1. Identification

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

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

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

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
e-mail: info@ceramic-polymer.de
Internet: www.ceramic-polymer.de
Responsible Department: info@ceramic-polymer.de

Emergency telephone number:
24 hours per day, 7 days per week Call
Infotrac: 1-800-535-5053 Outside N.
America: +1 352-323-500 (collect)

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015
Hazard categories:
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Corr. 1
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1

Hazard Statements:
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.

Label elements

WHMIS 2015
Signal word: Danger

Pictograms:

Hazard statements
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Safety Data Sheet
according to WHMIS

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of waste according to applicable legislation.

Other hazards
No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</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 triethyleneetramine</td>
<td>40 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>12.5 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methyamine)</td>
<td>8 %</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>8 %</td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>4 %</td>
</tr>
<tr>
<td>109-55-7</td>
<td>3-aminopropyl(dimethylamine)</td>
<td>4 %</td>
</tr>
</tbody>
</table>

4. First-aid measures

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.

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.

Most important symptoms and effects, whether acute or delayed
No information available.

Indication of immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.
After contact with skin, wash immediately with plenty of Lutrol.
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.
5. Fire-fighting measures

**Extinguishing media**

- **Suitable extinguishing media**
  - Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet
- **Unsuitable extinguishing media**
  - High power water jet

**Specific hazards arising from the hazardous product**
- Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

**Special protective equipment and precautions for fire-fighters**
- 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.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
- Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes.
- Do not breathe dust/fume/gas/mist/vapours/spray. Remove persons to safety.

**Environmental precautions**
- Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

**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.

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

7. Handling and storage

**Precautions for safe handling**

- **Advice on safe handling**
  - Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes.
  - Do not breathe dust/fume/gas/mist/vapours/spray. 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.

**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**
  - Do not store together with:
    - Food and feedingstuffs
    - Oxidising agent

- **Further information on storage conditions**
  - Protect against:
    - Frost
    - Heat
    - Humidity

8. Exposure controls/Personal protection
Safety Data Sheet

according to WHMIS

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Control parameters

Exposure limits (ACGIH)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>ppm</th>
<th>mg/m³</th>
<th>F/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1477-55-0</td>
<td>m-Xylene alpha, alpha'-diamine</td>
<td></td>
<td></td>
<td>0.1</td>
<td>TWA (8 h)</td>
<td>ACGIH-2017</td>
</tr>
</tbody>
</table>

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

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Wear cotton undermittens if possible. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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)

Environmental exposure controls

Avoid release to the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless

Odour: characteristic

Test method

pH-Value (at 20 °C): 10

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: not determined

Sublimation point: not determined
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according to WHMIS

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Softening point: not determined
Pour point: not determined
Flash point: > 95 °C

Flammability
Solid: not determined
Gas: not determined

Explosive properties
No information available.

Lower explosive limits: not determined
Upper explosive 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 23 °C): ~1.3 g/cm³
Water solubility: not determined

Solubility in other solvents
No information available.

Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Vapour density: not determined
Evaporation rate: not determined

Other information
Odour threshold: not determined

10. Stability and reactivity

Reactivity
The product is stable under storage at normal ambient temperatures.

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

Possibility of hazardous reactions
Reacts with: Acid, Oxidising agent

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

Incompatible materials
Acid, Oxidising agent

Hazardous decomposition products
Thermal decomposition
Hazardous decomposition products: Gases
# 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

Harmful if swallowed.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Route of exposure</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 &gt;2000 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt;2000 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>oral</td>
<td>LD50 1620 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE  11 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE  1.5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>oral</td>
<td>LD50 1180 mg/kg</td>
<td>Mouse</td>
<td>Manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt;3100 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE  11 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50 1.34 mg/l</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>oral</td>
<td>LD50 &gt;2500 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt;2000 mg/kg</td>
<td>Rat</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>109-55-7</td>
<td>3-aminopropyl(dimethylamine)</td>
<td>oral</td>
<td>LD50 1870 mg/kg</td>
<td>Rat</td>
<td>GESTIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE 1100 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Irritation and corrosivity

Causes severe skin burns and eye damage.

### Sensitizing effects

May cause an allergic skin reaction. (Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine; m-phenylenebis(methylamine); Phenol, styrenated; 3-aminopropyl(dimethylamine)

### 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.

### Name of toxicologically synergistic products

No information available.
12. Ecological information

Ecotoxicity
Very toxic to aquatic life with long lasting effects.

Persistence and degradability
The product has not been tested.

Bioaccumulative potential
The product has not been tested.

Mobility in soil
The product has not been tested.

Other adverse effects
No information available.

13. Disposal considerations

Waste treatment methods

Advice on disposal
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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

14. Transport information

Canadian TDG

UN/ID number: UN 2735

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

Hazard classes: 8

Packing group: II

Hazard label: 8

Limited quantity: 1 L

Marine transport (IMDG)

UN number: UN 2735

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

Transport hazard class(es): 8

Packing group: II

Hazard label: 8

Marine pollutant: pp

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-A, S-B

Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 2735

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

Transport hazard class(es): 8
## Packing group:
II

## Hazard label:
8

## Limited quantity Passenger:
0.5 L

## Passenger LO:
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 |

### Environmental hazards

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

## 15. Regulatory information

### Canadian regulations

#### DSL/NDSL inventory status

**DSL:**
- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine: No
- benzyl alcohol: Yes.
- m-phenylenebis(methylamine): Yes.
- 2,4,6-tris(dimethylaminomethyl)phenol: Yes.
- Phenol, styrenated: No
- 3-aminopropylidimethylamine: Yes.

**NDSL:**
- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine: Yes.
- benzyl alcohol: No
- m-phenylenebis(methylamine): No
- 2,4,6-tris(dimethylaminomethyl)phenol: No
- Phenol, styrenated: No
- 3-aminopropylidimethylamine: No

#### National Pollutant Release Inventory (NPRI)

- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine: No
- benzyl alcohol: No
- m-phenylenebis(methylamine): No
- 2,4,6-tris(dimethylaminomethyl)phenol: No
- Phenol, styrenated: No
- 3-aminopropylidimethylamine: No

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

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.)