

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.03.2021

Version number 20

Revision: 09.03.2021

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

### 1.1 Product identifier

- Trade name: **Akepox 2030 Component B**
- Article number: 10601, 10614, 10602, 10566, 10612, 10605, 10613, 10565, 10563, 10600, 10603, 10564, 10604, 10649
- UFI: TPF1-E0Y8-800M-R8GF

### 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

Epoxy resin adhesive

### 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.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

- Acute Tox. 4      H332 Harmful if inhaled.
- Skin Corr. 1B    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.
- Muta. 2          H341 Suspected of causing genetic defects.
- 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:

formaldehyde polymer with 1,3-benzenedimethanamine and phenol  
m-phenylenebis(methylamine)  
phenol  
Benzyl alcohol  
N-(3-(trimethoxysilyl)propyl)ethylenediamine

### Hazard statements

H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.

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|                                 |  |
|---------------------------------|--|
| <u>Precautionary statements</u> | <p>H317 May cause an allergic skin reaction.<br/> H341 Suspected of causing genetic defects.<br/> H412 Harmful to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.<br/> P102 Keep out of reach of children.<br/> P103 Read carefully and follow all instructions.<br/> P260 Do not breathe vapours.<br/> P273 Avoid release to the environment.<br/> P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br/> P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].<br/> P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br/> P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P310 Immediately call a POISON CENTER/doctor.<br/> P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br/> P405 Store locked up.<br/> P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> |
|---------------------------------|--|

**2.3 Other hazards**

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

vPvB:

1760-24-3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine

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

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

Dangerous components:

|  |  |          |
|--|--|----------|
| CAS: 1950616-36-0<br>EC number: 701-207-5<br>Reg.nr.: 01-2119966906-20                             | formaldehyde polymer with 1,3-benzenedimethanamine and phenol<br>Skin Corr. 1B, H314; Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                    | 25-50%   |
| CAS: 1477-55-0<br>EINECS: 216-032-5<br>Reg.nr.: 01-2119480150-50-xxxx                              | m-phenylenebis(methylamine)<br>Skin Corr. 1B, H314<br>Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                                | 12.5-25% |
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Index number: 603-057-00-5<br>Reg.nr.: 01-2119492630-38-0000 | Benzyl alcohol<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319   | <12.5%   |
| CAS: 108-95-2<br>EINECS: 203-632-7<br>Index number: 604-001-00-2<br>Reg.nr.: 01-2119471329-32      | phenol<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331<br>Muta. 2, H341; STOT RE 2, H373<br>Skin Corr. 1B, H314; Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 | 1-5%     |
| CAS: 1760-24-3<br>EINECS: 217-164-6<br>Reg.nr.: 01-2119970215-39                                   | N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>STOT RE 2, H373<br>Eye Dam. 1, H318<br>Acute Tox. 4, H332; Skin Sens. 1, H317<br>vPvB                                      | 1-5%     |

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· 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.
- Information for doctor: The symptoms of phenol based poisoning appearances are white coloured mouth scabs, shock condition, insensibility, bradycardia and renal dysfunction and damage of renal tissue. Appropriate therapy measures: Administration of an adequate volume of liquid, gastrolavage in application of carbo medicinalis, sodium sulphate with plenty of water, infusion of glucose solution (5%); maesures against state of shock, hemodialysis.

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

Headache  
Dizziness  
Dizziness  
Nausea  
Allergic reactions

#### · 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

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 (NOx)

#### · 5.3 Advice for firefighters

- Protective equipment: Wear fully protective suit. Wear self-contained respiratory protective device. Mount respiratory protective device.
- 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

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

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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.

· **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:**

No special requirements.

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

Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

· **Storage class:**

8 A

· **7.3 Specific end use(s)**

No further relevant information available.

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

· **8.1 Control parameters**

· **Additional information about design of technical facilities:**

No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

**108-95-2 phenol**

|     |  |
|-----|--|
| WEL | Short-term value: 16 mg/m <sup>3</sup> , 4 ppm |
|     | Long-term value: 7.8 mg/m <sup>3</sup> , 2 ppm |
| Sk  |  |

· **DNELs**

**1950616-36-0 formaldehyde polymer with 1,3-benzenedimethanamine and phenol**

|            |                             |                                   |
|------------|-----------------------------|-----------------------------------|
| Oral       | DNEL (Kurzzeit-akut)        | 3.33 mg/kg bw/day (BEV)           |
|            | DNEL (Langzeit-wiederholt)  | 3.33 mg/kg bw/day (BEV)           |
| Dermal     | DNEL (Kurzzeit-akut)        | 0.00385-2.8 mg/kg bw/day (ARB)    |
|            |                             | 0.000167-0.008 mg/kg bw/day (BEV) |
|            | DNEL ( Langzeit-wiederholt) | 0.000385-0.28 mg/kg bw/day (ARB)  |
| Inhalative |                             | 0.000167-0.008 mg/kg bw/day (BEV) |
|            | DNEL (Kurzzeit-akut)        | 2-6 mg/m <sup>3</sup> Air (ARB)   |
|            | DNEL (Langzeit-wiederholt)  | 0.02 mg/m <sup>3</sup> Air (ARB)  |

