Safety Data Sheet

according to 29 CFR 1910.1200(g)

Ceramic-Polymer STP-EP2 (AWWA) Part B

1. Identification

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

Recommended use of the chemical and restrictions on use
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 Roedinghausen - Germany
Telephone: +49(0) 52 23 / 9 62 76-0
Internet: www.ceramic-polymer.de
Responsible Department: info@ceramic-polymer.de

Importer:
A.W. Chesterton Company
860 Salem Street, Groveland MA 01834-1507, USA
Phone 978-469-6446

Emergency phone number: 24 hours per day, 7 days per week Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)

2. Hazard(s) identification

Classification of the chemical
29 CFR Part 1910.1200
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
29 CFR Part 1910.1200
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/vapors/spray.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of waste according to applicable legislation.

Hazards not otherwise classified
No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</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 triethylenetetramine</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(methylamine)</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, both acute and delayed
No information available.

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.
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 chemical**

- 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
Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>f/cc</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-2016</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 undermitten 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

<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>Color</td>
<td>colourless</td>
<td></td>
</tr>
<tr>
<td>Odor</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/freezing point</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>not determined</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>not determined</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

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

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

Possibility of hazardous reactions
Hazardous reactions: May occur
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
## 11. Toxicological information

### Information on toxicological effects

**Route(s) of Entry**
- oral, dermal, Eye contact.

**Acute toxicity**
- Harmful if swallowed

**ATEmix calculated**
- ATE (oral) 1843,8 mg/kg

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</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 &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.

**Specific target organ toxicity (STOT) - single exposure**
- Based on available data, the classification criteria are not met.
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Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met.

Carcinogenicity (NTP): No ingredient of this mixture is listed.
Carcinogenicity (IARC): No ingredient of this mixture is listed.
Carcinogenicity (OSHA): No ingredient of this mixture is listed.

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

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

US DOT 49 CFR 172.101

UN/ID number: UN 2735

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 transport (IMDG)

UN number: UN 2735

UN 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

UN 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 LQ: Y840

Excepted quantity:

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

Special precautions for user

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

U.S. Regulations

National Inventory TSCA

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

National regulatory information

SARA Section 311/312 Hazards:

- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine (186321-96-0): Immediate (acute) health hazard
- Benzyl alcohol (100-51-6): Immediate (acute) health hazard
- m-phenylenebis(methylamine) (1477-55-0): Immediate (acute) health hazard
- 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2): Immediate (acute) health hazard
- Phenol, styrenated (61788-44-1): Immediate (acute) health hazard
- 3-aminopropylidimethylamine (109-55-7): Fire hazard, Immediate (acute) health hazard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information
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according to 29 CFR 1910.1200(g)

Ceramic-Polymer STP-EP2 (AWWA) Part B

Print date: 07/12/2017

Hazardous Materials Information Label (HMIS)

Health: 2
Flammability: 1
Physical Hazard: 0

NFPA Hazard Ratings

Health: 2
Flammability: 1
Reactivity: 0
Unique Hazard: 0

Revision date: 07/11/2017
Revision No: 1,00

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

Other data

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.)