

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 5 (replaces version 4)

Revision: 25.01.2024

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

#### 1.1 Product identifier

- Trade name: **Akepox 1005 Component A**
- Article number: 10573, 11656, 11658, 11659, 11665, 12661
- UFI: YYU2-H0UA-N001-4A5Y

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

No further relevant information available.

#### Application of the substance / the mixture

Reaction resin

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg
- Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

#### Further information obtainable from:

Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

- 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.
- Muta. 2 H341 Suspected of causing genetic defects.
- Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

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



GHS07 GHS08 GHS09

#### Signal word

Warning

#### Hazard-determining components of labelling:

bis[4-(2,3-epoxypropoxy)phenyl]propane  
2,3-epoxypropyl o-tolyl ether

#### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
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 carefully and follow all instructions.  
P261 Avoid breathing vapours.  
P271 Use only outdoors or in a well-ventilated area.

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

Contains epoxy constituents. May produce an allergic reaction.

· **2.3 Other hazards**· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

**SECTION 3: Composition/information on ingredients**· **3.2 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-xxxx	bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	50-100%
CAS: 2210-79-9 EINECS: 218-645-3 Index number: 603-056-00-X Reg.nr.: 01-2119966907-18	2,3-epoxypropyl o-tolyl ether Muta. 2, H341 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	12.5-25%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-0000	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319	<12.5%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318 Aquatic Chronic 3, H412	1-5%

· 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:Take affected persons out into the fresh air.  
Position and transport stably in side position.  
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:If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.

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- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Breathing difficulty
  - Coughing
  - Profuse sweating
  - Headache
  - Dizziness
  - Dizziness
  - Allergic reactions
  - Nausea
  - Danger of impaired breathing.
- Hazards
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - If swallowed, gastric irrigation with added, activated carbon.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
  - In case of fire, the following can be released:
  - Carbon monoxide (CO)
  - Hydrogen chloride (HCl)
  - Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- Protective equipment:
  - Wear fully protective suit.
  - Wear self-contained respiratory protective device.
  - Do not inhale explosion gases or combustion gases.
- Additional information
  - Collect contaminated fire fighting water separately. It must not enter the sewage system.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**
  - Do not allow to penetrate the ground/soil.
  - 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:**
  - Dispose of the material collected according to regulations.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to section 13.
  - Ensure adequate ventilation.
- **6.4 Reference to other sections**
  - See Section 13 for disposal information.

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See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.  
Ensure good ventilation/exhaustion at the workplace.

**Information about fire - and explosion protection:**

No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Store away from reducing agents.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.  
Keep container tightly sealed.

**Storage class:**

10

**7.3 Specific end use(s)**

No further relevant information available.

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

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

Oral	DNEL (Kurzzeit-akut)	0.5 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.5 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	8.33 mg/kg bw/day (ARB) 3.571 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.75 mg/kg bw/day (ARB) 0.0893 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	12.25 mg/m <sup>3</sup> Air (ARB)
	DNEL (Langzeit-wiederholt)	4.93 mg/m <sup>3</sup> Air (ARB) 0.87 mg/m <sup>3</sup> Air (BEV)

**100-51-6 Benzyl alcohol**

Oral	DNEL (Kurzzeit-akut)	20 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	4 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	40 mg/kg bw/day (ARB) 20 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	8 mg/kg bw/day (ARB) 4 mg/kg bw/day (BEV)

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Inhalative	DNEL (Kurzzeit-akut)	110 mg/m <sup>3</sup> Air (ARB) 27 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	22 mg/m <sup>3</sup> Air (ARB) 5.4 mg/m <sup>3</sup> Air (BEV)

**2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane**

Oral	DNEL (Langzeit-wiederholt)	12.5 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	21 mg/kg bw/day (ARB) 12.5 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	21 mg/kg bw/day (ARB) 5 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	147 mg/m <sup>3</sup> Air (ARB) 43.5 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	147 mg/m <sup>3</sup> Air (ARB) 43.5 mg/m <sup>3</sup> Air (BEV)

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

PNEC (wässrig)	10 mg/l (KA)
	0.0006 mg/l (MW)
	0.006 mg/l (SW)
	0.018 mg/l (WAS)
PNEC (fest)	0.065 mg/kg Trockengew (BO)
	0.034 mg/kg Trockengew (MWS)
	0.341 mg/kg Trockengew (SWS)

**100-51-6 Benzyl alcohol**

PNEC (wässrig)	39 mg/l (KA)
	0.1 mg/l (MW)
	1 mg/l (SW)
	2.3 mg/l (WAS)
PNEC (fest)	0.456 mg/kg Trockengew (BO)
	0.527 mg/kg Trockengew (MWS)
	5.27 mg/kg Trockengew (SWS)

**2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane**

PNEC (wässrig)	8.2 mg/l (KA)
	0.1 mg/l (MW)
	1 mg/l (SW)
	1 mg/l (WAS)
PNEC (fest)	0.14 mg/kg Trockengew (BO)
	0.36 mg/kg Trockengew (MWS)
	3.6 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

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Respiratory protection:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Not necessary if room is well-ventilated.