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

|        |                             |                         |
|--------|-----------------------------|-------------------------|
| Dermal | DNEL ( Langzeit-wiederholt) | 0.33 mg/kg bw/day (ARB) |
|--------|-----------------------------|-------------------------|

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|   |                               |                                   |
|---|-------------------------------|-----------------------------------|
| Inhalative  | DNEL (Langzeit-wiederholt)    | 1.2 mg/m <sup>3</sup> Air (ARB)   |
| <b>100-51-6 Benzyl alcohol</b>  |                               |                                   |
| Oral  | DNEL (Kurzzeit-akut)          | 25 mg/kg bw/day (BEV)             |
|   | DNEL (Langzeit-wiederholt)    | 5 mg/kg bw/day (BEV)              |
| Dermal  | DNEL (Kurzzeit-akut)          | 47 mg/kg bw/day (ARB)             |
|   |                               | 28.5 mg/kg bw/day (BEV)           |
|   | DNEL ( Langzeit-wiederholt)   | 9.5 mg/kg bw/day (ARB)            |
|   |                               | 5.7 mg/kg bw/day (BEV)            |
| Inhalative  | DNEL (Kurzzeit-akut)          | 450 mg/m <sup>3</sup> Air (ARB)   |
|   |                               | 40.55 mg/m <sup>3</sup> Air (BEV) |
|   | DNEL (Langzeit-wiederholt)    | 90 mg/m <sup>3</sup> Air (ARB)    |
|   |                               | 8.11 mg/m <sup>3</sup> Air (BEV)  |
| <b>108-95-2 phenol</b>  |                               |                                   |
| Oral  | DNEL (Langzeit-wiederholt)    | 0.4 mg/kg bw/day (BEV)            |
| Dermal  | DNEL ( Langzeit-wiederholt)   | 0.4 mg/kg bw/day (BEV)            |
| Inhalative  | DNEL (Langzeit-wiederholt)    | 8 mg/m <sup>3</sup> Air (ARB)     |
|   |                               | 1.32 mg/m <sup>3</sup> Air (BEV)  |
| <b>1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine</b>                     |                               |                                   |
| Oral  | DNEL (Langzeit-wiederholt)    | 2.5 mg/kg bw/day (BEV)            |
| Dermal  | DNEL (Kurzzeit-akut)          | 5 mg/kg bw/day (ARB)              |
|   |                               | 17 mg/kg bw/day (BEV)             |
|   | DNEL ( Langzeit-wiederholt)   | 5 mg/kg bw/day (ARB)              |
|   |                               | 2.5 mg/kg bw/day (BEV)            |
| Inhalative  | DNEL (Langzeit-wiederholt)    | 35.3 mg/m <sup>3</sup> Air (ARB)  |
|   |                               | 8.7 mg/m <sup>3</sup> Air (BEV)   |
| · PNECs   |                               |                                   |
| <b>1950616-36-0 formaldehyde polymer with 1,3-benzenedimethanamine and phenol</b> |                               |                                   |
| PNEC (wässrig)  | 30 mg/l (KA)                  |                                   |
|   | 0.002 mg/l (MW)               |                                   |
|   | 0.02 mg/l (SW)                |                                   |
| PNEC (fest)   | 0.0236 mg/kg Trockengew (BO)  |                                   |
|   | 0.01 mg/kg Trockengew (MWS)   |                                   |
|   | 0.1001 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)   | 0.045 mg/kg Trockengew (BO)   |                                   |
|   | 0.043 mg/kg Trockengew (MWS)  |                                   |
|   | 0.43 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)                |                                   |

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|   |  |
|---|--|
| PNEC (fest)   | 0.456 mg/kg Trockengew (BO)<br>0.527 mg/kg Trockengew (MWS)<br>5.27 mg/kg Trockengew (SWS)     |
| <b>108-95-2 phenol</b>  |  |
| PNEC (wässrig)  | 2.1 mg/l (KA)<br>0.00077 mg/l (MW)<br>0.0077 mg/l (SW)   |
| PNEC (fest)   | 0.136 mg/kg Trockengew (BO)<br>0.00915 mg/kg Trockengew (MWS)<br>0.0915 mg/kg Trockengew (SWS) |
| <b>1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> |  |
| PNEC (wässrig)  | 25 mg/l (KA)<br>0.0062 mg/l (MW)<br>0.062 mg/l (SW)<br>0.62 mg/l (WAS)                         |
| PNEC (fest)   | 0.0075 mg/kg Trockengew (BO)<br>0.005 mg/kg Trockengew (MWS)<br>0.05 mg/kg Trockengew (SWS)    |

· 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.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:  
Filter A/P2  
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.

