

05.08.2020

**Kit components**

Product code	Description
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<b>319</b>	<b>Variopox Injectiehars set</b>
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Components:

318	Variopox Injectionresin hardener
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317	Variopox Injectionresin base
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**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 05.08.2020

Version number 39

Revision: 05.08.2020

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

#### 1.1 Product identifier

Trade name: **Variopox Injectionresin hardener**

Article number: 318

UFI: 0TK0-E0K5-D001-J6HG

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

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU19 Building and construction work

Product category PC9a Coatings and paints, thinners, paint removers

Process category PROC19 Manual activities involving hand contact

Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

Article category AC13 Plastic articles

Application of the substance / the mixture See our technical datasheet for application details of this product.  
Epoxy curing agent

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

Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht  
Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

Further information obtainable from: Research and Development.


#### 1.4 Emergency telephone number:

De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl  
Office hours: working days from 08:00 to 17:00 hrs.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

 GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

 GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

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



Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

   
GHS05 GHS07

Signal word

Danger

Hazard-determining components of labelling:

Benzyl alcohol  
Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'-isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan m-phenylenebis(methylamine)

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- EUH071 Corrosive to the respiratory tract.

· Additional information:

**· 2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures**

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25 – 50%
CAS: 38294-64-3 NLP: 500-101-4 Reg.nr.: 01-2119965165-33	Reactieproducten van 3-aminomethyl-3,4,4-trimethylcyclohexyl amine en 4,4'-isopropylideendifenol, oligomere reactieproducten met 1-chloor-2,3-epoxypropaan ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	25 – 50%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10 – 25%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· 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 agents:

Use fire extinguishing methods suitable to surrounding conditions.

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

During heating or in case of fire poisonous gases are produced.

**· 5.3 Advice for firefighters**

· Protective equipment:

Mouth respiratory protective device.

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**Trade name: Variopox Injectionresin hardener**

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**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Mount respiratory protective device.
  - Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralising agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- Information about fire - and explosion protection:
  - Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: Keep container tightly sealed.
    - Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)**
  - No further relevant information available.

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

- Additional information about design of technical facilities:
  - No further data; see item 7.
- **8.1 Control parameters**
  - Ingredients with limit values that require monitoring at the workplace:
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNEL (Derived No Effect Level) for workers		
<b>100-51-6 Benzyl alcohol</b>		
Dermal	Long-term - systemic effects, worker	8 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	22 mg/m <sup>3</sup> (Worker)
<b>1477-55-0 m-phenylenebis(methylamine)</b>		
Dermal	Long-term - systemic effects, worker	0.33 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	1.2 mg/m <sup>3</sup> (Worker)
· DNEL (Derived No Effect Level) for the general population		
<b>100-51-6 Benzyl alcohol</b>		
Oral	Long-term - systemic effects, general population	4 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	4 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	5.4 mg/m <sup>3</sup> (General population)

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· PNEC (Predicted No Effect Concentration) values	
<b>100-51-6 Benzyl alcohol</b>	
Aquatic compartment - freshwater	1 mg/l (Freshwater)
Aquatic compartment - marine water	0.1 mg/l (Marine water)
<b>1477-55-0 m-phenylenebis(methylamine)</b>	
Aquatic compartment - freshwater	0.094 mg/l (Freshwater)
Aquatic compartment - marine water	0.0094 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.152 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	0.43 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.043 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.045 mg/kg dw (Soil)
Sewage treatment plant	10 mg/l (stp)

- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes.
  - Avoid contact with the eyes and skin.
- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands: Protective gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves: Nitrile rubber, NBR
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Recommended thickness of the material:  $\geq 0.3$  mm
- Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials:
  - Leather gloves
  - Strong material gloves
- Eye protection: Tightly sealed goggles

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

<b>· 9.1 Information on basic physical and chemical properties</b>	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value at 20 °C:	11

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**Trade name: Variopox Injectionresin hardener**

