</tr>
</tbody>
</table>

This product is identified as a MIXTURE. CAS / EC / Index numbers are not applicable. REACH registration is not applicable.

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
Use of the substance/mixture: Gearbox lubricant

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 and Chemicals
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]

Aquatic Chronic 3  H412
Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

2.2. Label elements

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

Hazard pictograms (CLP) : [None]
CLP Signal word : [None]
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP) : P273 - Avoid release to the environment
                                P501 - Dispose of contents/container to according to national or local regulations
Child-resistant fastening : No
Tactile warning : No

**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 material 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.
(air contaminants or other substances)

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Compostion/information on ingredients : Synthetic base stock (polyglycol)
Additives

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

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. Do not put ice on the burn.

First-aid measures after eye contact: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.

First-aid measures after ingestion: Do not induce vomiting to avoid aspiration into the lungs. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital. If the casualty is unconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.

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

Symptoms / injuries (general indications): Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. Contact with eyes may cause temporary reddening and irritation.

Symptoms/injuries 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/injuries after skin contact: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. Contact with hot product may cause thermal burns.

Symptoms/injuries after eye contact: Contact with eyes may cause a light transient irritation. Contact with hot product or vapours may cause burns.

Full text of H-phrases: see section 16
# Symptoms/injuries after ingestion
Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Taking into account the taste of the product, however, ingestion of dangerous quantities is very unlikely.

# Symptoms/injuries 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
If necessary, drain stomach by gastric lavage ONLY under qualified medical supervision.

## 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/m³ of air.

**Combustion products**
- Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NOx (harmful/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 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. 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:**
- Soil. 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. Water: Product which is denser than water will sink to the bottom, and usually no intervention will be feasible. If possible, collect the product and contaminated materials with mechanical means, and store/dispose of according to relevant 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

See Section 8.

### 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. Recommended materials for containers, or container linings use mild steel, stainless steel. Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. 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

<table>
<thead>
<tr>
<th>Phenol, isopropylated, phosphate (3:1) [Triphenylphosphate &gt;5%] (68937-41-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Austria</strong></td>
</tr>
<tr>
<td><strong>Austria</strong></td>
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<tr>
<td><strong>Belgium</strong></td>
</tr>
<tr>
<td><strong>Denmark</strong></td>
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<td><strong>Denmark</strong></td>
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<td><strong>Finland</strong></td>
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<td><strong>France</strong></td>
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<td><strong>Ireland</strong></td>
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<tr>
<td><strong>Spain</strong></td>
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<tr>
<td><strong>United Kingdom</strong></td>
</tr>
<tr>
<td><strong>USA - ACGIH</strong></td>
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<tr>
<td><strong>USA - NIOSH</strong></td>
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<tr>
<td><strong>USA - OSHA</strong></td>
</tr>
</tbody>
</table>

**Phenol, isopropylated, phosphate (3:1) [Triphenylphosphate >5%] (68937-41-7)**

**DNEL/DMEL (Workers)**

- Acute - systemic effects, dermal: 200 mg/kg bodyweight/day
- Acute - systemic effects, inhalation: 20,1 mg/m³
- Acute - local effects, dermal: 16
- Long-term - systemic effects, dermal: 4,17 mg/kg bodyweight/day
- Long-term - systemic effects, inhalation: 0,29 mg/m³

**DNEL/DMEL (General population)**

- Acute - systemic effects, dermal: 100 mg/kg bodyweight
- Acute - systemic effects, inhalation: 5 mg/m³
Acute - systemic effects, oral: 50 mg/kg bodyweight
Acute - local effects, dermal: 8 mg/cm²
Long-term - systemic effects, oral: 0.04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation: 0.07 mg/m³
Long-term - systemic effects, dermal: 2.08 mg/kg bodyweight/day

PNEC (Water)
- PNEC aqua (freshwater): 0.00029 mg/l
- PNEC aqua (marine water): 0.000029 mg/l

PNEC (Sediment)
- PNEC sediment (freshwater): ≥ 112 mg/kg dwt
- PNEC sediment (marine water): ≥ 0.0168 mg/kg dwt

PNEC (STP): 100 mg/l

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.


29/04/2016
EN (English)
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). 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: No special requirements necessary, if handled at room temperature.

