

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

Article No.: YE20000ALN10 BergerBond Primer E  
Print date: 14.05.2019 Revision date: 11.05.2019 EN  
Version: 5.22 Issue date: 11.05.2019 Page 1 / 9

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) YE20000ALN10  
Trade name/designation BergerBond Primer E  
\*nicht präferenzberechtigt\*  
Stat.Warennummer 35061000

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

**Relevant identified uses:**

paint and/or paint related material  
Reserved for industrial and professional use.

**Uses advised against:**

Do not use for sputtering or spraying.

1.3. **Details of the supplier of the safety data sheet**

**supplier (manufacturer/importer/downstream user/distributor)**

Berger-Seidle GmbH  
Parkettlacke - Klebstoffe - Bauchemie Telephone: +49 6359 / 8005-0  
Maybachstraße 2 Telefax: +49 6359 / 8005-50  
67269 Grünstadt

**Dept. responsible for information:**

Laboratory  
E-mail sicherheitsdaten@berger-lacke.de

1.4. **Emergency telephone number**

Emergency telephone number +49 6359 / 8005-70  
Only available during office hours.

**SECTION 2: Hazards identification**

2.1. **Classification of the substance or mixture**

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P391 Collect spillage.

**Hazard components for labelling**

reaction product: bisphenol-A-(epichlorhydrin)  
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Supplemental Hazard information (EU)**

not applicable

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### 2.3. Other hazards

#### Other information

Read label before use. If medical advice is needed, have product container or label at hand. Keep out of reach of children.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

**Description** Epoxy resin products, solvent-free, sensitising

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

EC No. CAS No. INDEX No.	REACH No. Designation classification // Remark	Wt %
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26-XXXX reaction product: bisphenol-A-(epichlorhydrin) Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2 H315 >= 5	50 - 100
500-006-8 9003-36-5	01-2119454392-40-XXXX Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	12,5 - 20
271-846-8 68609-97-2 603-103-00-4	01-2119485289-22-XXXX oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317	12,5 - 20

#### Additional information

Full text of classification: 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 advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Unsuitable extinguishing media

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strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

not applicable

**DNEL:**

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
INDEX No. 603-103-00-4 / EC No. 271-846-8 / CAS No. 68609-97-2  
DNEL long-term dermal (systemic), Workers: 3,9 mg/kg  
DNEL acute inhalative (local), Workers: 9,8 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 29 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 0,98 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 13,8 mg/m<sup>3</sup>  
DNEL acute dermal, short-term (systemic), Workers: 17 mg/kg  
DNEL acute dermal, short-term (local), Workers: 68 mg/cm<sup>2</sup>  
DNEL long-term dermal (local), Workers: 1,7 mg/cm<sup>2</sup>  
DNEL acute dermal, short-term (systemic), Consumer: 10 mg/kg  
DNEL long-term dermal (systemic), Consumer: 2,35 mg/kg  
DNEL acute inhalative (local), Consumer: 2,9 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 7,6 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 1,46 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 4,1 mg/m<sup>3</sup>  
DNEL acute dermal, short-term (local), Consumer: 40 mg/cm<sup>2</sup>  
DNEL long-term exposure oral (systemic effects), Consumer: 1 mg/kg  
DNEL long-term dermal (local), Consumer: 1 mg/cm<sup>2</sup>

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Personal protection equipment

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

#### **Appearance:**

**Physical state:**

**Liquid**

**Colour:**

**colourless**

**Odour:**

**characteristic**

**Odour threshold:**

**not applicable**

**pH at 20 °C:**

**not applicable**

**Melting point/freezing point:**

**-16 °C**

Source: reaction product: bisphenol-A-(epichlorhydrin)

**Initial boiling point and boiling range:**

**not determined**

**Flash point:**

**> 130 °C**

**Evaporation rate:**

**not applicable**

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<b>flammability</b>	
<b>Burning time (s):</b>	not applicable
<b>Upper/lower flammability or explosive limits:</b>	
<b>Lower explosion limit:</b>	not determined
<b>Upper explosion limit:</b>	not determined
<b>Vapour pressure at 20 °C:</b>	not determined
<b>Vapour density:</b>	not applicable
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	1,12 g/cm <sup>3</sup>
<b>Solubility(ies):</b>	
<b>Water solubility (g/L) at 20 °C:</b>	insoluble
<b>Partition coefficient: n-octanol/water:</b>	see section 12
<b>Auto-ignition temperature:</b>	not determined
<b>Decomposition temperature:</b>	not applicable
<b>Viscosity at 20 °C:</b>	950 mPa*s
<b>Explosive properties:</b>	not applicable
<b>Oxidising properties:</b>	not applicable
<b>9.2. Other information</b>	
<b>Solid content (%):</b>	100 Wt %
<b>solvent content:</b>	
<b>Organic solvents:</b>	0 Wt %
<b>Water:</b>	0 Wt %
<b>Solvent separation test (%):</b>	< 3 Wt % (ADR/RID)