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· Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 205 °C
· Flash point:	101 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	435 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	1.3 Vol % 13 Vol %
· Vapour pressure at 20 °C:	0.1 hPa
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	1.04 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic at 20 °C: Kinematic:	280 mPas (Brookfield, ASTM D1544) Not determined.
· Solvent content: Organic solvents: VOC (2004/42/EC):	50.0 % 50.00 %
· Solids content:	100.0 %
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

· <b>10.1 Reactivity</b>	No further relevant information available.
· <b>10.2 Chemical stability</b>	
· Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known.
· <b>10.4 Conditions to avoid</b>	No further relevant information available.
· <b>10.5 Incompatible materials:</b>	No further relevant information available.
· <b>10.6 Hazardous decomposition products:</b>	No dangerous decomposition products known.

**SECTION 11: Toxicological information**

· <b>11.1 Information on toxicological effects</b>	
· Acute toxicity	Harmful if swallowed or if inhaled.
· LD/LC50 values relevant for classification:	

· Components	Type	Value	Species
<b>ATE (Acute Toxicity Estimates)</b>			
Oral	LD50	1,740 mg/kg	(Rat)
Dermal	LD50	4,000 mg/kg	(Rabbit)
<b>100-51-6 Benzyl alcohol</b>			
Oral	LD50	1,230 mg/kg	(Rat)
Dermal	LD50	2,000 mg/kg	(Rabbit)

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<b>1477-55-0 m-phenylenebis(methylamine)</b>	
Oral	LD50   1,040 mg/kg (Rat)
· Primary irritant effect:	
· Skin corrosion/irritation	Causes severe skin burns and eye damage.
· Serious eye damage/irritation	Causes serious eye damage.
· Respiratory or skin sensitisation	May cause an allergic skin reaction.
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
· 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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

· Aquatic toxicity: No further relevant information available.

Type of test	Effective concentration	Method	Assessment
<b>ATE (Acute Toxicity Estimates)</b>			
Inhalative	LC50/4 h	8.45 mg/l	

**1477-55-0 m-phenylenebis(methylamine)**

Inhalative	LC50/4 h	2.4 mg/l (Rat)
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**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

· Ecotoxicological effects:

· Remark:

Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms

**12.5 Results of PBT and vPvB assessment**

· PBT:

Not applicable.

· vPvB:

Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

· Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP6	Acute Toxicity
HP8	Corrosive
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

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Trade name: Variopox Injectionresin hardener

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### SECTION 14: Transport information

· <b>14.1 UN-Number</b> · ADR/RID/ADN, IMDG, IATA	UN2735
· <b>14.2 UN proper shipping name</b> · ADR/RID/ADN  · IMDG, IATA	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE) AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), ISOPHORONEDIAMINE)
· <b>14.3 Transport hazard class(es)</b> · ADR/RID/ADN · Class · Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· <b>14.4 Packing group</b> · ADR/RID/ADN, IMDG, IATA	III
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b> · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE), 8, III

### SECTION 15: Regulatory information

· <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> · Directive 2012/18/EU · Named dangerous substances - ANNEX I · REGULATION (EC) No 1907/2006 ANNEX XVII	None of the ingredients is listed. Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	None of the ingredients is listed.

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- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50.0

- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H332 Harmful if inhaled.
  - H412 Harmful to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008
 

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Acute toxicity - oral Acute toxicity - inhalation Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitisation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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- Department issuing SDS: Research and Development
- Contact: Herman van den Berg, tel: +31 182 372177, e-mail: [safety@de-ijsel-coatings.nl](mailto:safety@de-ijsel-coatings.nl)
- Abbreviations and acronyms:
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - VOC: Volatile Organic Compounds (USA, EU)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 4: Acute toxicity - oral – Category 4
  - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- Sources: Literature data and/or investigation reports are available through the manufacturer.
- \* Data compared to the previous version altered.

