

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Lacryl-PU Blackboard Paint 258, Basis 10  
Lacryl-PU Schultafellack 258, Basis 10

**Revision date :** 04.04.2017

**Print date :** 04.04.2017

**Version (Revision) :** 2.0.0 (1.0.0)

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

### 1.1 Product identifier

Lacryl-PU Blackboard Paint 258, Basis 10  
Lacryl-PU Schultafellack 258, Basis 10

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

#### Relevant identified uses

##### Product Categories [PC]

PC9 - Coatings and paints, fillers, putties, thinners

#### Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG  
www.brillux.de

**Street :** Weseler Straße 401

**Postal code/city :** D - 48163 Münster

**Telephone :** +49 (0)251-7188-0

**Telefax :** +49 (0)251-7188-280

#### Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

### 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):  
(Giftnotruf Berlin, consultation in german or english language)  
Telephone: +49 (0)30 30686 790.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

None

#### Additional information

This product is not dangerous according to the regulation (EC) No. 1272/2008 (CLP).

### 2.2 Label elements

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

##### Special rules for supplemental label elements for certain mixtures

EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE.May produce an allergic reaction.

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

#### Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

#### Description

Dispersion lacquer, PU-reinforced;

Composition:

Acrylic-copolymer-dispersion, titanium dioxide (depending on the shade), inorganic/organic pigments (depending on the shade), calcium carbonate, barium sulphate, silicates, water, glycol ether, additives and preservatives (methyl- and benzisothiazolinone).

#### Hazardous ingredients

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

1,2-BENZISOTHIAZOL-3(2H)-ONE ; EC No. : 220-120-9; CAS No. : 2634-33-5

Weight fraction :  $\geq 0,005 - < 0,05 \%$

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

2-METHYL-2H-ISOTHIAZOL-3-ONE ; EC No. : 220-239-6; CAS No. : 2682-20-4

Weight fraction :  $\geq 0,005 - < 0,05 \%$

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Acute Tox. 3 ; H301 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. If unconscious no administration by mouth, storage in recovery position and seek medical advice. If medical advice is needed, have product container or label at hand.

#### Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration.

#### In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

#### After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

#### After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

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

Allergic symptoms.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

This product is not flammable. In case of a fire extinguish surroundings as indicated.

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### **Unsuitable extinguishing media**

None known.

### **5.2 Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **5.3 Advice for firefighters**

#### **Special protective equipment for firefighters**

When extinguishing fires, use breathing apparatus with an independent source of air.

### **5.4 Additional information**

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

## **SECTION 6: Accidental release measures**

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

Refer to protective measures listed in sections 7 and 8. The product produced in combination with water slippery surfaces.

### **6.2 Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

### **6.3 Methods and material for containment and cleaning up**

#### **For cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Remove residue by rinsing thoroughly with water. Thoroughly clean contaminated objects and floors and observe environmental regulations.

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

See Section 7 for information on safe handling. You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

## **SECTION 7: Handling and storage**

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

#### **Protective measures**

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. For personal protection see Section 8. Keep out of reach of children. Read label before use.

#### **Measures to prevent fire**

This product is not flammable. Cool endangered containers with water.

#### **Advices on general occupational hygiene**

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly in a dry, cool and good ventilated place. Do not store the product in lounge room. Keep only in the original container. Protect against frost. Keep out of the reach of children.

#### **Hints on joint storage**

Store away from foodstuffs.

**Storage class (TRGS 510) :** 12

#### **Further information on storage conditions**

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

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### 7.3 Specific end use(s)

Paint for non-reflecting matt coats, for interior use only on pretreated and primed wood or metal surfaces, e.g. plywood, particleboard or hardboard. As a coating for school blackboards or decorative elements, etc

#### Industrial sector specific solutions

**Giscode :** Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): M-LW01.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : H,Y,AGS  
Version : 06.11.2015  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

#### Remark

Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

#### Biological limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts  
Limit value : 100 mg/l  
Version : 31.03.2004

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Short-term (acute)  
Limit value : 89 mg/kg  
Limit value type : DNEL/DMEL (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 75 mg/kg  
Limit value type : DNEL/DMEL (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 98 mg/m<sup>3</sup>

##### PNEC

Limit value type : PNEC (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )

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Exposure route : Water (Including sewage plant)  
Limit value : 8,8 mg/l  
Limit value type : PNEC (Industrial) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Soil  
Limit value : 2,8 mg/kg

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

### Personal protection equipment

#### Eye/face protection

Use protection glasses in case of spattering.

#### Skin protection

##### Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to DIN EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

##### Body protection

Using protective clothing.

#### Respiratory protection

Breathing protection equipment is not necessary by brush or roll application of the Product in good ventilated rooms.

### General health and safety measures

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe the vapour.

### Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state :** Liquid.

**Colour :** conformable to product designation.

#### Odour

Poor, characteristic.

#### Safety relevant basis data

<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		not applicable	
<b>Flash point :</b>			not applicable	
<b>Ignition temperature :</b>			not applicable	
<b>Vapour pressure :</b>	( 50 °C )		not determined	
<b>Density :</b>	( 20 °C )	approx.	1,32 - 1,38	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )		not applicable	
<b>pH :</b>		approx.	8 - 9	
<b>Flow time :</b>	( 20 °C )		not applicable	DIN-cup 4 mm
<b>Viscosity :</b>	( 20 °C )		thixotropic	

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**VOC-value :** max. 100 g/l

## 9.2 Other information

Other physical and chemical data have not been determined.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

### 10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

### 10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

#### Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	13158 mg/kg
Parameter :	LD50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1480 mg/kg
Parameter :	LD50 ( 1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	532 mg/kg
Parameter :	LD50 ( 2-METHYL-2H-ISOTHIAZOL-3-ONE ; CAS No. : 2682-20-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	285 mg/kg

#### Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	28947 mg/kg
Parameter :	LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )

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Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2-METHYL-2H-ISOTHIAZOL-3-ONE ; CAS No. : 2682-20-4 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalative (vapour)  
Effective dose : 289,5 mg/l  
Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 800 ppm  
Exposure time : 8 h  
Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 700 ppm  
Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 3,9 mg/l  
Exposure time : 8 h  
Parameter : LC50 ( 1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,4 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( 2-METHYL-2H-ISOTHIAZOL-3-ONE ; CAS No. : 2682-20-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,38 mg/l  
Exposure time : 4 h

### Irritant and corrosive effects

Irritation:  
- To the skin: Not expecting any damage or irritancy.  
- At the eye: Not expecting any damage or irritancy.

### Sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

### STOT-single exposure

No risk expected.

### STOT-repeated exposure

No risk expected.

### Aspiration hazard

No risk expected.

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#### 11.4 Other adverse effects

##### Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

#### 11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

##### Aquatic toxicity

###### Acute (short-term) fish toxicity

Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 1474 mg/l  
Exposure time : 96 h

###### Chronic (long-term) fish toxicity

Parameter : NOEC ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Brachydanio rerio (zebra-fish)  
Effective dose : > 100 mg/l  
Exposure time : 21 Days

###### Acute (short-term) daphnia toxicity

Parameter : EC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1550 mg/l  
Exposure time : 48 h

###### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 100 mg/l  
Exposure time : 21 Days

###### Acute (short-term) algae toxicity

Parameter : EbC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 911 mg/l  
Exposure time : 72 h

###### Bacteria toxicity

Parameter : EC0 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Pseudomonas putida  
Effective dose : > 700 mg/l  
Exposure time : 16 h

#### 12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

#### 12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product. No information about the individual components is available either.

#### 12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.  
A penetrating into soil, waters and sewage system should be prevented.

#### 12.5 Results of PBT and vPvB assessment



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This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

##### Waste code product

Disposal-definition No. (AVV-Code): 08 01 12 Paint and varnish waste with the exception of the ones who come under 08 01 11 \*.

##### Waste treatment options

##### Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Do not dispose together with household garbage. Do not empty into waters or drains.

##### Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

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

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

## SECTION 15: Regulatory information

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

#### EU legislation

##### Other regulations (EU)

Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

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Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:  
Category d, type Wb;  
VOC limiting value of the category for 2010: 130 g/l.  
This product contains max. 100 g/l VOC.

### National regulations

#### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

#### Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1.

### 15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds  
ATEmix: Calculated acute toxicity estimate of mixture  
BCF: Bio-Concentration Factor  
CAS: Chemical Abstract Service  
CLP: Classification, Labelling and Packaging  
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction  
CSR: Chemical Safety Report  
DNEL: Derived No Effect Level  
EC: European Commission  
EC50: Effective Concentration 50%  
ECHA: European Chemical Agency  
EEC: European Economic Community  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
EWC: European Waste Catalogue  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IC50: Inhibition Concentration 50%  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC50: Lethal concentration 50%  
LD50: Lethal Dose 50%  
LOAEL: Lowest Observed Adverse Effect Level  
LOEL: Lowest observable effect level  
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)  
MARPOL: Convention for the Prevention of Marine Pollution from Ships  
n.a.: Not applicable  
n.d.: Not determined  
n.r.: Not relevant  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level

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NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
OEL: Occupational Exposure Limit  
PBT: Persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RCP: Reciprocal calculation procedure  
REACH: Registration, Evaluation and Authorization of Chemical  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
SVHC: Substance of Very High Concern  
TLV - TWA: Threshold Limit Value - Time Weighted Average  
VOC: Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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