

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 12.12.2019

Version: 9.0

Date previous version: 12.02.2019

Previous version: 8.0

Product: **Elastopor* H 1236/3 Polyol component**

(ID no. 30452932/SDS_GEN_EU/EN)

Date of print 01.04.2021

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

1.1. Product identifier

Elastopor* H 1236/3 Polyol component

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: polyurethane component

1.3. Details of the supplier of the safety data sheet

Company:

BASF plc
4th and 5th Floors
2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Contact address:

BASF SE
67056 Ludwigshafen
GERMANY

Telephone: +49 621 60-0

E-mail address: global.info@basf.com

1.4. Emergency telephone number

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3
 Acute Tox. 4 (oral)
 Eye Dam./Irrit. 2
 Skin Corr./Irrit. 2

H226, H302, H315, H319

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elementsGlobally Harmonized System, EU (GHS)

Pictogram:



Signal Word:
 Warning

Hazard Statement:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
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Precautionary Statements (Disposal):

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P501

Dispose of contents and container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: tris(2-chloro-1-methylethyl) phosphate, polypropylenglycol

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Preparation based on: polyetherpolyol, catalyst, propellant, flame retardant, additives

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

formic acid...%

Content (W/W): $\geq 2\%$ - $< 10\%$

CAS Number: 64-18-6

EC-Number: 200-579-1

REACH registration number: 01-2119491174-37

INDEX-Number: 607-001-00-0

Flam. Liq. 3

Acute Tox. 4 (oral)

Skin Corr./Irrit. 1A

Acute Tox. 3 (Inhalation - vapour)

Eye Dam./Irrit. 1

H226, H302, H314, H331

EUH071

Specific concentration limit:

Skin Corr./Irrit. 1A: $\geq 90\%$

Skin Corr./Irrit. 1B: 10% - $< 90\%$

Eye Dam./Irrit. 2: 2% - $< 10\%$

Skin Corr./Irrit. 2: 2% - $< 10\%$

N,N,N',N'-Tetramethylhexamethylenediamine

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Content (W/W): $\geq 0.1\%$ - $< 1\%$	Acute Tox. 3 (oral)
CAS Number: 111-18-2	Acute Tox. 3 (dermal)
EC-Number: 203-842-9	Acute Tox. 3 (Inhalation - mist)
REACH registration number: 01-2119980969-10	Eye Dam./Irrit. 1
	Skin Corr./Irrit. 1A
	Aquatic Chronic 2
	H301, H311, H314, H331, H411

cyclopentane

Content (W/W): $\geq 1\%$ - $\leq 2.5\%$	Flam. Liq. 2
CAS Number: 287-92-3	Asp. Tox. 1
EC-Number: 206-016-6	STOT SE 3
REACH registration number: 01-2119463053-47	Aquatic Chronic 3
INDEX-Number: 601-030-00-2	H225, H304, H336, H412
	<u>Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008</u>
	Flam. Liq. 2
	Aquatic Chronic 2
	Asp. Tox. 1
	STOT SE (Central nervous system) 3
	(drowsiness and dizziness)

bis(2-dimethylaminoethyl)(methyl)amine

Content (W/W): $\geq 0.1\%$ - $< 1\%$	Acute Tox. 4 (oral)
CAS Number: 3030-47-5	Acute Tox. 3 (dermal)
EC-Number: 221-201-1	Skin Corr./Irrit. 1B
REACH registration number: 01-2119979537-18	Acute Tox. 3 (Inhalation - vapour)
INDEX-Number: 612-109-00-6	Eye Dam./Irrit. 1
	Aquatic Chronic 3
	H302, H311, H314, H331, H412

tris(2-chloro-1-methylethyl) phosphate

Content (W/W): $< 25\%$	Acute Tox. 4 (oral)
CAS Number: 13674-84-5	H302
EC-Number: 237-158-7	
REACH registration number: 01-2119486772-26, 01-2119447716-31	

polypropylenglycol

Content (W/W): $< 25\%$	Acute Tox. 4 (oral)
CAS Number: 25322-69-4	H302

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For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Eye irritation, skin irritation

Hazards: Symptoms can appear later.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, hydrogen chloride, nitrogen oxides, Phosphorus compounds

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

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Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Sources of ignition should be kept well clear.

