

## SAFETY DATA SHEET

## RESION UV Resin Art Epoxy LV

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

**1.1. Product identifier**

## Trade name

RESION UV Resin Art Epoxy LV

## Product no.

EP102

## Unique formula identifier (UFI)

F800-90ET-R006-P6GU

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

## Relevant identified uses of the substance or mixture

Epoxy binder

## Uses advised against

No special

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

## Company and address

**Polyestershoppen BV**

Oostbaan 680

2841 ML Moordrecht

Netherlands

+31 85 0220090

## Contact person

-

## E-mail

info@polyestershoppen.nl

## Revision

05/05/2022

## SDS Version

1.0

**1.4. Emergency telephone number**

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

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

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

## Hazard pictogram(s)



**Signal word**

Warning

**Hazard statement(s)**

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

**Safety statement(s)**

**General**

- If medical advice is needed, have product container or label at hand. (P101)
- Keep out of reach of children. (P102)

**Prevention**

- Avoid breathing mist/vapour. (P261)
- Wash hands thoroughly after handling. (P264)
- Wear eye protection/protective gloves/protective clothing. (P280)

**Response**

- IF ON SKIN: Wash with plenty of water and soap. (P302+P352)
- If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

**Storage**

-

**Disposal**

- Dispose of contents/container to an approved waste disposal plant. (P501)

**Hazardous substances**

- bis-[4-(2,3-epoxipropoxy)phenyl]propane
- Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**2.3. Other hazards**

**Additional labelling**

EUH205, Contains epoxy constituents. May produce an allergic reaction.

**Additional warnings**

- Contains epoxy constituents. May produce an allergic reaction.
- This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 REACH: 01-2119456619-26-XXXX Index No.: 603-073-00-2	60-80%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Aquatic Chronic 2, H411	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and	CAS No.: 9003-36-5 EC No.: 500-006-8	25-40%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

phenol	REACH: 01-2119454392-40-XXXX		
	Index No.:		
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS No.: 68609-97-2	15-25%	Skin Irrit. 2, H315 Skin Sens. 1, H317
	EC No.: 271-846-8		
	REACH: 01-2119485289-22-XXXX		
	Index No.: 603-103-00-4		

-----

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

No special

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

Adequately ventilated premises

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
DNEL	0.5 mg/kg bw/day
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
DNEL	0.0893 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
DNEL	0.75 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
DNEL	0.87 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
DNEL	4.93 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
DNEL	6.25 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
DNEL	62.5 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
DNEL	104.15 mg/kg bw/day

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
DNEL	8.7 mg/m3
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
DNEL	29.39 mg/m3
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

#### PNEC

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0.006 mg/L
Route of exposure	Freshwater
Duration of Exposure	Single
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0.001 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0.341 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	Single
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0.034 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	Single
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	10 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

PNEC	0.065 mg/kg
Route of exposure	Soil
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0.003 mg/L
Route of exposure	Freshwater
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0 mg/L
Route of exposure	Marine water
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0.294 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0.025 mg/L
Route of exposure	Intermittent release
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0.029 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	10 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	Single
Product/substance	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
PNEC	0.237 mg/kg
Route of exposure	Soil
Duration of Exposure	Single

## 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

There are no exposure scenarios implemented for this product.

**Exposure limits**

Occupational exposure limits have not been defined for the substances in this product.

**Appropriate technical measures**

Apply standard precautions during use of the product. Avoid inhalation of vapours.

**Hygiene measures**

Take off contaminated clothing and wash it before reuse.

**Measures to avoid environmental exposure**


Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment**


**Generally**

Use only CE marked protective equipment.


**Respiratory Equipment**

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation	-	-	-	
A	Class 2 (medium capacity)	Brown	EN14387	


**Skin protection**

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn	-	-	

**Hand protection**

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	

**Eye protection**

Type	Standards	
Safety glasses with side shields.	EN166	

**SECTION 9: Physical and chemical properties**

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

**Physical state**

Liquid

**Colour**

Pale yellow

**Odour / Odour threshold**

Characteristic



**pH**

Testing not relevant or not possible due to nature of the product.

**Density (g/cm<sup>3</sup>)**

1.13787 (20 °C)

**Kinematic viscosity**

Testing not relevant or not possible due to nature of the product.

**Particle characteristics**

Does not apply to liquids.

**Phase changes****Melting point/Freezing point (°C)**

Testing not relevant or not possible due to nature of the product.

**Softening point/range (waxes and pastes) (°C)**

Does not apply to liquids.

**Boiling point (°C)**

201

**Vapour pressure**

<2 hPa (20 °C)

**Relative vapour density**

Testing not relevant or not possible due to nature of the product.

**Decomposition temperature (°C)**

Testing not relevant or not possible due to nature of the product.

**Data on fire and explosion hazards****Flash point (°C)**

140

**Ignition (°C)**

230

**Auto flammability (°C)**

Testing not relevant or not possible due to nature of the product.

**Lower and upper explosion limit (% v/v)**

Testing not relevant or not possible due to nature of the product.

**Solubility****Solubility in water**

Insoluble

**n-octanol/water coefficient**

Testing not relevant or not possible due to nature of the product.

**Solubility in fat (g/L)**

Testing not relevant or not possible due to nature of the product.

**9.2. Other information****Other physical and chemical parameters**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**

No special

**10.4. Conditions to avoid**

No special

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	15000 mg/kg
Other information	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	23000 mg/kg
Other information	

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### STOT-single exposure

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

#### 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.

### 11.2. Information on other hazards

#### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

**Endocrine disrupting properties**

No special

**Other information**

bis-[4-(2,3-epoxipropoxi)phenyl]propane has been classified by IARC as a group 3 carcinogen.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	2 mg/L
Other information	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	1.8 mg/L
Other information	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	11 mg/L
Other information	

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

**12.6. Endocrine disrupting properties**

No special

**12.7. Other adverse effects**

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 13 - Sensitising

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

**EWC code**

07 02 99 Wastes not otherwise specified



**Specific labelling**

Not applicable

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L Tunnel restriction code: 3 (-) See below for additional information.
IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L EmS: F-A S-F See below for additional information.
IATA	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6	III	Yes	See below for additional information.

\* Packing group

\*\* Environmental hazards

**Additional information**

These substances when carried in single or combination packaging's containing a net quantity per single or

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).  
IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.  
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.  
This product is within scope of the regulations of transport of dangerous goods.

#### 14.6. Special precautions for user

Not applicable

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

No data available

### SECTION 15: Regulatory information

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

##### Restrictions for application

People under the age of 18 shall not be exposed to this product.

##### Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

##### SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

##### Additional information

Not applicable

##### Sources

The Management of Health and Safety at Work Regulations 1999  
Control of Major Accident Hazards (COMAH) Regulations 2015.  
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.  
CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.  
EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

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

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

#### **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

#### **The safety data sheet is validated by**

H.A.B.

#### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en