

# Safety data sheet

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

Printing date 09.02.2024

Version number 3 (replaces version 2)

Revision: 09.02.2024

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

#### 1.1 Product identifier

- Trade name: **Akepox 1009 Component B**
- Article number: 13682, 13683, 13684, 13697, 13716
- UFI: DAX6-JOUP-G00G-UTXX

#### 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

- Acute Tox. 4 H302 Harmful if swallowed.
- Acute Tox. 4 H312 Harmful in contact with skin.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
- Aquatic Chronic 3 H412 Harmful 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.



GHS05 GHS07 GHS08

#### Signal word

Danger

#### Hazard-determining components of labelling:

2-piperazin-1-ylethylamine  
m-phenylenebis(methylamine)  
1,3-Cyclohexanedimethanamine  
Benzyl alcohol  
phenole, styrenated

#### Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

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· <u>Precautionary statements</u>	H361	Suspected of damaging fertility or the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H412	Harmful to aquatic life with long lasting effects.
	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.
	P260	Do not breathe vapours.
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
	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.	
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.	

· **2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Determination of endocrine-disrupting properties

61788-44-1	phenole, styrenated	List II
69-72-7	salicylic acid	List II; III

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

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

· Dangerous components:

CAS: 2579-20-6 EINECS: 219-941-5 Reg.nr.: 01-2119543741-41-xxxx	1,3-Cyclohexanedimethanamine ----- Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312 Aquatic Chronic 3, H412	25-50%
CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4 Reg.nr.: 01-2119471486-30-0000	2-piperazin-1-ylethylamine ----- Acute Tox. 3, H311 Repr. 2, H361; STOT RE 1, H372 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	25-50%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxxx	m-phenylenebis(methylamine) ----- Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317 Aquatic Chronic 3, H412 EUH071	12.5-25%

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CAS: 61788-44-1 EINECS: 262-975-0 Reg.nr.: 01-2119979575-18	phenole, styrenated Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	<10%
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	<10%
CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17	salicylic acid Repr. 2, H361d Eye Dam. 1, H318 Acute Tox. 4, H302	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.  
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: If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- 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**

Allergic reactions  
Headache  
Dizziness  
Dizziness  
Breathing difficulty  
Profuse sweating  
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)  
Nitrogen oxides (NO<sub>x</sub>)

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#### · **5.3 Advice for firefighters**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

#### · 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.

Wear protective equipment. Keep unprotected persons away.

#### · **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:**

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

Use neutralising agent.

Dispose contaminated material as waste according to section 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**

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 foodstuffs.

##### · Further information about storage conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

##### · Storage class:

6.1 C

#### · **7.3 Specific end use(s)**

No further relevant information available.

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**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**2579-20-6 1,3-Cyclohexanedimethanamine**

Inhalative	DNEL (Langzeit-wiederholt)	0.00947 mg/m <sup>3</sup> Air (ARB)
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**140-31-8 2-piperazin-1-ylethylamine**

Dermal	DNEL (Kurzzeit-akut)	20 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	10.6 mg/m <sup>3</sup> Air (ARB)
	DNEL (Langzeit-wiederholt)	10.6 mg/m <sup>3</sup> Air (ARB)

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

Dermal	DNEL ( Langzeit-wiederholt)	0.33 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	0.2 mg/m <sup>3</sup> Air (ARB)
	DNEL (Langzeit-wiederholt)	1.2 mg/m <sup>3</sup> Air (ARB)

**61788-44-1 phenole, styrenated**

Oral	DNEL (Langzeit-wiederholt)	1.562 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	6.25 mg/kg bw/day (ARB)
		3.125 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	11.02 mg/m <sup>3</sup> Air (ARB)
		2.717 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)
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)

**69-72-7 salicylic acid**

Oral	DNEL (Kurzzeit-akut)	4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	2 mg/kg bw/day (ARB)
		1 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	16 mg/m <sup>3</sup> Air (ARB)
		0.2-4 mg/m <sup>3</sup> Air (BEV)

