



Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Revision date: 22/06/2020 Supersedes: 31/07/2017 Version: 5.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Eni Blasia S 220
Product code	: 2780
Type of product	: Lubricants
Formula	: 0066-2004
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
Use of the substance/mixture	: Gearbox lubricant ---- 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

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Competent person responsible for the safety data sheet (Reg. EC nr. 1907/2006): SDSInfo@eni.com

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1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — H411

Chronic Hazard, Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

CLP Signal word : [None]
Hazard statements (CLP) : H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents and container to according to national or local regulations.
EUH-statements : EUH208 - Contains Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide. May produce an allergic reaction.

2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification : 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. 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.

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:
Polymers
Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (Additive)	(CAS-No.) 125643-61-0 (EC-No.) 406-040-9 (EC Index-No.) 607-530-00-7 (REACH-no) 01-0000015551-76	2 - 3	Aquatic Chronic 4, H413
Phenol, isopropylated, phosphate (3:1) (Additive)	(CAS-No.) 68937-41-7 (EC-No.) 273-066-3 (EC Index-No.) N/A (REACH-no) 01-2119535109-41	0,5 - 1	Repr. 2, H361fd STOT RE 2, H373 Aquatic Chronic 1, H410 (M=10)
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide (Additive)	(EC-No.) 943-535-3 (EC Index-No.) N/A (REACH-no) 01-2120120363-71	0,1 - 0,3	Eye Irrit. 2, H319 Skin Sens. 1B, H317

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 : 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.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

First-aid measures after eye contact	: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless by doctor's advice.
First-aid measures after ingestion	: Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. If you feel unwell, seek medical advice.

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	: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May produce an allergic reaction. Contact with hot product may cause thermal burns.
Symptoms/effects after eye contact	: Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns.
Symptoms/effects after ingestion	: Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.
Symptoms/effects upon intravenous administration	: No information available.

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

Treat symptomatically. Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foaming agents. Water spray.
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.
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, NO _x (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.).

5.3. Advice for firefighters

Firefighting instructions	: Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. 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, flares). Avoid accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. Keep upwind.
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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. 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. Do not attempt to take action without suitable protective equipment.
Emergency procedures	: Notify local authorities according to relevant regulations.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. 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 : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal.
- Methods for cleaning up : Wash contaminated area with large amounts of water. This material and its container must be disposed of in a safe way, and according to local legislation.
- 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. 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.
- Handling temperature : This product can be handled at ambient temperatures.
- Hygiene measures : Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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 acids and strong oxidants.
- Storage temperature : This product can be stored at ambient temperatures.
- Storage area : Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
- Packages and containers: : If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.
- Packaging materials : For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phenol, isopropylated, phosphate (3:1) (68937-41-7)		
Austria	MAK (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Austria	MAK Short time value (mg/m ³)	6 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Belgium	Limit value (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Denmark	Grænseværdi (langvarig) (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Phenol, isopropylated, phosphate (3:1) (68937-41-7)		
Denmark	Grænseværdi (kortvarig) (mg/m ³)	6 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Finland	HTP-arvo (8h) (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Finland	HTP-arvo (15 min) (mg/m ³)	6 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
France	VME (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Ireland	OEL (8 hours ref) (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
Spain	VLA-ED (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
United Kingdom	WEL TWA (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
USA - ACGIH	ACGIH TLV®-TWA (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	3 mg/m ³ (Reference: CAS 115-86-6, Triphenylphosphate)

Monitoring methods

Monitoring methods	Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts, Refer to relevant legislation and in any case to the good practice of industrial hygiene.
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Eni Blasia S 220

DNEL/DMEL (additional information)

Additional information Not applicable

PNEC (additional information)

Additional information Not applicable

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

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	20 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1750 mg/m ³
Acute - local effects, dermal	1 mg/cm ²
Long-term - systemic effects, dermal	8,6 mg/kg bodyweight/day
Long-term - local effects, dermal	0,006 mg/cm ²
Long-term - systemic effects, inhalation	3 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, dermal	50 mg/kg bodyweight
Acute - local effects, dermal	8,33 mg/cm ²
Long-term - systemic effects, oral	0,43 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,74 mg/m ³
Long-term - systemic effects, dermal	4,3 mg/kg bodyweight/day
Long-term - local effects, inhalation	875 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	4,3 µg/l
PNEC aqua (marine water)	1,8 µg/l
PNEC aqua (intermittent, freshwater)	43 µg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0,37 mg/kg dwt
PNEC sediment (marine water)	0,037 mg/kg dwt