Short term filter device:

Filter A/P2

Not required.

Hand 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.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

Kresto Classic (<http://debstoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



## Protective gloves

STOKODERM(<http://www.stoko.com>)STOKO EMULSION (<http://www.stoko.com>)FRAPANTOL (<http://www.stoko.com>)

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

Butyl rubber, BR

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.

Penetration time of glove material

Value for the permeation: Level ≤ 6, 480 min

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

For the permanent contact gloves made of the following materials are suitable:

Butoject (KCL, Art\_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art\_No. 730, 731, 732, 733)

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· As protection from splashes gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art\_No. 897, 898)  
 Fluorocarbon rubber (Viton)  
 Vitoject (KCL, Art\_No. 890)  
 Nitrile rubber, NBR  
 Camatril (KCL, 730, 731, 732, 733)  
 Butoject (KCL, Art\_No. 897, 898)  
 Camapren (KCL, Art\_No. 720, 722, 726)  
 Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Natural rubber, NR  
 Leather gloves  
 Strong material gloves  
 Nitrile rubber, NBR

· Eye/face protection



Tightly sealed goggles

· Body protection:

Protective work clothing

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

· General Information

· Colour:

Various colours

· Odour:

Specific type

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

200 °C

· Lower and upper explosion limit

· Lower:

1.3 Vol %

· Upper:

13 Vol %

· Flash point:

150 °C

· Auto-ignition temperature:

435 °C

· Decomposition temperature:

&gt; 200 °C °C

· pH

Not determined.

Not applicable

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic at 20 °C:

225 mPas

· Solubility

· water:

Not miscible or difficult to mix.

· Vapour pressure at 20 °C:

2 hPa

· Density and/or relative density

· Density at 20 °C:

1.13 g/cm<sup>3</sup>**9.2 Other information**

· Appearance:

· Form:

Fluid

· Important information on protection of health and environment, and on safety.

· Ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Solvent content:

· Organic solvents:

12.0 %

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· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

**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 and stored according to specifications.
· <b>10.3 Possibility of hazardous reactions</b>	May produce violent reactions with bases and numerous organic substances including alcohols and amines. Exothermic polymerisation. Reacts with strong acids.
· <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>	Irritant gases/vapours

**SECTION 11: Toxicological information**

· <b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>	
· Acute toxicity	Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	8,667 mg/kg
Dermal	LD50	16,667 mg/kg (rabbit)
Inhalative	LC50/4 h	>34.8 mg/l (rat)

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

Oral	LD50	>2,000 mg/kg (rat) (OECD 420)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

**2210-79-9 2,3-epoxypropyl o-tolyl ether**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

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Inhalative	LC50/4 h	6.09 mg/l (rat) (OECD 403)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1,040 mg/kg (mouse)
		1,040 mg/kg (rabbit)
		1,620 mg/kg (rat)
		NOEL
NOAEL	400 mg/kg (rat)	
	200 mg/kg (mouse)	
Dermal	LD50	400 mg/kg (rat)
		2,000 mg/kg (rabbit)
Inhalative	LC50/8h	1,000 ppm (rat)
	LC50/4 h	>4.178 mg/l (rat) (OECD 403)
	LC50/48h	360 mg/l (daphnia magna)
		645 mg/l (goo)
<b>2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane</b>		
Oral	LD50	8,025 mg/kg (rat) (OECD 401)
		NOAEL-Werte
		≥5 mg/kg (mouse)
Dermal	LD50	200 mg/kg (rabbit) (OECD 414)
		500 mg/kg (rat) (OECD 415)
		4,250 mg/kg (rabbit) (OECD 402)
		NOAEC
Inhalative	LC50/4 h	>5.3 mg/l (rat) (OECD 403)
		0.225 mg/l (rat) (OECD 412)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Suspected of causing genetic defects.
- 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**

- Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity**

- Aquatic toxicity:

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

IC50	>100 mg/l (BES)
EC10/16h	100 mg/l (pseudomonas putida)
EC50/48h	1.8 mg/l (daphnia magna)
NOEC/21d	0.3 mg/l (daphnia magna)
EC50/72h	11 mg/l (selenastrum capricornutum)
LC50/96h	2 mg/l (Oncorhynchus mykiss)

**2210-79-9 2,3-epoxypropyl o-tolyl ether**

EC50/48h	3.3 mg/l (daphnia magna) (OECD 202)
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EC50/72h 5.1 mg/l (senastrum capricornutum) (OECD 201)

LC50/96h 2.8 mg/l (Oncorhynchus mykiss) (OECD 203)

**100-51-6 Benzyl alcohol**

EC50/24h 55-400 mg/l (daphnia magna)

EC50/96h 640 mg/l (Scenedesmus pluvialis)

EC50 2,100 mg/l (BES) (OECD 209)

79 mg/l (Scenedesmus quadricauda)

EC10/16h 658 mg/l (pseudomonas putida)

EC50/48h 230 mg/l (daphnia magna) (OECD 202)

ErC50/72h 770 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

EC0 640 mg/l (Scenedesmus quadricauda)

EC50/16h 658 mg/l (pseudomonas putida)

EC50/30min 71.4 mg/l (Photobac. phosphoreum)

400 mg/l (pseudomonas putida)

IC5/96h 640 mg/l (Scenedesmus quadricauda)

NOEC 310 mg/kg (Pseudokirchneriella subcapitata) (OECD 201)

NOEC/21d 51 mg/l (daphnia magna) (OECD211)

EC50/72h 770 mg/l (algae) (OECD 201)

500 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

LC50/96h 645 mg/l (goo)

10 mg/l (Iepomis macrochirus)

8.9 mg/l (Oncorhynchus mykiss)

460 mg/l (Pimephales promelas) (EPA OPP 72-1)

**2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane**

EC50/96h 350 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

&gt;100 mg/l (salmon)

EC50 119 mg/l (algae)

IC50 255 mg/l (Scenedesmus subspicatus)

EC50/48h 324 mg/l (daphnia magna)

EC10/5h 1,500 mg/l (pseudomonas putida)

ErC50/72h 350 mg/l (Senastrum capricornutum)

ECO/96h 44 mg/l (Cyprinus carpio)

NOEC &gt;100 mg/kg (Klärschlamm: Atmungs-/Vermehrungshemmung) (OECD 209)

NOEC/21d ≥100 mg/l (daphnia magna) (OECD 211)

EC50/48h 324-710 mg/l (daphnia magna) (OECD 202)

EC50/72h 255 mg/l (Scenedesmus subspicatus)

LC50/96h 55 mg/l (Cyprinus carpio) (OECD 203)

276 mg/l (Iem)

237 mg/l (Oncorhynchus mykiss)

**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.

**12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- Remark:

Toxic for fish

- Additional ecological information:

- General notes:

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

**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

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

- Uncleaned packaging:

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- Recommended cleansing agents:

Alcohol

**SECTION 14: Transport information**

- **14.1 UN number or ID number**

- ADR, IMDG, IATA

UN3082

- **14.2 UN proper shipping name**

- ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether)

- IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether), MARINE POLLUTANT

- IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether)

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

- ADR



- Class

9 (M6) Miscellaneous dangerous substances and articles.

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· <u>Label</u>	9
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	9 Miscellaneous dangerous substances and articles.
· <u>Label</u>	9
· <b>14.4 Packing group</b>	
· <u>ADR, IMDG, IATA</u>	III
· <b>14.5 Environmental hazards:</b>	
· <u>Marine pollutant:</u>	Yes Symbol (fish and tree)
· <u>Special marking (ADR):</u>	Symbol (fish and tree)
· <u>Special marking (IATA):</u>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <u>Hazard identification number (Kemler code):</u>	90
· <u>EMS Number:</u>	F-A,S-F
· <u>Stowage Category</u>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>Transport category</u>	3
· <u>Tunnel restriction code</u>	(-)
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>UN "Model Regulation":</u>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, 2,3-EPOXYPROPYL O-TOLYL ETHER), 9, III

**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

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EU

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· 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.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 135.6 g/l

· **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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory

· Date of previous version: 25.07.2022

· Version number of previous version: 4

· 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 relatif au transport international 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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
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

EU