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

1.1. Product identifier
Ceramic-Polymer STP-EP2 (AWWA) Part B

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

1.3. Details of the supplier of the safety data sheet

Company name: Ceramic Polymer GmbH
Street: Daimlerring 9
Place: DE-32289 Rödinghausen
Telephone: +49(0) 52 23 / 9 62 76-0
Fax: +49(0) 52 23 / 9 62 76-17
Email: info@ceramic-polymer.de
Internet: www.ceramic-polymer.de
Responsible Department: +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

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:
Flammable liquid: Flam. Liq. 3
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1A
Hazardous to the aquatic environment: Aquatic Acute 1
Hazardous to the aquatic environment: Aquatic Chronic 1
Hazard Statements:
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and
triethylenetetramine
m-phenylenebis(methylamine)
3-aminopropyldimethylamine
Phenol, styrenated

Signal word: Danger

Pictograms:

Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H410 Very 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 skin irritation or rash occurs: Get medical advice/attention.
- **P362+P364** Take off contaminated clothing and wash it before reuse.
- **P280** Wear protective gloves/protective clothing/eye protection/face protection.
- **P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **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.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>H and EUH statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>186321-96-0</td>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>25-&lt;50 %</td>
<td></td>
<td>01-2119983521-35</td>
<td></td>
<td>Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H315 H318 H317 H400 H410</td>
<td></td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>10-&lt;25 %</td>
<td>202-859-9</td>
<td>603-057-00-5</td>
<td>01-2119492630-38</td>
<td>Acute Tox. 4, Acute Tox. 4; H302 H332</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenesbis(methylamine)</td>
<td>5-&lt;10 %</td>
<td>216-032-5</td>
<td>01-2119480150-50</td>
<td></td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3; H302 H332 H314 H317 H412 EUH071</td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>5-&lt;10 %</td>
<td>202-013-9</td>
<td>603-069-00-0</td>
<td>01-2119560597-27</td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319</td>
<td></td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>1-&lt;5 %</td>
<td>262-975-0</td>
<td>01-2119979575-18</td>
<td></td>
<td>Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411</td>
<td></td>
</tr>
<tr>
<td>109-55-7</td>
<td>3-aminopropanydimethylamine</td>
<td>1-&lt;5 %</td>
<td>203-680-9</td>
<td>612-061-00-6</td>
<td>01-2119486842-27</td>
<td>Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H302 H312 H314 H317</td>
<td></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
Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ceramic-Polymer STP-EP2 (AWWA) Part B

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.

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.

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 not allow 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
<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>186321-96-0</td>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>Worker DNEL, long-term</td>
<td>inhalation systemic</td>
<td>23,5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal systemic</td>
<td>3,33 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation systemic</td>
<td>5,8 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal systemic</td>
<td>1,67 mg/kg bw/day</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzy alcohol</td>
<td>Worker DNEL, long-term</td>
<td>inhalation systemic</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, acute</td>
<td>inhalation systemic</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal systemic</td>
<td>8 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, acute</td>
<td>dermal systemic</td>
<td>40 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation systemic</td>
<td>5,4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, acute</td>
<td>inhalation systemic</td>
<td>27 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal systemic</td>
<td>4 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, acute</td>
<td>dermal systemic</td>
<td>20 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral systemic</td>
<td>4 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, acute</td>
<td>oral systemic</td>
<td>20 mg/kg bw/day</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>Worker DNEL, long-term</td>
<td>dermal systemic</td>
<td>0,33 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation local</td>
<td>0,2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>inhalation systemic</td>
<td>1,2 mg/m³</td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>Worker DNEL, long-term</td>
<td>inhalation systemic</td>
<td>4,11 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal systemic</td>
<td>2,92 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation systemic</td>
<td>1,01 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal systemic</td>
<td>1,46 mg/kg bw/day</td>
</tr>
<tr>
<td>109-55-7</td>
<td>3-aminopropyl(dimeth)amine</td>
<td>Worker DNEL, long-term</td>
<td>inhalation systemic</td>
<td>4,9 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, acute</td>
<td>inhalation systemic</td>
<td>9,8 mg/m³</td>
</tr>
</tbody>
</table>
### PNEC values