· PNECs**2579-20-6 1,3-Cyclohexanedimethanamine**

PNEC (wässrig)	10 mg/l (KA)
	0.003 mg/l (MW)

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	0.033 mg/l (SW)
<b>140-31-8 2-piperazin-1-ylethylamine</b>	
PNEC (wässrig)	250 mg/l (KA) 0.0058 mg/l (MW) 0.058 mg/l (SW) 0.58 mg/l (WAS)
PNEC (fest)	21.51 mg/kg Trockengew (MWS) 215 mg/kg Trockengew (SWS)
<b>1477-55-0 m-phenylenebis(methylamine)</b>	
PNEC (wässrig)	10 mg/l (KA) 0.0094 mg/l (MW) 0.094 mg/l (SW) 0.152 mg/l (WAS)
PNEC (fest)	2.44 mg/kg Trockengew (BO) 1.24 mg/kg Trockengew (MWS) 12.4 mg/kg Trockengew (SWS)
<b>61788-44-1 phenole, styrenated</b>	
PNEC (wässrig)	36.2 mg/l (KA) mg/l (MW) 0.001 mg/l (SW)
PNEC (fest)	0.355 mg/kg Trockengew (BO) 0.186 mg/kg Trockengew (MWS) 1.86 mg/kg Trockengew (SWS)
<b>100-51-6 Benzyl alcohol</b>	
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)
<b>69-72-7 salicylic acid</b>	
PNEC (wässrig)	162 mg/l (KA) 0.02 mg/l (MW) 0.2 mg/l (SW)
PNEC (fest)	0.166 mg/kg Trockengew (BO) 0.142 mg/kg Trockengew (MWS) 1.42 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:

Use skin protection cream for skin protection.  
Clean skin thoroughly immediately after handling the product.  
Keep away from foodstuffs, beverages and feed.

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Respiratory protection:

Immediately remove all soiled and contaminated clothing  
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

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

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  
Nitrile rubber, NBR  
Chloroprene rubber, CR  
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  $\leq$  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:

Butyl rubber, BR  
Butoject (KCL, Art\_No. 897, 898)  
Nitrile rubber, NBR  
Camatril (KCL, Art\_No. 730, 731, 732, 733)

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- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <u>As protection from splashes gloves made of the following materials are suitable:</u></li> <li>· <u>Not suitable are gloves made of the following materials:</u></li> <li>· <u>Eye/face protection</u></li> <li>· <u>Body protection:</u></li> </ul> | <p>Dermatril (Art_No. 740, 741, 742)<br/>Chloroprene rubber, CR<br/>Camapren (KCL, Art_No. 720, 722, 726)</p> <p>Nitrile rubber, NBR<br/>Dermatril (KCL, Art_No. 740, 741, 742)<br/>Camatril (KCL, 730, 731, 732, 733)<br/>Chloroprene rubber, CR<br/>Camapren (KCL, Art_No. 720, 722, 726)</p> <p>Leather gloves<br/>Strong material gloves</p> <p> Tightly sealed goggles</p> <p>Protective work clothing</p> |
|---|--|

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

- |   |                                   |
|---|-----------------------------------|
| · <u>General Information</u>                                      |                                   |
| · <u>Colour:</u>  | Yellowish                         |
| · <u>Odour:</u>   | Amine-like                        |
| · <u>Melting point/freezing point:</u>                            | Undetermined.                     |
| · <u>Boiling point or initial boiling point and boiling range</u> | >200 °C                           |
| · <u>Lower and upper explosion limit</u>                          |                                   |
| · <u>Lower:</u>   | 2.1 Vol %                         |
| · <u>Upper:</u>   | 10.5 Vol %                        |
| · <u>Flash point:</u>   | >100 °C                           |
| · <u>Auto-ignition temperature:</u>                               | 315 °C                            |
| · <u>pH</u>   | Not determined.                   |
|   | Not applicable                    |
| · <u>Viscosity:</u>   |                                   |
| · <u>Kinematic viscosity</u>                                      | Not determined.                   |
| · <u>Dynamic at 20 °C:</u>  | 120 mPas                          |
| · <u>Solubility</u>   |                                   |
| · <u>water:</u>   | Not miscible or difficult to mix. |
| · <u>Vapour pressure at 20 °C:</u>                                | 0.1 hPa                           |
| · <u>Density and/or relative density</u>                          |                                   |
| · <u>Density at 20 °C:</u>  | 1.03 g/cm <sup>3</sup>            |