#### SECTION 10: Stability and reactivity

- 10.1. **Reactivity**  
No information available.
- 10.2. **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 10.3. **Possibility of hazardous reactions**  
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4. **Conditions to avoid**  
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. **Incompatible materials**  
not applicable
- 10.6. **Hazardous decomposition products**  
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

#### SECTION 11: Toxicological information

- Classification according to Regulation (EC) No 1272/2008 [CLP]  
No data on preparation itself available.
- 11.1. **Information on toxicological effects**
- Acute toxicity**
- oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
inhalative (vapours), LC0, Rat: > 0,15 mg/l (7 h)  
oral, LD50, Rat: 30,1 mL/kg
- Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
oral, LD50, Rat: > 5000 mg/kg  
dermal, LD50, Rat: > 2000 mg/kg
- Skin corrosion/irritation; Serious eye damage/eye irritation**

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Causes skin irritation.

Causes serious eye irritation.

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
eyes

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
Skin (4 h)

#### **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
Skin:

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

Based on available data, the classification criteria are not met.

#### **STOT-single exposure; STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### **SECTION 12: Ecological information**

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

#### **12.1. Toxicity**

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Fish toxicity, LC50, fish: 5000 mg/l (96 h); evaluation static test

Method: OECD 203

Daphnia toxicity, EL50, Daphnia: 7,2 mg/l (48 h); evaluation static test

Method: OECD 202

Algae toxicity, IC50:, Algae: 843,75 mg/l (72 h); evaluation static test

Method: OECD 201

growth inhibition

Bacteria toxicity, IC50:, Activated sludge: > 100 mg/l (3 h)

Method: OECD 209

Respiratory inhibition of municipal activated sludge.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Fish toxicity, LC50: 0,55 mg/l (96 h); evaluation semistatic

Daphnia toxicity, EC50, Daphnia: 1,6 mg/l (48 h); evaluation static test

Method: OECD 202

Algae toxicity, EC50: 1,8 mg/l (72 h); evaluation static test

Method: OECD 201

growth inhibition

Daphnia toxicity, IC50:, Daphnia: > 0 mg/l (3 h); evaluation static test

#### **Long-term Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Fish toxicity, LC50 (96 h)



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Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,3 mg/l (21 D); evaluation semistatic  
Method: OECD 211  
Reproduction test

**12.2. Persistence and degradability**

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
: 16 % (28 D); evaluation Not readily biodegradable (according to OECD criteria)  
Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.  
(reaction product: bisphenol-A-(epichlorhydrin))

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(reaction product: bisphenol-A-(epichlorhydrin))

Air transport (ICAO-TI / IATA-DGR):

Environmentally hazardous substance, liquid, n.o.s.  
(reaction product: bisphenol-A-(epichlorhydrin))

**14.3. Transport hazard class(es)**

9

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / reaction product: bisphenol-A-(epichlorhydrin)

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

tunnel restriction code

-

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in packages <= 5 litres kein Gut der Klasse 9 (SV 375 ADR)

**Sea transport (IMDG)**

EmS-No. F-A, S-F  
 in packages <= 5 litres not restricted 2.10.2.7

**Air transport (ICAO-TI / IATA-DGR)**

in packages <= 5 litres "Not Restricted, as per Special Provision A197"

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

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

Category: E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200 t / Quantity 2: 500 t

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L) ISO 11890-2: 0

VOC-value (in g/L) ASTM D 2369: 0

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

MAL-Kode (MAL Kode ready-to-use):

PR-No.:

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
500-033-5 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	01-2119456619-26-XXXX
500-006-8 9003-36-5 271-846-8 68609-97-2	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	01-2119454392-40-XXXX 01-2119485289-22-XXXX

**SECTION 16: Other information**

**Full text of classification in section 3**

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

**Classification procedure**

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

Skin Irrit. 2	skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard



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DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.