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

**1.1 Product identifier**

Trade name: **Variopox Injectionresin base**

Article number: 317

UFI: EQG2-N02G-G00H-AD8R

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

Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU19 Building and construction work

Product category PC9a Coatings and paints, thinners, paint removers

Process category PROC19 Manual activities involving hand contact

Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

Article category AC13 Plastic articles

Application of the substance / the mixture See our technical datasheet for application details of this product.  
Epoxy impregnation

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

Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht  
Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl

Further information obtainable from: Research and Development.


**1.4 Emergency telephone number:**

De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl  
Office hours: working days from 08:00 to 17:00 hrs.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

 GHS09 environment

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

 GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07 GHS09

Signal word Warning

Hazard-determining components of labelling:

bis[4-(2,3-epoxypropoxy)phenyl]propane  
1,6-bis(2,3-epoxypropoxy)hexane  
reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

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

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P261 Avoid breathing mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

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**Trade name: Variopox Injectionresin base**

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P333+P313  
P501

If skin irritation or rash occurs: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/  
national/international regulations.

**2.3 Other hazards**

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**

- Description: Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26	bis[4-(2,3-epoxypropoxy)phenyl]propane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	25 – 50%
CAS: 933999-84-9 EC number: 618-939-5 Reg.nr.: 01-2119463471-41	1,6-bis(2,3-epoxypropoxy)hexane ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25 – 50%
CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40	reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10 – 25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

**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 agents: Use fire extinguishing methods suitable to surrounding conditions.

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

No further relevant information available.

**5.3 Advice for firefighters**

- Protective equipment: No special measures required.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Not required.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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- Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage: No special requirements.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

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

- Additional information about design of technical facilities: No further data; see item 7.
- **8.1 Control parameters**
- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNEL (Derived No Effect Level) for workers			
<b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b>			
Dermal	Long-term - systemic effects, worker	0.75 mg/kg bw/day (Worker)	
Inhalative	Long-term - systemic effects, worker	4.93 mg/m <sup>3</sup> (Worker)	
<b>933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane</b>			
Dermal	Long-term - systemic effects, worker	2.8 mg/kg bw/day (Worker)	
	Long term - local effects, worker	22.6 µg/cm <sup>2</sup> (Worker)	
	Inhalative	Long-term - systemic effects, worker	10.57 mg/m <sup>3</sup> (Worker)
		Long-term - local effects, worker	0.44 mg/m <sup>3</sup> (Worker)
<b>9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)</b>			
Dermal	Acute - local effects, worker	8.3 µg/cm <sup>2</sup> (Worker)	
	Long-term - systemic effects, worker	104.15 mg/kg bw/day (Worker)	
	Inhalative	Long-term - systemic effects, worker	29.39 mg/m <sup>3</sup> (Worker)
· DNEL (Derived No Effect Level) for the general population			
<b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b>			
Oral	Long-term - systemic effects, general population	0.5 mg/kg bw/day (General population)	
Dermal	Long-term - systemic effects, general population	0.0893 mg/kg bw/day (General population)	
Inhalative	Long-term - systemic effects, general population	0.87 mg/m <sup>3</sup> (General population)	
<b>933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane</b>			
Oral	Acute - systemic effects, general population	0.83 mg/kg bw/day (General population)	
	Long-term - systemic effects, general population	0.83 mg/kg bw/day (General population)	
	Dermal	Acute - systemic effects, general population	1.7 mg/kg bw/day (General population)
		Acute - local effects, general population	13.6 µg/cm <sup>2</sup> (General population)
		Long-term - systemic effects, general population	1.7 mg/kg bw/day (General population)

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Inhalative	Long-term - local effects, general population	13.6 µg/cm <sup>2</sup> (General population)
	Acute - systemic effects, general population	2.9 mg/m <sup>3</sup> (General population)
	Long-term - systemic effects, general population	2.9 mg/m <sup>3</sup> (General population)
	Long-term - local effects, general population	0.27 mg/m <sup>3</sup> (General population)
<b>9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)</b>		
Oral	Long-term - systemic effects, general population	6.25 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	62.5 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects, general population	8.7 mg/m <sup>3</sup> (General population)