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: Pale yellow.
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: Pour point ≤ -27 °C (ASTM D 97)
Freezing point: Not applicable
Boiling point: ≥ 200 °C (ASTM D 1160)
Flash point: ≥ 215 °C (ASTM D 93)
Critical temperature : Not applicable for mixtures
Self ignition temperature : ≥ 300 °C (DIN 51794)
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : ≤ 0,1 hPa (20 °C)
Critical pressure : Not applicable for mixtures
Relative vapour density at 20 °C : > 1 (according to composition)
Relative density : No data available
Density : ≤ 1030 kg/m³ (15 °C) (ASTM D 4052)
Solubility : Water: Immiscible and insoluble
Log Pow : Not applicable for mixtures
Log Kow : Not applicable for mixtures
Viscosity, kinematic : 300 - 340 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 : LEL ≥ 45 g/m³ (Aerosol)

9.2. Other information
VOC content : = 0 % (EU, CH)

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. A mixture with nitrates or other strong oxidisers (e.g. chlorates, perchlorates, liquid oxygen) may create an explosive mass. 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
None.

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)

<table>
<thead>
<tr>
<th>eni Blasia S (ISO 320)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>≥ 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>≥ 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.</td>
</tr>
</tbody>
</table>
Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect.

pH: Not applicable

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

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met) (according to composition)

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)

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

Specific target organ toxicity (single exposure): Not classified (Based on available data, the classification criteria are not met) (according to composition)

Specific target organ toxicity (repeated exposure): Not classified (Based on available data, the classification criteria are not met) (according to composition)

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

Viscosity, kinematic: > 20.5 mm²/s (40 °C) (ASTM D 445)

Potential Adverse human health effects and symptoms: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. Contact with eyes may cause temporary reddening and irritation.

Other information: None.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: According to the components, and by comparison with other products of the same type and composition, it is expected that this product has a toxicity for aquatic organisms between 10 and 100 mg/l, and must be regarded as Dangerous to the environment. An uncontrolled release to the environment may 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.
en-blasia-s-iso-320 /

en-blasia-s-iso-320

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).

### en-blasia-s-iso-320

<table>
<thead>
<tr>
<th>en-blasia-s-iso-320</th>
<th>LC50 fish 1</th>
<th>10 - 100 mg/l (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>10 - 100 mg/l (Calculated data).</td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>10 - 100 mg/l (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.</td>
<td></td>
</tr>
</tbody>
</table>

### Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)

<table>
<thead>
<tr>
<th>en-blasia-s-iso-320</th>
<th>LC50 fish 1</th>
<th>&gt; 74 mg/l (OECD 203, 96h, Brachydanio rerio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 100 mg/l (OECD 202, 24h)</td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>≥ 3 mg/l (OECD 201, 72 h, Scenedesmus subspicatus)</td>
<td></td>
</tr>
</tbody>
</table>

### Bis(nonylphenyl)amine (36878-20-3)

<table>
<thead>
<tr>
<th>en-blasia-s-iso-320</th>
<th>LC50 fish 1</th>
<th>≥ 100 mg/l (OECD 203)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>≥ 100 mg/l (OECD 202)</td>
<td></td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>≥ 100 mg/l (OECD 201; 96h; Scenedesmus capricornutum)</td>
<td></td>
</tr>
</tbody>
</table>

### Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%] (68937-41-7)

<table>
<thead>
<tr>
<th>en-blasia-s-iso-320</th>
<th>LC50 fish 1</th>
<th>1,6 mg/l (96h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>2,44 mg/l (48 h)</td>
<td></td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**Persisten und degradability**

The most significant constituents of the product should be considered as "readily biodegradable".

**Bis(nonylphenyl)amine (36878-20-3)**

Persisten und degradability: Not biodegradable.

**Hydroxyalkyl carboxylic ester (Supplier confidential)**

Biodegradation: 9.1 % (28d)

### 12.3. Bioaccumulative potential

**Persisten und degradability**

Not applicable for mixtures.

**Hydroxyalkyl carboxylic ester (Supplier confidential)**

Log Pow: Not applicable for mixtures

Log Kow: 3.6 (0,1d)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

**Persisten und degradability**

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

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

**Hydroxyalkyl carboxylic ester (Supplier confidential)**

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

**Persisten und degradability**

None.

**Hydroxyalkyl carboxylic ester (Supplier confidential)**

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.

Waste 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 / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name: Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable
Proper Shipping Name (ADN): Not applicable
Proper Shipping Name (RID): Not applicable

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR): Not applicable

IMDG
Transport hazard class(es) (IMDG): Not applicable

IATA
Transport hazard class(es) (IATA): Not applicable

ADN
Transport hazard class(es) (ADN): Not applicable

RID
Transport hazard class(es) (RID): Not applicable

14.4. Packing group

Packing group (UN): Not applicable
Packing group (IMDG): Not applicable
Packing group (IATA): Not applicable
Packing group (ADN): Not applicable
Packing group (RID): Not applicable