6.2. Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of contaminated material as prescribed.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tinned carbon steel (Tinplate), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Protect from temperatures above: 30 °C

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

64-18-6: formic acid ... %

TWA value 9 mg/m³ ; 5 ppm (OEL (EU))
indicative

630-08-0: carbon monoxide

Components with PNEC

64-18-6: formic acid ... %

freshwater: 2 mg/l
marine water: 0.2 mg/l
intermittent release: 1 mg/l
sediment (freshwater): 13.4 mg/kg
sediment (marine water): 1.34 mg/kg
soil: 1.5 mg/kg
STP: 7.2 mg/l

111-18-2: N,N,N',N'-Tetramethylhexamethylenediamine

freshwater: 0.0172 mg/l
marine water: 0.00172 mg/l
intermittent release: 0.0694 mg/l
STP: 6.4 mg/l
sediment (freshwater): 0.116 mg/kg
sediment (marine water): 0.0116 mg/kg
soil: 0.0131 mg/kg
oral (secondary poisoning):
No PNEC oral derived, as accumulation in organisms is not to be expected.

287-92-3: cyclopentane

No PNEC value available.

3030-47-5: methylbis(2-dimethylaminoethyl)amine

freshwater: 0.0549 mg/l
marine water: 0.00549 mg/l
intermittent release: 0.549 mg/l
STP: 100 mg/l
sediment (freshwater): 0.398 mg/kg
sediment (marine water): 0.0398 mg/kg
soil: 0.0472 mg/kg
oral (secondary poisoning): 2 mg/kg

13674-84-5: Tris(2-chloro-1-methylethyl) phosphate

freshwater: 0.64 mg/l
marine water: 0.064 mg/l

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intermittent release: 0.51 mg/l
 STP: 7.84 mg/l
 sediment (freshwater): 7.6 mg/kg
 soil: 1.7 mg/kg
 oral (secondary poisoning): < 11.6 mg/kg

Components with DNEL

64-18-6: formic acid ... %

worker: Long-term exposure - systemic and local effects, Inhalation: 9.5 mg/m3

consumer: Short-term exposure - systemic and local effects, Inhalation: 9.5 mg/m3

consumer: Long-term exposure - systemic and local effects, Inhalation: 3 mg/m3

worker: Short-term exposure - systemic and local effects, Inhalation: 19 mg/m3

111-18-2: N,N,N',N'-Tetramethylhexamethylenediamine

worker: Long-term exposure- systemic effects, Inhalation: 1.11 mg/m3

287-92-3: cyclopentane

consumer: Long-term exposure- systemic effects, by inhalation: 643 mg/m3

Repeated dose toxicity

worker: Long-term exposure- systemic effects, by inhalation: 3000 mg/m3

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, oral: 214 mg/kg

Repeated dose toxicity

consumer: Long-term exposure- systemic effects, dermal: 214 mg/kg

Repeated dose toxicity

worker: Long-term exposure- systemic effects, dermal: 432 mg/kg

Repeated dose toxicity

3030-47-5: methylbis(2-dimethylaminoethyl)amine

worker: Long-term exposure- systemic effects, dermal: 0.150 mg/kg

worker: Long-term exposure- systemic effects, Inhalation: 0.529 mg/m3

13674-84-5: Tris(2-chloro-1-methylethyl) phosphate

worker: Long-term exposure- systemic effects, Inhalation: 5.82 mg/m3

worker: Long-term exposure- systemic effects, dermal: 2.08 mg/kg

worker: Short-term exposure - systemic effects, dermal: 8 mg/kg

worker: Short-term exposure - systemic effects, dermal: 14 mg/kg

consumer: Short-term exposure - systemic effects, dermal: 4 mg/kg

consumer: Short-term exposure - systemic effects, dermal: 7 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline

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compounds (e.g. EN 14387 Type ABEK). Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellowish	
Odour:	amine-like	
Odour threshold:		
	not applicable	
pH value:	approx. 8 (20 °C)	
solidification temperature:	< 0 °C	
Boiling point:	> 140 °C (1,013 hPa)	
Flash point:	26.5 °C	(DIN 53213-1)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	Flammable liquid and vapour.	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	

Information on: cyclopentane

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*Lower explosion limit:**The lower explosion point may be 5 - 15 °C below the flash point.**Upper explosion limit:*

For liquids not relevant for classification and labelling.