· PNEC (Predicted No Effect Concentration) values

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Aquatic compartment - freshwater	0.006 mg/l (Freshwater)
Aquatic compartment - marine water	0.001 mg/l (Marine water)
Aquatic compartment - sediment in freshwater	0.341 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.034 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.065 mg/kg dw (Soil)
Sewage treatment plant	10 mg/l (stp)
Oral secondary poisoning	11 mg/kg food (Food sec poisoning)

**933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane**

Aquatic compartment - freshwater	0.0115 mg/l (Freshwater)
Aquatic compartment - marine water	0.0015 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.115 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	0.283 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.283 mg/kg sed dw (Sediment marine water)

**9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

Aquatic compartment - freshwater	0.003 mg/l (Freshwater)
Aquatic compartment - marine water	0.0003 mg/l (Marine water)
Aquatic compartment - water, intermittent releases	0.0254 mg/l (Intermittent release water)
Aquatic compartment - sediment in freshwater	0.294 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment in marine water	0.0294 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil	0.237 mg/kg dw (Soil)
Sewage treatment plant	10 mg/l (stp)

· Additional information: The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

· Personal protective equipment:  
· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: ≥ 0.3 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves  
Strong material gloves
- Eye protection: Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· General Information</li> <li>· Appearance: <ul style="list-style-type: none"> <li>Form: Fluid</li> <li>Colour: According to product specification</li> </ul> </li> <li>· Odour: Characteristic</li> <li>· Odour threshold: Not determined.</li> </ul>	
· pH-value at 20 °C:	7
· Change in condition <ul style="list-style-type: none"> <li>Melting point/freezing point: Undetermined.</li> <li>Initial boiling point and boiling range: Undetermined.</li> </ul>	
· Flash point:	151 °C (Pensky Martens, ASTM D93)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	0 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: <ul style="list-style-type: none"> <li>Lower: 0.0 Vol %</li> <li>Upper: 0.0 Vol %</li> </ul>	
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.124 g/cm <sup>3</sup> (DIN 51757, ASTM D 1298)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: <ul style="list-style-type: none"> <li>Dynamic: Not determined.</li> <li>Kinematic: Not determined.</li> </ul>	
· Solvent content: <ul style="list-style-type: none"> <li>VOC (2004/42/EC): 0.00 %</li> </ul>	
· Solids content:	100.0 %
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Components	Type	Value	Species
<b>933999-84-9 1,6-bis(2,3-epoxypropoxy)hexane</b>			
Oral	LD50	2,900 mg/kg	(Rat)
Dermal	LD50	> 4,900 mg/kg	(Rat)
<b>9003-36-5 reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)</b>			
Oral	LD50	23,800 mg/kg	(Rat)
Dermal	LD50	> 2,000 mg/kg	(Rabbit)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish

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08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b> · ADR/RID/ADN, IMDG, IATA	UN3082
· <b>14.2 UN proper shipping name</b> · ADR/RID/ADN  · IMDG  · IATA	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· <b>14.3 Transport hazard class(es)</b> · ADR/RID/ADN · Class · Label	9 (M6) Miscellaneous dangerous substances and articles. 9
· IMDG, IATA · Class · Label	9 Miscellaneous dangerous substances and articles. 9
· <b>14.4 Packing group</b> · ADR/RID/ADN, IMDG, IATA	III
· <b>14.5 Environmental hazards:</b>  · Marine pollutant:  · Special marking (ADR/RID/ADN): · Special marking (IATA):	Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· Transport/Additional information:  · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E

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<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	<p>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700), REACTION PRODUCT: BISPHENOL-F-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III</p>

**SECTION 15: Regulatory information**

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases 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.  
H412 Harmful to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

<p>Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitisation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard</p>	<p>The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.</p>
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- Department issuing SDS: Research and Development
- Contact: Herman van den Berg, tel: +31 182 372177, e-mail: [safety@de-ijsjel-coatings.nl](mailto:safety@de-ijsjel-coatings.nl)
- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Literature data and/or investigation reports are available through the manufacturer.

· Sources:

· \* Data compared to the previous version altered.