PNEC (Soil)

PNEC soil	0,632 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	33 µg/kg
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Phenol, isopropylated, phosphate (3:1) (68937-41-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2000 mg/kg bodyweight/day
Acute - systemic effects, inhalation	20,1 mg/m ³
Acute - local effects, dermal	16 mg/cm ²
Long-term - systemic effects, dermal	0,417 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,145 mg/m ³
Long-term - local effects, inhalation	700 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	100 mg/kg bodyweight
Acute - systemic effects, inhalation	350 mg/m ³
Acute - systemic effects, oral	50 mg/kg bodyweight
Acute - local effects, dermal	8 mg/cm ²
Long-term - systemic effects, oral	0,04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,07 mg/m ³
Long-term - systemic effects, dermal	0,208 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,00031 mg/l
PNEC aqua (marine water)	0,000031 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,185 mg/kg dwt
PNEC sediment (marine water)	0,0185 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	23,3 mg/kg bodyweight/day
Long-term - local effects, dermal	0,301 mg/cm ²
Long-term - systemic effects, inhalation	1,64 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,17 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,29 mg/m ³
Long-term - systemic effects, dermal	8,3 mg/kg bodyweight/day
Long-term - local effects, dermal	0,301 mg/cm ²
PNEC (Oral)	
PNEC oral (secondary poisoning)	6,67 mg/kg food

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), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability.

Personal protective equipment (for industrial or professional use):

Gloves. Protective clothing. Safety glasses. Safety shoes or boots.

Hand protection:

Eni Blasias S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Adequate materials: nitrile (NBR) or neoprene 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:

Chemical goggles or safety glasses. DIN EN 166

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.

Respiratory protection:

Not necessary with sufficient ventilation. In case of insufficient ventilation, wear suitable respiratory equipment (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)

Personal protective equipment symbol(s):



Thermal hazard protection:

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

Environmental exposure controls:

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

Consumer exposure controls:

Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, bright & clear.
Colour	: Pale yellow.
Odour	: characteristic.
Odour threshold	: There are no data available on the preparation/mixture itself.
pH	: There are no data available on the preparation/mixture itself.
Relative evaporation rate (butylacetate=1)	: Negligible.
Melting point	: -33 °C (pour point) (ASTM D 97)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 220 °C (ASTM D 92)
Critical temperature	: Not applicable for mixtures
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Critical pressure	: Not applicable for mixtures
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1030 kg/m ³ (15 °C) (ASTM D 4052)
Solubility	: Water: Immiscible and insoluble
Log Pow	: Not applicable for mixtures
Log Kow	: Not applicable for mixtures
Viscosity, kinematic	: 220 mm ² /s (40 °C) (ASTM D 445)
Viscosity, dynamic	: No data available

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: Not applicable

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).

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidants and strong acids.

10.6. Hazardous decomposition products

Thermal decomposition may produce : Carbon dioxide, Carbon monoxide.

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)

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

LD50 oral rat	500 - 2000 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight

Phenol, isopropylated, phosphate (3:1) (68937-41-7)

LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 10000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	≥ 200 mg/l/4h

Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide

LD50 oral rat	2000 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: There are no data available on the preparation/mixture itself.
Additional information	: (according to composition)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: There are no data available on the preparation/mixture itself.
Additional information	: (according to composition)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) Contains Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide. May cause an allergic skin reaction.
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)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product contains : Phenol, isopropylated, phosphate (3:1) Suspected of damaging fertility. Suspected of damaging the unborn child.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Phenol, isopropylated, phosphate (3:1) (68937-41-7)	
NOAEL (animal/male, F0/P)	400 mg/kg bodyweight (OECD 414)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
 Additional information : (according to composition)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LOAEL (oral, rat)	5 mg/kg bw/day (28 d)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
 Additional information : (according to composition)

Phenol, isopropylated, phosphate (3:1) (68937-41-7)	
NOAEL (oral, rat, 90 days)	< 25 mg/kg bodyweight/day (OECD 408)

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

Eni Blasia S 220	
Viscosity, kinematic	220 mm ² /s (40 °C) (ASTM D 445)

Potential adverse human health effects and symptoms : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. May cause an allergic skin reaction. Avoid all eye and skin contact and do not breathe vapour and mist.