**9.2 Other information**

- |  |   |
|--|---|
| · <u>Appearance:</u>   |   |
| · <u>Form:</u>   | Fluid   |
| · <u>Important information on protection of health and environment, and on safety.</u> |   |
| · <u>Ignition temperature:</u>   | Product is not selfigniting.                  |
| · <u>Explosive properties:</u>   | Product does not present an explosion hazard. |
| · <u>Solvent content:</u>  |   |
| · <u>Organic solvents:</u>   | 17.2 %  |

· Information with regard to physical hazard classes

- |                          |      |
|--------------------------|------|
| · <u>Explosives</u>      | Void |
| · <u>Flammable gases</u> | Void |
| · <u>Aerosols</u>        | Void |

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· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Strong exothermic reaction with acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Corrosive gases/vapours

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Harmful if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	>588-1,759 mg/kg
Dermal	LD50	1,692 mg/kg
Inhalative	LC50/4 h	>8.47 mg/l (rat)

**2579-20-6 1,3-Cyclohexanedimethanamine**

Oral	LD50	>300-2,000 mg/kg (rat) (OECD 423)
	LD0	>300 mg/kg (rat)
	LD100	2,000 mg/kg (rat)
Dermal	LD50	1,700 mg/kg (rabbit)
	LC50/48h	33.1 mg/l (daphnia magna)

**140-31-8 2-piperazin-1-ylethylamine**

Oral	LD50	2,097 mg/kg (rabbit)
		1,470-2,140 mg/kg (rat)
Dermal	LD50	866 mg/kg (rabbit)
		866-1,260 mg/kg (rat)

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

Oral	LD50	930 mg/kg (rat) (OECD 401)
	NOEL	150 mg/kg (rat)
Dermal	LD50	3,100 mg/kg (rabbit)
Inhalative	LC50/4 h	1.34 mg/l (rat) (OECD 403)
	LC50/1h	3.89 mg/l (rat)

**61788-44-1 phenole, styrenated**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>5,010 mg/kg (rabbit)
		>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4.9 mg/l (rat)

**100-51-6 Benzyl alcohol**

Oral	LD50	1,040 mg/kg (mouse)
		1,040 mg/kg (rabbit)
		1,620 mg/kg (rat)
Dermal	NOEL NOAEL	400 mg/kg (rat)
		200 mg/kg (mouse)
		400 mg/kg (rat)
Inhalative	LD50	2,000 mg/kg (rabbit)
	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)

**69-72-7 salicylic acid**

Oral	LD50	891 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat) (OECD 416)
Dermal	LD50	>2,000 mg/kg (rabbit)
	LC50/48h	90 mg/l (Leuciscus idus)

- 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.
- 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 Suspected of damaging fertility or the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.
- Aspiration hazard Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

- Endocrine disrupting properties

61788-44-1 phenole, styrenated

List II

69-72-7 salicylic acid

List II; III

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**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****2579-20-6 1,3-Cyclohexanedimethanamine**

EC50	>1,000 mg/l (BES) 90 mg/l ( <i>pseudomonas putida</i> )
EC50/48h	65.4 mg/l ( <i>daphnia magna</i> ) (OECD 202)
ErC50/72h	>100 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (OECD 201)
LC100/96h	180 mg/l ( <i>Leuciscus idus</i> )
NOELR/72h	14.4 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (OECD 201)
EC50/72h	29.7 mg/l ( <i>selenastrum capricornutum</i> )
LC50/96h	130 mg/l ( <i>Leuciscus idus</i> ) (OECD 203)
EBC50	58.4 mg/l ( <i>Pseudokirchneriella subcapitata</i> )

