

# Safety data sheet

Page: 1/18

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Date / Revised: 28.09.2022

Version: 5.0

Date previous version: 14.11.2018

Previous version: 4.0

Date / First version: 19.01.2012

Product: **Elastopor® H 2101/20 Polyol component**

(ID no. 30561906/SDS\_GEN\_EU/EN)

Date of print 20.11.2024

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

### 1.1. Product identifier

## Elastopor® H 2101/20 Polyol component

UFI: CVXF-V3TF-D007-MST0

### 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 SE  
67056 Ludwigshafen  
GERMANY

Telephone: +49 621 60-0  
E-mail address: global.info@basf.com

### 1.4. Emergency telephone number

International emergency number:  
Telephone: +49 180 2273-112

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## 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.

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

Acute Tox. 4 (oral)

H302 Harmful if swallowed.

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

### 2.2. Label elements

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

Pictogram:



Signal Word:

Warning

Hazard Statement:

H302 Harmful if swallowed.

Precautionary Statements (Prevention):

P264 Wash contaminated body parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Precautionary Statements (Response):

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: polypropylenglycol, triethyl phosphate

### 2.3. Other hazards

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

See section 12 - Results of PBT and vPvB assessment.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

Preparation based on: polyol, catalyst, stabilizing agents, additives

#### Regulatory relevant ingredients

polypropylenglycol

|  |                     |
|--|---------------------|
| Content (W/W): $\geq 20\%$ - $\leq 25\%$ | Acute Tox. 4 (oral) |
| CAS Number: 25322-69-4                   | H302                |

triethyl phosphate

|   |                     |
|---|---------------------|
| Content (W/W): $\geq 5\%$ - $< 10\%$        | Acute Tox. 4 (oral) |
| CAS Number: 78-40-0                         | Eye Dam./Irrit. 2   |
| EC-Number: 201-114-5                        | H319, H302          |
| REACH registration number: 01-2119492852-28 |                     |

cyclohexyldimethylamine

|   |                                    |
|---|------------------------------------|
| Content (W/W): $\geq 0.1\%$ - $< 1\%$       | Flam. Liq. 3                       |
| CAS Number: 98-94-2                         | Acute Tox. 3 (oral)                |
| EC-Number: 202-715-5                        | Acute Tox. 3 (dermal)              |
| REACH registration number: 01-2119533030-60 | Acute Tox. 3 (Inhalation - vapour) |
|   | Skin Corr./Irrit. 1B               |
|   | Eye Dam./Irrit. 1                  |
|   | Aquatic Chronic 2                  |
|   | H226, H301, H311, H314, H331, H411 |

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.

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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.

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: The most important known symptoms and effects are described in section 2 and/or in section 11.

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.

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### **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**

Endangering substances: carbon monoxide, Carbon dioxide, nitrogen oxides, Phosphorus compounds

Advice: 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:

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

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### **SECTION 6: Accidental Release Measures**

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

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### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Information regarding personal protective measures, see section 8.

### **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 absorbed material in accordance with regulations.

### **6.4. Reference to other sections**

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

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## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary.

### **7.2. Conditions for safe storage, including any incompatibilities**

Segregate from foods and animal feeds.

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: Keep container tightly closed.

Storage stability:

Protect against moisture.

### **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

Does not contain components with substance specific occupational exposure limits.

#### Components with PNEC

78-40-0: triethyl phosphate

soil: 0.596 mg/kg

STP: 298.5 mg/l

marine water: 0.0632 mg/l

sediment (freshwater): 4.83 mg/l

water: 0.632 mg/l

98-94-2: cyclohexyldimethylamine

freshwater: 0.012 mg/l

marine water: 0.0012 mg/l

intermittent release: 0.035 mg/l

sediment (freshwater): 2.76 mg/kg

sediment (marine water): 0.276 mg/kg

soil: 0.544 mg/kg

STP: 20.6 mg/l

oral (secondary poisoning):

No PNEC value available.

