Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ceramic-Polymer XRC Part A

Print date: 13.09.2017

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

1.1. Product identifier
Ceramic-Polymer XRC Part A

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

Use of the substance/mixture
Coatings and paints, fillers, putties, thinners

Uses advised against
No information available.

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company name:</th>
<th>Ceramic Polymer GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street:</td>
<td>Daimlerstr. 9</td>
</tr>
<tr>
<td>Place:</td>
<td>DE-32289 Rödinghausen</td>
</tr>
<tr>
<td>Telephone:</td>
<td>+49(0) 52 23 / 9 62 76-0</td>
</tr>
<tr>
<td>e-mail:</td>
<td><a href="mailto:info@ceramic-polymer.de">info@ceramic-polymer.de</a></td>
</tr>
<tr>
<td>Internet:</td>
<td><a href="http://www.ceramic-polymer.de">www.ceramic-polymer.de</a></td>
</tr>
<tr>
<td>Responsible Department:</td>
<td><a href="mailto:info@ceramic-polymer.de">info@ceramic-polymer.de</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number:
+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Skin corrosion/irritation: Skin Corr. 1C
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1
Reproductive toxicity: Repr. 1B
Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May damage fertility.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane
Phenol, polymer with formaldehyde, glycidether

Signal word: Danger

Pictograms:

Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
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H360F  May damage fertility.
H411  Toxic to aquatic life with long lasting effects.

Precautionary statements

P260  Do not breathe dust/fume/gas/mist/vapours/spray.
P309+P311  IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P333+P313  If skin irritation or rash occurs: Get medical advice/attention.
P337+P313  If eye irritation persists: Get medical advice/attention.
P304+P340  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P362+P364  Take off contaminated clothing and wash it before reuse.
P273  Avoid release to the environment.
P270  Do not eat, drink or smoke when using this product.
P403+P235  Store in a well-ventilated place. Keep cool.

Special labelling of certain mixtures

EUH205  Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>500-006-8</td>
<td>01-2119454392-40</td>
<td></td>
<td>25-30 %</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxyproproxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-(2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td></td>
<td></td>
<td></td>
<td>25-30 %</td>
</tr>
<tr>
<td>28064-14-4</td>
<td>Phenol, polymer with formaldehyde, glycidether</td>
<td></td>
<td></td>
<td></td>
<td>15-20 %</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td>201-159-0</td>
<td>606-002-00-3</td>
<td>01-2119457290-43</td>
<td>1-5 %</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.
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After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.
Do not wash with: Solvents/Thinner

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3. Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.
After contact with skin, wash immediately with plenty of Lutrol.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media
High power water jet

5.2. Special hazards arising from the substance or mixture
Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

5.3. Advice for firefighters
Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.
Co-ordinate fire-fighting measures to the fire surroundings.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8
Remove persons to safety.

6.2. Environmental precautions
Do notallow to enter into surface water or drains. Cover drains. Adverse environmental effects

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
See protective measures under point 7 and 8.
Disposal: see section 13

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

Advice on safe handling
See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Advice on storage compatibility
Keep away from:
Food and feedingstuffs
Oxidising agent

Further information on storage conditions
Keep away from:
Frost
Heat
Humidity

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>Butan-2-one (methyl ethyl ketone)</td>
<td>200</td>
<td>600</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300</td>
<td>898</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Biological Monitoring Guidance Values (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Parameter</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>Butan-2-one</td>
<td>butan-2-one</td>
<td>70 µmol/L</td>
<td>urine</td>
<td>Post shift</td>
</tr>
</tbody>
</table>
## DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>29.39 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>104.15 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, acute</td>
<td>dermal</td>
<td>local</td>
<td>0.0083 mg/cm²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>8.7 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>62.5 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>6.25 mg/kg bw/day</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2- ((2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>1.17 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>0.67 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>31 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>412 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>106 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>1161 mg/kg bw/day</td>
</tr>
</tbody>
</table>
### PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td></td>
<td>0,003 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater</td>
<td></td>
<td>0,294 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Freshwater sediment</td>
<td></td>
<td>0,029 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td></td>
<td>0,237 mg/kg</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td></td>
<td>0,004 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater</td>
<td></td>
<td>0,037 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td></td>
<td>0,02 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td></td>
<td>0,002 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td></td>
<td>0,002 mg/kg</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td></td>
<td>55,8 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater</td>
<td></td>
<td>55,8 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td></td>
<td>284,7 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Freshwater sediment</td>
<td></td>
<td>284,7 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td></td>
<td>1000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Secondary poisoning</td>
<td></td>
<td>22,5 mg/kg</td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

**Appropriate engineering controls**
- Provide adequate ventilation as well as local exhaustion at critical locations.

**Protective and hygiene measures**
- Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

**Eye/face protection**
- Suitable eye protection:
- Eye glasses with side protection goggles

**Hand protection**
- Suitable gloves type:
  - NBR (Nitrile rubber) DIN EN 374,
  - Butyl caoutchouc (butyl rubber) DIN EN 374
- Wear cotton undermitten if possible.