Other information : None.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An uncontrolled release to the environment may 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. Notify authorities if product enters sewers or public waters.

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)

Ecology - water : Toxic to aquatic life.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LC50 fish 1	> 74 mg/l (Brachydanio rerio, OECD 203)
EC50 Daphnia 1	> 100 mg/l (24h, OECD 202)
EC50 72h algae (1)	> 3 mg/l (Scenedesmus sp, OECD 201)
ErC50 (algae)	> 33,7 mg/l (OECD 201, 72 h, Pseudokirchnerella subspicata)
NOEC (acute)	33,7 mg/l (72 h, Pseudokirchnerella subspicata)
NOEC chronic crustacea	>= 1 mg/l (21d, Daphnia magna)

Phenol, isopropylated, phosphate (3:1) (68937-41-7)	
LC50 fish 1	1,6 mg/l (Oncorhynchus mykiss)
LC50 fish 2	10,8 mg/l (Pimephales promelas)
EC50 Daphnia 1	2,44 mg/l
NOEC chronic fish	0,0031 mg/l (33d, Pimephales promelas, OECD 210)
NOEC chronic crustacea	0,041 mg/l (21d, OECD 211)

Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	100 mg/l
EC50 72h algae (1)	67 - 100 mg/l

12.2. Persistence and degradability

Eni Blasia S 220	
Persistence and degradability	Not biodegradable.

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Persistence and degradability	Not biodegradable.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Phenol, isopropylated, phosphate (3:1) (68937-41-7)				
Biodegradation	17,9 % (28d)			
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide				
Biodegradation	9,1 % (28d)			
12.3. Bioaccumulative potential				
Eni Blasia S 220				
Log Pow	Not applicable for mixtures			
Log Kow	Not applicable for mixtures			
Bioaccumulative potential	Not established.			
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)				
Bioconcentration factor (BCF REACH)	260 (35 d, Oncorhynchus mykiss, OECD 305)			
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide				
Log Kow	3,6 (0,1d)			
12.4. Mobility in soil				
Eni Blasia S 220				
Ecology - soil	No data available.			
12.5. Results of PBT and vPvB assessment				
Eni Blasia S 220				
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII				
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)			
12.6. Other adverse effects				
Other adverse effects	: None.			
Additional information	: No other effects known			
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.			
Additional information	: Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.			
Ecology - waste materials	: The product as it is does not contain halogenated substances.			
SECTION 14: Transport information				
In accordance with ADN / ADR / IATA / IMDG / RID				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, isopropylated, phosphate (3:1)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9

Eni Blasia S 220

Safety Data Sheet

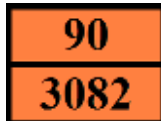
According to Regulation (EU) No. 830/2015

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
None.				

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Subject to the provisions
Classification code (UN) : M6
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code : -

- Transport by sea

Transport regulations (IMDG) : Subject to the provisions
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
IBC packing instructions (IMDG) : IBC03
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

- Air transport

Transport regulations (IATA) : Subject to the provisions
PCA Excepted quantities (IATA) : E1
PCA limited quantity max net quantity (IATA) : 30kgG

- Inland waterway transport

Transport regulations (ADN) : Subject to the provisions
Classification code (ADN) : M6
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

- Rail transport

Transport regulations (RID) : Subject to the provisions
Classification code (RID) : M6
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Transport category (RID) : 3
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code : Not applicable.

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

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	Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide - Phenol, isopropylated, phosphate (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Eni Blasia S 220 - reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - Phenol, isopropylated, phosphate (3:1)

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

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace). Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). 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). Substances Depleting the Ozone layer (1005/2009) - Annex I Substances (ODP). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

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.

Germany

Reference to AwSV : Water hazard class (WGK) (D) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification is carried out on the basis of the Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) of 18 April 2017 (BGBl 2017, Teil I, Nr. 22, Seite 905).