25322-69-4: polypropylenglycol

freshwater: 0.1 mg/l

intermittent release: 1 mg/l

intermittent release: 1.06 mg/l

sediment (freshwater): 765 µg/kg

soil: 109 µg/kg

soil: 0.0306 mg/kg

sediment (freshwater): 0.419 mg/kg

marine water: 0.02 mg/l

sediment (marine water): 76.5 µg/kg

sediment (marine water): 0.0419 mg/kg

freshwater: 0.2 mg/l

STP: 100 mg/l

marine water: 0.01 mg/l

#### Components with DNEL

78-40-0: triethyl phosphate

worker: Long-term exposure - systemic and local effects, Inhalation: 11.7 mg/m<sup>3</sup>

worker: Short-term exposure - systemic and local effects, Inhalation: 93.6 mg/m<sup>3</sup>

worker: Long-term exposure - systemic and local effects, dermal: 3.3 mg/kg

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worker: Short-term exposure - systemic and local effects, dermal: 26.8 mg/kg  
 consumer: Long-term exposure- systemic effects, Inhalation: 2.89 mg/m<sup>3</sup>  
 consumer: Long-term exposure - systemic and local effects, Inhalation: 23.12 mg/m<sup>3</sup>  
 consumer: Long-term exposure- systemic effects, dermal: 1.66 mg/kg  
 consumer: Short-term exposure - systemic effects, dermal: 13.3 mg/kg  
 consumer: Long-term exposure- systemic effects, oral: 1.66 mg/kg  
 consumer: Short-term exposure - systemic effects, oral: 13.3 mg/kg

98-94-2: cyclohexyldimethylamine

worker: Long-term exposure- systemic effects, Inhalation: 0.53 mg/m<sup>3</sup>  
 worker: Long- and short-term exposure - local effects, Inhalation: 8.3 mg/m<sup>3</sup>  
 worker: Long-term exposure- systemic effects, dermal: 0.6 mg/kg

25322-69-4: polypropylenglycol

worker: Long-term exposure- systemic effects, dermal: 13.9 mg/kg  
 Repeated dose toxicity  
 consumer: Long-term exposure- systemic effects, oral: 8.3 mg/kg  
 Repeated dose toxicity  
 worker: Long-term exposure - local effects, by inhalation: 10 mg/m<sup>3</sup>  
 Repeated dose toxicity  
 consumer: Long-term exposure- systemic effects, oral: 24 mg/kg  
 Repeated dose toxicity  
 worker: Long-term exposure- systemic effects, by inhalation: 98 mg/m<sup>3</sup>  
 Repeated dose toxicity  
 consumer: Long-term exposure - local effects, by inhalation: 10 mg/m<sup>3</sup>  
 Repeated dose toxicity  
 consumer: Long-term exposure- systemic effects, dermal: 8.3 mg/kg  
 Repeated dose toxicity  
 consumer: Long-term exposure- systemic effects, dermal: 51 mg/kg  
 Repeated dose toxicity  
 worker: Long-term exposure- systemic effects, dermal: 84 mg/kg  
 Repeated dose toxicity  
 consumer: Long-term exposure- systemic effects, by inhalation: 29 mg/m<sup>3</sup>  
 Repeated dose toxicity

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

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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. Avoid contact with the skin, eyes and clothing. 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.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

|                             |   |                            |
|-----------------------------|---|----------------------------|
| State of matter:            | liquid  |                            |
| Form:                       | liquid  |                            |
| Colour:                     | colourless to yellowish   |                            |
| Odour:                      | amine-like  |                            |
| Odour threshold:            | not applicable  |                            |
| solidification temperature: | < 0 °C  |                            |
| Boiling point:              | > 150 °C  |                            |
| Flammability:               | not flammable   | (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. |                            |
| Upper explosion limit:      | For liquids not relevant for classification and labelling.  |                            |
| Flash point:                | > 150 °C  | (DIN 51758)                |
| Auto-ignition temperature:  | > 250 °C  |                            |
| Thermal decomposition:      | No decomposition if stored and handled as prescribed/indicated.   |                            |
| SADT:                       | Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.                                |                            |
| pH value:                   | approx. 8<br>(20 °C)  |                            |
| Viscosity, kinematic:       | not determined  |                            |



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|   |  |
|---|--|
| Viscosity, dynamic:                                 | 825 mPa.s<br>(25 °C)   |
| Solubility in water:                                | partly soluble   |
| Partitioning coefficient n-octanol/water (log Kow): | not applicable for mixtures, Study scientifically not justified. |
| Vapour pressure:                                    | < 10 mbar<br>(20 °C)   |
| Relative density:                                   | 1.07<br>(20 °C)  |
| Density:  | 1.07 g/cm <sup>3</sup><br>(20 °C)                                |
| Relative vapour density (air):                      | not applicable   |

## 9.2. Other information

### Information with regard to physical hazard classes

#### Oxidizing properties

Fire promoting properties: not fire-propagating

#### Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.