**Skin protection**
- Protective clothing

**Respiratory protection**
- If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
- Combination filtering device (EN 14387) A-P3
- Self-contained respirator (breathing apparatus) (DIN EN 133)
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

**Test method**

- pH-Value: not determined

**Changes in the physical state**

- Melting point: not determined
- Initial boiling point and boiling range: not determined
- Sublimation point: not determined
- Softening point: not determined
- Pour point: not determined
- Flash point: > 100 °C

**Flammability**

- Solid: not determined
- Gas: not determined

**Explosive properties**

- No information available.
  - Lower explosion limits: not determined
  - Upper explosion limits: not determined
  - Ignition temperature: not determined

**Auto-ignition temperature**

- Solid: not determined
- Gas: not determined
- Decomposition temperature: not determined

**Oxidizing properties**

- No information available.
  - Vapour pressure: not determined
  - Density (at 20 °C): ~1.3 g/cm³
  - Water solubility: not determined

**Solubility in other solvents**

- No information available.
  - Partition coefficient: not determined
  - Viscosity / dynamic: not determined
  - Vapour density: not determined
  - Evaporation rate: not determined

9.2. Other information

- No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

- The product is stable under storage at normal ambient temperatures.
10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Acid, Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td></td>
<td></td>
<td>Study report (1988)</td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>30499-70-8</td>
<td>Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane</td>
<td></td>
<td></td>
<td>Study report (1988)</td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>3398 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 3170 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td></td>
<td></td>
<td>OECD Guideline 401</td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>3300 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>6400 - 8000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>34.5 mg/l</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane; Phenol, polymer with formaldehyde, glycidether)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. (Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.
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Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt; 1000 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
</tr>
<tr>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 1,8 mg/l</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>Study report (1993)</td>
</tr>
<tr>
<td></td>
<td>Acute crustacean toxicity</td>
<td>EC50</td>
<td>&gt; 1000 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>Study report (1998)</td>
</tr>
<tr>
<td></td>
<td>Crustacean toxicity</td>
<td>NOEC</td>
<td>0.3 mg/l</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td>Study report (1984)</td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>2993 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas</td>
</tr>
<tr>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>2029 mg/l</td>
<td>96 h</td>
<td>Selenastrum capricornutum</td>
<td>OECD Guideline 201</td>
</tr>
<tr>
<td></td>
<td>Acute crustacean toxicity</td>
<td>EC50</td>
<td>308 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD Guideline 202</td>
</tr>
<tr>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(1150 mg/l)</td>
<td>Pseudomonas putida</td>
<td>Supplier</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>2.7</td>
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</table>

BCF

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
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<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>150</td>
<td>Other company data</td>
<td></td>
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</tbody>
</table>

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Dispose of waste according to applicable legislation.

Contaminated packaging
Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)
# Safety Data Sheet

according to Regulation (EC) No 1907/2006

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Classification code:</td>
<td>C9</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
<tr>
<td>Transport category:</td>
<td>3</td>
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<tr>
<td>Hazard No:</td>
<td>80</td>
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<tr>
<td>Tunnel restriction code:</td>
<td>E</td>
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</table>

### Inland waterways transport (ADN)

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Classification code:</td>
<td>C9</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
</tbody>
</table>

### Marine transport (IMDG)

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>p</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>223, 274</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-A, S-B</td>
</tr>
</tbody>
</table>

### Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th><strong>14.1. UN number:</strong></th>
<th>UN 1760</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2. UN proper shipping name:</strong></td>
<td>CORROSIVE LIQUID, N.O.S. (epoxy resin)</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>14.4. Packing group:</strong></td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>A3 A803</td>
</tr>
<tr>
<td>Limited quantity Passenger:</td>
<td>1 L</td>
</tr>
<tr>
<td>Passenger LO:</td>
<td>Y841</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
</tbody>
</table>

| IATA-packing instructions - Passenger: | 852 |
| IATA-max. quantity - Passenger: | 5 L |
| IATA-packing instructions - Cargo: | 856 |
| IATA-max. quantity - Cargo: | 60 L |

**14.5. Environmental hazards**

| ENVIRONMENTALLY HAZARDOUS: | yes |
Safety Data Sheet

Ceramic-Polymer XRC Part A

Print date: 13.09.2017

Danger releasing substance: epoxy resin

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No information available.

SECTION 15: Regulatory information

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

EU regulatory information
Information according to 2012/18/EU (SEVESO III):
E2 Hazardous to the Aquatic Environment

National regulatory information
Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment
For the following substances of this mixture a chemical safety assessment has been carried out:
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane

SECTION 16: Other information

Changes
This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures, LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PTB: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)
H225 Highly flammable liquid and vapour.
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ceramic-Polymer XRC Part A

Print date: 13.09.2017

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H360F</td>
<td>May damage fertility.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
<tr>
<td>EUH205</td>
<td>Contains epoxy constituents. May produce an allergic reaction.</td>
</tr>
</tbody>
</table>

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)