· 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  
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

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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>).

· 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 materialValue 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

Dermatril (Art\_No. 740, 741, 742)

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

Chloroprene rubber, CR

Camapren (KCL, Art\_No. 720, 722, 726)

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

Butyl rubber, BR

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

· Eye 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· Appearance:

Form: Pasty

Colour: Grey

· Odour: Characteristic· pH-value: Not applicable· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 205 °C

· Flash point: 101 °C

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|  |   |
|--|---|
| · <u>Ignition temperature:</u>                   | 435 °C  |
| · <u>Auto-ignition temperature:</u>              | Product is not selfigniting.                  |
| · <u>Explosive properties:</u>                   | Product does not present an explosion hazard. |
| · <u>Explosion limits:</u>                       |   |
| <u>Lower:</u>                                    | 1.3 Vol %                                     |
| <u>Upper:</u>                                    | 13 Vol %                                      |
| · <u>Vapour pressure at 20 °C:</u>               | 0.1 hPa                                       |
| · <u>Density at 20 °C:</u>                       | 1.5 g/cm <sup>3</sup>                         |
| · <u>Solubility in / Miscibility with water:</u> | Not miscible or difficult to mix.             |
| · <u>Viscosity:</u>                              |   |
| <u>Dynamic at 20 °C:</u>                         | 80,000 mPas                                   |
| <u>Kinematic:</u>                                | Not determined.                               |
| · <u>Solvent content:</u>                        |   |
| <u>Organic solvents:</u>                         | 12.0 %  |
| <u>Solids content:</u>                           | 56.9 %  |
| · <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.
- **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 toxicological effects**
- Acute toxicity Harmful if inhaled.

· LD/LC50 values relevant for classification:**ATE (Acute Toxicity Estimates)**

|            |          |                 |
|------------|----------|-----------------|
| Oral       | LD50     | <3,779 mg/kg    |
| Dermal     | LD50     | 9,895 mg/kg     |
| Inhalative | LC50/4 h | 13.6 mg/l (rat) |

**1950616-36-0 formaldehyde polymer with 1,3-benzenedimethanamine and phenol**

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,020 mg/kg (rat) |

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

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | <2,000 mg/kg (rat)   |
|        | NOEL | 150 mg/kg (rat)      |
| Dermal | LD50 | 3,100 mg/kg (rabbit) |

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|   |                   |  |                             |
|---|-------------------|--|-----------------------------|
| Inhalative  | LC50/4 h          | 2.4 mg/l (rat)                             |                             |
|   | LC50/1h           | 3.89 mg/l (rat)                            |                             |
| <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                                       | 400 mg/kg (rat)             |
| NOAEL   | 200 mg/kg (mouse) |  |                             |
|   | 400 mg/kg (rat)   |  |                             |
| Dermal  | LD50              | 2,000 mg/kg (rabbit)                       |                             |
| Inhalative  | LC50/8h           | 1,000 ppm (rat)                            |                             |
|   | LC50/4 h          | 11 mg/l (rat)                              |                             |
|   | LC50/48h          | 360 mg/l (daphnia magna)<br>645 mg/l (goo) |                             |
| <b>108-95-2 phenol</b>  |                   |  |                             |
| Oral  | LD50              | 300 mg/kg (mouse)                          |                             |
|   |                   | 317 mg/kg (rat)                            |                             |
| Dermal  | LD50              | 630 mg/kg (rat)                            |                             |
| Inhalative  | LC50/4 h          | 316 mg/l (rat)                             |                             |
|   | LC50/8h           | 0.9 mg/l (rat)                             |                             |
| <b>1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> |                   |  |                             |
| Oral  | LD50              | 2,995 mg/kg (rat)                          |                             |
|   |                   | NOEL                                       | ≥500 mg/kg (rat) (OECD 422) |
|   |                   | NOAEL                                      | ≥500 mg/kg (rat)            |
| Dermal  | LD50              | >2,000 mg/kg (rat)                         |                             |
| Inhalative  | LC50/4 h          | 1.49 mg/l (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.

· Additional toxicological information:

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- 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.