*Information on: cyclopentane**Upper explosion limit: 8.7 %(V)**Literature data.**Ignition temperature:*

395 °C

Vapour pressure:

107.5 hPa

(19.32 °C)

150.4 hPa

(29.30 °C)

207.2 hPa

(39.29 °C)

278.3 hPa

(49.25 °C)

366.30 hPa

(59.25 °C)

*Density:*1.08 g/cm³

(DIN 51757)

(20 °C)

Relative density:

1.08

(20 °C)

Relative vapour density (air):

not applicable

Solubility in water:

partly soluble

Partitioning coefficient n-octanol/water (log Kow):

not applicable for mixtures, Study scientifically not justified.

Self ignition:

not self-igniting

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.*Viscosity, dynamic:*

not determined

Explosion hazard:

not explosive

Fire promoting properties: not fire-propagating**9.2. Other information***Self heating ability:*

not applicable, the product is a liquid

Miscibility with water:

partly miscible

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

The product is chemically stable.

10.4. Conditions to avoid

Temperature: < 0 °C

Avoid all sources of ignition: heat, sparks, open flame.

10.5. Incompatible materials

Substances to avoid:

acids, oxidizing agents, isocyanates

10.6. Hazardous decomposition products

Hazardous decomposition products:

carbon monoxide

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Information on: tris(2-chloro-1-methylethyl) phosphate

Experimental/calculated data:

LD50 rat (oral): 630 mg/kg (Guideline 92/69/EEC, B.1)

Information on: polypropylenglycol

Experimental/calculated data:

LD50 rat (oral): 1,000 - < 2,000 mg/kg

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Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Information on: formic acid...%

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)

Literature data.

Information on: N,N,N',N'-Tetramethylhexamethylenediamine

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Information on: tris(2-chloro-1-methylethyl) phosphate

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Specific target organ toxicity (single exposure)

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Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated dermal uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Information on: tris(2-chloro-1-methylethyl) phosphate

Toxicity to fish:

LC50 (96 h) 51 mg/l, Pimephales promelas (Fish test acute, static)

LC50 (96 h) 56 mg/l, Brachydanio rerio (Fish test acute, static)

Information on: tris(2-chloro-1-methylethyl) phosphate

Aquatic invertebrates:

EC50 (48 h) 131 mg/l, Daphnia magna (Daphnia test acute, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: tris(2-chloro-1-methylethyl) phosphate

Aquatic plants:

EC50 (72 h) 82 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Nominal concentration.

Information on: tris(2-chloro-1-methylethyl) phosphate

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*Microorganisms/Effect on activated sludge:**EC50 (3 h) 784 mg/l, activated sludge (DIN EN ISO 8192, aquatic)**Nominal concentration.*

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

Elimination information:

Poorly biodegradable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Adsorbable organically-bound halogen (AOX):

The product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

SECTION 13: Disposal Considerations

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13.1. Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 07[□] halogenated still bottoms and reaction residues

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport Information

Land transport

ADR

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: D/E

RID

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Inland waterway transport

ADN

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

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Not evaluated

Sea transport**IMDG**

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for user:	None known

Air transport**IATA/ICAO**

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

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14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

Further information

Not dangerous goods of class 3 in packages up to 450 litres capacity (valid for ADR, ADN, RID, TDG and USDOT).

SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Prohibitions, Restrictions and Authorizations**

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
List entry in regulation: P5c

If it is intended to use materials for the manufacture of consumer goods (e. g. products which will come into contact with foodstuffs or with the skin, toys) or medical products, national and international regulations have to be observed. Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Product Safety departments.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts.

The methodologies used are mentioned at the respective test results.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Corr./Irrit.	Skin corrosion/irritation
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Asp. Tox.	Aspiration hazard
STOT SE	Specific target organ toxicity — single exposure
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H411	Toxic to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a

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Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.