#### Corrosion to metals

No corrosive effect on metal.

### Other safety characteristics

|                         |   |
|-------------------------|---|
| Radioactivity:          | not radioactive for transport purposes  |
| Miscibility with water: | partly miscible   |
| Other Information:      | If necessary, information on other physical and chemical parameters is indicated in this section. |
| SAPT-Temperature:       | Product does not fulfil criteria for polymerizing substances according to transport regulations.  |
| Evaporation rate:       | Value can be approximated from Henry's Law Constant or vapor pressure.                            |

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## 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. |       |
| Reactions with water/air: | Reaction with:                | water |
|                           | Flammable gases:              | no    |
|                           | Toxic gases:                  | no    |

### 10.2. Chemical stability

The product is chemically stable.

Peroxides: The product does not contain peroxides. The product/the substance has not a tendency towards the formation of peroxide.

### 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

See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:  
acids, oxidizing agents, isocyanates

### 10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity:

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

*Information on: polypropylenglycol*

*Experimental/calculated data:*

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

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#### Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

#### Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

#### 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)

Assessment of STOT single:

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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.

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

The product does not contain a substance that is considered to have endocrine disrupting properties according to EU REACH Article 57(f).

#### Other information

Other relevant toxicity information

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

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## **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.

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## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):  
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. Endocrine disrupting properties

The product does not contain a substance that is considered to have endocrine disrupting properties according to EU REACH Article 57(f).

## 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.8. Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

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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

### 13.1. Waste treatment methods

The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments.

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 08<sup>α</sup> other 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

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number or ID number:      | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

RID

|                             |  |
|-----------------------------|--|
|                             | Not classified as a dangerous good under transport regulations |
| UN number or ID number:     | Not applicable   |
| UN proper shipping name:    | Not applicable   |
| Transport hazard class(es): | Not applicable   |
| Packing group:              | Not applicable   |
| Environmental hazards:      | Not applicable   |
| Special precautions for     | None known   |

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user

### **Inland waterway transport**

ADN

|                               |  |
|-------------------------------|--|
|                               | Not classified as a dangerous good under transport regulations |
| UN number or ID number:       | Not applicable   |
| UN proper shipping name:      | Not applicable   |
| Transport hazard class(es):   | Not applicable   |
| Packing group:                | Not applicable   |
| Environmental hazards:        | Not applicable   |
| Special precautions for user: | None known   |

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

|                               |  |
|-------------------------------|--|
|                               | Not classified as a dangerous good under transport regulations |
| UN number or ID number:       | Not applicable   |
| UN proper shipping name:      | Not applicable   |
| Transport hazard class(es):   | Not applicable   |
| Packing group:                | Not applicable   |
| Environmental hazards:        | Not applicable   |
| Special precautions for user: | None known   |

### **Air transport**

IATA/ICAO

|                               |  |
|-------------------------------|--|
|                               | Not classified as a dangerous good under transport regulations |
| UN number or ID number:       | Not applicable   |
| UN proper shipping name:      | Not applicable   |
| Transport hazard class(es):   | Not applicable   |
| Packing group:                | Not applicable   |
| Environmental hazards:        | Not applicable   |
| Special precautions for user: | None known   |

## **14.1. UN number or ID number**

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Product: **Elastopor® H 2101/20 Polyol component**

(ID no. 30561906/SDS\_GEN\_EU/EN)

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See corresponding entries for "UN number or ID 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.

#### **14.6. Special precautions for user**

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

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## **SECTION 15: Regulatory Information**

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

#### Prohibitions, Restrictions and Authorizations

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: no

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.



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## 15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

## SECTION 16: Other Information

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:

|                   |  |
|-------------------|--|
| Acute Tox.        | Acute toxicity                                   |
| Eye Dam./Irrit.   | Serious eye damage/eye irritation                |
| Flam. Liq.        | Flammable liquids                                |
| Skin Corr./Irrit. | Skin corrosion/irritation                        |
| Aquatic Chronic   | Hazardous to the aquatic environment - chronic   |
| H302              | Harmful if swallowed.                            |
| H319              | Causes serious eye irritation.                   |
| H226              | Flammable liquid and vapour.                     |
| H301              | Toxic if swallowed.                              |
| H311              | Toxic in contact with skin.                      |
| H314              | Causes severe skin burns and eye damage.         |
| H331              | Toxic if inhaled.                                |
| H411              | Toxic to aquatic life with long lasting effects. |

### 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.

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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 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.

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