**SECTION 12: Ecological information**· **12.1 Toxicity**· Aquatic toxicity:**1950616-36-0 formaldehyde polymer with 1,3-benzenedimethanamine and phenol**

|          |   |
|----------|---|
| EC50     | 491.3 mg/l (BES)                            |
| EC50/48h | 29.8 mg/l (daphnia magna)                   |
| EC50/72h | 20.4 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h | 25.9 mg/l (Oncorhynchus mykiss)             |

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

|            |  |
|------------|--|
| EC50/48h   | 15.2 mg/l (daphnia magna)  |
| EC50/30min | >1,000 mg/l (BES)  |
| NOEC/21d   | 4.7 mg/l (daphnia magna)   |
| EC50/72h   | 12 mg/l (Scenedesmus subspicatus)<br>32.1 mg/l (senastrum capricornutum)                 |
| LC50/96h   | >100 mg/l (Oncorhynchus mykiss)<br>87.6 mg/l (Oryzias latipes)<br>>100 mg/l (Zebrafisch) |

**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)<br>79 mg/l (Scenedesmus quadricauda)                  |
| EC10/16h   | 658 mg/l (pseudomonas putida)   |
| EC50/48h   | 230 mg/l (daphnia magna) (OECD 202)   |
| EC0        | 640 mg/l (Scenedesmus quadricauda)  |
| EC50/16h   | 658 mg/l (pseudomonas putida)   |
| EC50/30min | 71.4 mg/l (Photobac. phosphoreum)<br>400 mg/l (pseudomonas putida)                |
| IC5/96h    | 640 mg/l (Scenedesmus quadricauda)  |
| NOEC       | 310 mg/kg (Pseudokirchneriella subcapitata)                                       |
| NOEC/21d   | 51 mg/l (daphnia magna) (OECD211)   |
| EC50/72h   | 770 mg/l (green alge) (OECD 201)<br>770 mg/l (Pseudokirchneriella subcapitata)    |
| LC50/96h   | 645 mg/l (goo)<br>10 mg/l (lepomis macrochirus)<br>460 mg/l (Pimephales promelas) |

**108-95-2 phenol**

|          |                                |
|----------|--------------------------------|
| EC50/24h | 21 mg/l (BO)                   |
| EC50/96h | 61.1 mg/l (green alge)         |
| EC50/48h | 3.1 mg/l (daphnia magna)       |
| LC50/96h | 8.9 mg/l (Oncorhynchus mykiss) |

**1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine**

|          |  |
|----------|--|
| EC50     | 435 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)  |
| IC50/72h | 8.8 mg/l (green alge) (OECD 201)   |
| EC50/48h | 81 mg/l (daphnia magna)  |
| EC50/16h | 67 mg/l (pseudomonas putida)   |
| NOEC     | 3.1 mg/kg (green alge) (OECD 201)<br>≥1,000 mg/kg (Eisenia fetida ( Regenwürmer)) (OECD 207) |
| NOEC/21d | >1 mg/l (daphnia magna)  |
| EC50/48h | 87.4 mg/l (daphnia magna)  |
| EC50/72h | 5 mg/l (green alge)<br>126 mg/l (Scenedesmus subspicatus)                                    |
| LC50/96h | 344 mg/l (Brachydanio rerio)<br>597 mg/l (Danio rerio.)<br>168 mg/l (pimephales promelas)    |

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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.
- Additional ecological information:
- General notes: Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB:
- 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine
- **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.
- Uncleaned packaging:
- Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA UN2735
- **14.2 UN proper shipping name**
- ADR 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(formaldehyde polymer with 1,3-benzenedimethanamine and phenol, m-phenylenebis(methylamine))
- IMDG, IATA POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(formaldehyde polymer with 1,3-benzenedimethanamine and phenol, m-phenylenebis(methylamine))
- **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 III

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**· 14.5 Environmental hazards:**· Marine pollutant: No**· 14.6 Special precautions for user**

· Hazard identification number (Kemler code): Warning: Corrosive substances.  
80

· EMS Number: F-A,S-B

· Segregation groups Alkalis

· Stowage Category A

· Segregation Code SG35 Stow "separated from" SGG1-acids

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

Not applicable.

· Transport/Additional information:· ADR

· Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (FORMALDEHYDE POLYMER WITH 1,3-BENZENEDIMETHANAMINE AND PHENOL, M-PHENYLENEBIS(METHYLAMINE)), 8, 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.

· 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.

· VOC EU

181.0 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.

· Relevant phrases

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

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· Recommended restriction of use

· Department issuing SDS:

· Contact:

· Abbreviations and acronyms:

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

refer to Technical Data Sheet (TDS)

Laboratory

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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

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – 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

· \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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