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. BImSchV (Hazardous Incident Ordinance)

Other information, restrictions and prohibition regulations : TRGS 400: Hazard assessment for activities involving Hazardous Substances
TRGS 401: Risks resulting from skin contact - identification, assessment, measures
TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure
TRGS 555: Working instruction and information for workers
TRGS 800: Fire protection measures
TRGS 900: Occupational Exposure Limits

Netherlands

Waterbezuwaarlijkheid : 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
7 - Toxic to aquatic organisms

Saneringsinspanningen : C - Minimize discharge

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

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

For this mixture a chemical safety assessment has been not carried out

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

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide
Phenol, isopropylated, phosphate (3:1)

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Notes
1.1	Formula	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Added	
2.2	CLP Signal word	Removed	
2.2	Hazard statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Added	
3	Composition/information on ingredients	Modified	
3.2	Notes	Added	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after ingestion	Modified	
4.2	Symptoms/effects after skin contact	Modified	
4.2	Symptoms/effects after ingestion	Modified	
5.2	Hazardous decomposition products in case of fire	Added	
5.3	Special protective equipment for firefighters	Modified	
5.3	Firefighting instructions	Modified	
6.3	Methods for cleaning up	Modified	
6.3	For containment	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Incompatible products	Modified	
8.1	DNEL/DMEL and PNEC values	Added	
8.2	Respiratory protection	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	Explosive limits (vol %)	Added	
9.1	Vapour pressure	Added	
9.1	Boiling point	Added	
9.1	Freezing point	Removed	
9.1	Molecular mass	Removed	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Modified	
11.1	Additional information	Modified	

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

12.1	Ecology - water	Added	
12.1	Ecology - general	Modified	
12.2	Persistence and degradability	Modified	
14.1	UN-No. (ICAO)	Added	
14.1	UN-No. (ADN)	Added	
14.1	UN-No.	Added	
14.1	UN-No. (RID)	Added	
14.1	UN-No. (IMDG)	Added	
14.2	Proper Shipping Name (IATA)	Added	
14.2	Proper Shipping Name (ADN)	Added	
14.2	Proper Shipping Name (RID)	Added	
14.2	Proper Shipping Name (IMDG)	Added	
14.2	Proper Shipping Name	Modified	
14.3	Danger labels (ICAO)	Added	
14.3	Danger labels (ADN)	Added	
14.3	Classification code (ADN)	Added	
14.3	Danger labels (RID)	Added	
14.3	Classification code (RID)	Added	
14.3	Danger labels (IMDG)	Added	
14.3	Danger labels (UN)	Added	
14.3	Class (UN)	Modified	
14.4	Packing group (IATA)	Modified	
14.4	Packing group (RID)	Modified	
14.4	Packing group (ADN)	Modified	
14.4	Packing group (IMDG)	Modified	
14.4	Packing group (UN)	Modified	
14.6	PCA limited quantity max net quantity (IATA)	Added	
14.6	PCA Excepted quantities (IATA)	Added	
14.6	Limited quantities (RID)	Added	
14.6	Transport regulations (ADR)	Modified	
14.6	Transport regulations (ADN)	Modified	
14.6	Special transport precautions	Removed	
14.6	Transport regulations (RID)	Modified	
14.6	Transport regulations (IMDG)	Modified	
14.6	Transport regulations (IATA)	Modified	
14.6	Excepted quantities (ADN)	Added	
14.6	Limited quantities (ADN)	Added	
14.6	Hazard identification number (RID)	Added	
14.6	Transport category (RID)	Added	
14.6	Excepted quantities (RID)	Added	
14.6	EmS-No. (Spillage)	Added	
14.6	EmS-No. (Fire)	Added	
14.6	Limited quantities (IMDG)	Added	
14.6	Stowage category (IMDG)	Added	
14.6	IBC packing instructions (IMDG)	Added	
14.6	Excepted quantities (IMDG)	Added	
14.6	Transport category (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Classification code (UN)	Added	
14.6	Excepted quantities (ADR)	Added	
14.6	Tunnel restriction code	Modified	
15.1	Waterbezwaarlijkheid	Added	
15.1	Other information, restrictions and prohibition regulations	Modified	
15.1	Water hazard class (WGK) (D)	Modified	
15.1	WGK remark	Modified	
15.1	Storage class (LGK) (D)	Modified	
15.1	REACH Annex XVII	Modified	
15.1	Other information, restriction and prohibition regulations	Added	
16	Indication of changes	Added	

Eni Blasia S 220

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Abbreviations and acronyms:

	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.
	N/D = not available
	N/A = not applicable
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

- Data sources : This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
- Training advice : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.
- Other information : Do not use the product for any purposes that have not been advised by the manufacturer.

Full text of H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide. May produce an allergic reaction.

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

Aquatic Chronic 2	H411	Calculation method
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SDS EU (REACH Annex II)

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.