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td></td>
</tr>
<tr>
<td>186321-96-0</td>
<td></td>
</tr>
<tr>
<td>186321-96-0, Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>0.000186 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.000019 mg/l</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>0.005 mg/kg</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>0.0005 mg/kg</td>
</tr>
<tr>
<td>Soil</td>
<td>0.00089 mg/kg</td>
</tr>
<tr>
<td>100-51-6 benzyl alcohol</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>0.1 mg/l</td>
</tr>
<tr>
<td>Freshwater</td>
<td>1 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.009 mg/l</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>0.527 mg/kg</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>0.43 mg/kg</td>
</tr>
<tr>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>39 mg/l</td>
</tr>
<tr>
<td>Soil</td>
<td>0.456 mg/kg</td>
</tr>
<tr>
<td>1477-55-0 m-phenylenebis(methylamine)</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>0.009 mg/l</td>
</tr>
<tr>
<td>Freshwater</td>
<td>0.094 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.009 mg/l</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>0.527 mg/kg</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>0.043 mg/kg</td>
</tr>
<tr>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>39 mg/l</td>
</tr>
<tr>
<td>Soil</td>
<td>0.045 mg/kg</td>
</tr>
<tr>
<td>90-72-2 2,4,6-tris(dimethylaminomethyl)phenol</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>0.008 mg/l</td>
</tr>
<tr>
<td>Freshwater</td>
<td>0.84 mg/l</td>
</tr>
<tr>
<td>61788-44-1 Phenol, styrenated</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>0.0115 mg/l</td>
</tr>
<tr>
<td>Freshwater</td>
<td>0.00115 mg/l</td>
</tr>
<tr>
<td>109-55-7 3-aminopropyl(dimethyl)amine</td>
<td></td>
</tr>
<tr>
<td>Marine water</td>
<td>0.022 mg/kg</td>
</tr>
<tr>
<td>Freshwater</td>
<td>0.034 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.024 mg/kg</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>0.216 mg/kg</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>0.003 mg/l</td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust 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>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Changes in the physical state**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
</tr>
<tr>
<td>Softening point</td>
<td>not determined</td>
</tr>
<tr>
<td>Pour point</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;95 °C</td>
</tr>
</tbody>
</table>

**Flammability**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Explosive properties**
No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Auto-ignition temperature**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Decomposition temperature**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>not determined</td>
<td></td>
</tr>
</tbody>
</table>

**Oxidizing properties**
No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Density (at 23 °C)</td>
<td>~1.3 g/cm³</td>
</tr>
</tbody>
</table>
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
   Reacts 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
   Thermal decomposition
   Hazardous decomposition products: Gases

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>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>186321-96-0</td>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>oral</td>
<td>LD50</td>
<td>1620 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;4178 mg/l</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>oral</td>
<td>LD50</td>
<td>1180 mg/kg</td>
<td>Mouse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;3100 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>1,34 mg/l</td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>oral</td>
<td>ATE</td>
<td>500 mg/kg</td>
<td></td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;2500 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>109-55-7</td>
<td>3-aminopropyldimethylamine</td>
<td>oral</td>
<td>LD50</td>
<td>1870 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes severe skin burns and eye damage.

Sensitising effects
May cause an allergic skin reaction.

Carcinogenic/mutagenic/toxic effects for reproduction
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
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A</td>
<td>95 - 97%</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C</td>
<td>49 %</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

#### 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>100-51-6</td>
<td>benzyl alcohol</td>
<td>1,1</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>0,18</td>
</tr>
</tbody>
</table>

#### BCF

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>&lt;0,3</td>
<td></td>
<td></td>
</tr>
</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)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine); Phenol, styrenated)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine); Phenol, styrenated)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine); Phenol, styrenated)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Marine pollutant: pp
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine); Phenol, styrenated)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
**Ceramic-Polymer STP-EP2 (AWWA) Part B**

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**Special Provisions:**

- **A3 A803**
- **Limited quantity Passenger:** 0.5 L
- **Passenger LQ:** Y840
- **Excepted quantity:** E2
- **IATA-packing instructions - Passenger:** 851
- **IATA-max. quantity - Passenger:** 1 L
- **IATA-packing instructions - Cargo:** 855
- **IATA-max. quantity - Cargo:** 30 L

**14.5. Environmental hazards**

- **ENVIRONMENTALLY HAZARDOUS:** yes
- **Danger releasing substance:** Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine

**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.

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**SECTION 15: Regulatory information**

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

**National regulatory information**

**Employment restrictions:**

Observe restrictions to employment for juvenils 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:

- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine
- Benzyl alcohol
- m-phenylenebis(methylamine)
- 2,4,6-tris(dimethylaminomethyl)phenol
- Phenol, styrenated
- 3-aminopropyl(dimethylamine)

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**SECTION 16: Other information**

**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 Regulations 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

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LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

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.)