**140-31-8 2-piperazin-1-ylethylamine**

EC50	511 mg/l (bacteria)
EC50/48h	58 mg/l ( <i>daphnia magna</i> ) 494 mg/l ( <i>Selenastrum capricornutum</i> )
EC20/0.5h	>1,000 mg/l (BES)
EC50/72h	>1,000 mg/l ( <i>pseudomonas putida</i> ) 494 mg/l ( <i>Selenastrum capricornutum</i> )
LC50/96h	2,190 mg/l ( <i>piscis</i> ) 368 mg/l ( <i>Leuciscus idus</i> ) >100 mg/l ( <i>Oncorhynchus mykiss</i> ) >1,800 mg/l ( <i>poecilia reticulata</i> )

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

EC50/24h	35.1 mg/l ( <i>daphnia magna</i> )
EC50/48h	15.2 mg/l ( <i>daphnia magna</i> ) (OECD 202)
EC50/30min	>1,000 mg/l (BES)
NOEC/21d	4.7 mg/l ( <i>daphnia magna</i> ) (OECD 211)
EC50/72h	12 mg/l ( <i>Scenedesmus subspicatus</i> ) 32.1 mg/l ( <i>selenastrum capricornutum</i> ) (OECD 201)
LC50/96h	>100 mg/l ( <i>Oncorhynchus mykiss</i> ) 87.6 mg/l ( <i>Oryzias latipes</i> ) (OECD 203) >100 mg/l ( <i>Zebrabärbling</i> )

**61788-44-1 phenole, styrenated**

EC50	362 mg/l (BES) 3.8 mg/l ( <i>piscis</i> )
EL50/48h	4.6 mg/l ( <i>daphnia magna</i> )
EL50/72h	20.42 mg/l (CHV) 3.14 mg/l ( <i>Scenedesmus subspicatus</i> )
LL50/96h	24 mg/l ( <i>Danio rerio.</i> ) 14.8 mg/l ( <i>piscis</i> )
NOEC/21d	0.2 mg/l ( <i>daphnia magna</i> )
EC50/72h	9.7 mg/l (algae)

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LC50/96h	5.6 mg/l (Brachydanio rerio)
<b>100-51-6 Benzyl alcohol</b>	
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)
<b>69-72-7 salicylic acid</b>	
EC50	380 mg/l (BES) (OECD 209)
LC50/24h	105-230 mg/l (daphnia magna)
EC50/48h	870 mg/l (daphnia magna) (OECD 202)
EC50/16h	380 mg/l (bacteria)
NOEC/21d	10 mg/l (daphnia magna) (OECD 202 II)
EC50/72h	>100 mg/l (algae) (OECD 201)
LC50/96h	1,370 mg/l (piscis) (OECD 203)
	1,380 mg/l (pimephales promelas)

· **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.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· Remark:

Toxic for fish

· Additional ecological information:

· General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

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**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 UN2735

**· 14.2 UN proper shipping name**

· ADR 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, polyethylenepoly-, triethylenetetraamine fraction, N-AMINOETHYLPIPERAZINE)

· IMDG, IATA AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, polyethylenepoly-, triethylenetetraamine fraction, N-AMINOETHYLPIPERAZINE)

**· 14.3 Transport hazard class(es)**· ADR

· Class 8 (C7) Corrosive substances.

· Label 8

· IMDG, IATA

· Class 8 Corrosive substances.

· Label 8

**· 14.4 Packing group**

· ADR, IMDG, IATA II

**· 14.5 Environmental hazards:**

· Marine pollutant: Product contains environmentally hazardous substances:

Yes

**· 14.6 Special precautions for user**

· Hazard identification number (Kemler code): Warning: Corrosive substances.

· EMS Number: 80

F-A,S-B

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· Segregation groups	(SGG18) Alkalis
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAAMINE FRACTION, N-AMINOETHYLPIPERAZINE), 8, II

**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.

· 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.

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· 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 177.0 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 Sheets 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: 23.01.2023· Version number of previous version:

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· 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)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 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  
 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  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 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  
 Repr. 2: Reproductive toxicity – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – 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

EU