14.5. Environmental hazards

Dangerous for the environment: No
Marine pollutant: No
Other information: None.
### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th>Special transport precautions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overland transport</strong></td>
<td></td>
</tr>
<tr>
<td>Transport regulations (ADR)</td>
<td>Not subject</td>
</tr>
<tr>
<td><strong>Transport by sea</strong></td>
<td></td>
</tr>
<tr>
<td>Transport regulations (IMDG)</td>
<td>Not subject</td>
</tr>
<tr>
<td>Limited quantities (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>MFAG-No</td>
<td>--</td>
</tr>
<tr>
<td><strong>Air transport</strong></td>
<td></td>
</tr>
<tr>
<td>Transport regulations (IATA)</td>
<td>Not subject</td>
</tr>
<tr>
<td><strong>Inland waterway transport</strong></td>
<td></td>
</tr>
<tr>
<td>Transport regulations (ADN)</td>
<td>Not subject</td>
</tr>
<tr>
<td><strong>Rail transport</strong></td>
<td></td>
</tr>
<tr>
<td>Transport regulations (RID)</td>
<td>Not subject</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>IBC code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory information

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

**15.1.1. EU-Regulations**

Authorisations and/or restrictions on use (Annex XVII):

<table>
<thead>
<tr>
<th>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</th>
<th>eni Blasia S (ISO 320) - Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate - Bis(nonylphenyl)amine - Hydroxyalkyl carboxylic ester - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate &gt;5%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.b. 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</td>
<td>Hydroxyalkyl carboxylic ester - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate &gt;5%]</td>
</tr>
<tr>
<td>3.c. Hazard class 4.1</td>
<td>eni Blasia S (ISO 320) - Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate - Bis(nonylphenyl)amine - Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate &gt;5%]</td>
</tr>
</tbody>
</table>

No ingredients are included in the REACH Candidate list (> 0,1 % m/m).
Contains no REACH Annex XIV substances.
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)

VOC content: = 0 % (EU, CH)

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) 2, 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 on the protection of young people at work according to § 22 section 1(6) JArbSchG have to be observed.


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: Risk Assessment for Activities involving Hazardous Substances

The Netherlands

Saneringsinspanningen: C - Lozing minimaliseren

Denmark

Classification remarks: Emergency management guidelines for the storage of flammable liquids must be followed
en Blasia S (ISO 320)

Safety Data Sheet
According to Regulation (EU) No. 830/2015

Recommendations

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

15.2. Chemical safety assessment

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

Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate
Bis(nonylphenyl)amine

SECTION 16: Other information

Indication of changes:

Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>N/D</td>
<td>Not available</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>API</td>
<td>American Petroleum Institute</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration Factor</td>
</tr>
<tr>
<td>CSR</td>
<td>Chemical Safety Report</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimum Effect Level</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration, 50%</td>
</tr>
<tr>
<td>ELC50</td>
<td>Effective Loading, 50%</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration, 50%</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration, 50%</td>
</tr>
<tr>
<td>LEL50</td>
<td>Lethal Dose, 50%</td>
</tr>
<tr>
<td>LL50</td>
<td>Lethal Loading, 50%</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Low Observed Adverse Effects Level</td>
</tr>
<tr>
<td>NOEL</td>
<td>No Observed Effects Level</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observed Adverse Effects Level</td>
</tr>
<tr>
<td>OECD</td>
<td>Organization for Economic Cooperation and Development</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative, Toxic</td>
</tr>
<tr>
<td>STOT</td>
<td>Single Target Organ Toxicity</td>
</tr>
<tr>
<td>(STOT) RE</td>
<td>(Single Target Organ Toxicity) Repeated exposure</td>
</tr>
<tr>
<td>(STOT) SE</td>
<td>(Single Target Organ Toxicity) Single exposure</td>
</tr>
<tr>
<td>TLV®TWA</td>
<td>Threshold Limit Value® – Time-Weighted Average</td>
</tr>
<tr>
<td>TLV®STEL</td>
<td>Threshold Limit Value® – Short Term Exposure Limit</td>
</tr>
<tr>
<td>UVCB</td>
<td>Substance of Unknown or Variable composition, Complex reaction products or Biological materials</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent, very Bioaccumulative</td>
</tr>
<tr>
<td>WAF</td>
<td>Water Accommodated Fraction</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.

Full text of H- and EUH-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 4</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 4</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>Reproductive toxicity, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H361fd</td>
<td>Suspected of damaging fertility. Suspected of damaging the unborn child</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>
H410  Very toxic to aquatic life with long lasting effects
H412  Harmful to aquatic life with long lasting effects
H413  May cause long lasting harmful effects to aquatic life

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

| Aquatic Chronic 3 | H412 | Calculation method |

SDS EU (REACH Annex II) eni 2015

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.