Safety Data Sheet

according to 29 CFR 1910.1200(g)

Ceramic-Polymer STP-ep-hv Part A

Print date: 07/12/2017

1. Identification

Product identifier
Ceramic-Polymer STP-ep-hv Part A

Recommended use of the chemical and restrictions on use

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

Uses advised against
No information available.

Details of the supplier of the safety data sheet

Company name: Ceramic Polymer GmbH
Street: Daimlerling 9
Place: DE-32289 Roedinghausen - Germany
Telephone: +49(0) 52 23 / 9 62 76-0

Importer: A.W. Chesterton Company
Street: 860 Salem Street, Groveland
Place: MA 01834-1507, USA
Telephone: info@ceramic-polymer.de

Responsible Department:

Internet: www.ceramic-polymer.de

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:
Flammable liquids: Flam. Liq. 4
Skin corrosion/irritation: Skin Irrit. 2
Respiratory or skin sensitization: Skin Sens. 1

Hazard Statements:
Combustible liquid
Causes skin irritation
May cause an allergic skin reaction

Label elements

29 CFR Part 1910.1200
Signal word: Warning

Pictograms:

Hazard statements
Combustible liquid
Causes skin irritation
May cause an allergic skin reaction

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place.
Dispose of waste according to applicable legislation.

**Hazards not otherwise classified**

No information available.

### 3. Composition/information on ingredients

#### Mixtures

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxy propane and phenol</td>
<td>35 %</td>
</tr>
<tr>
<td>16096-31-4</td>
<td>1,6-bis(2,3-epoxypropoxy)hexane</td>
<td>6 %</td>
</tr>
<tr>
<td>9072-62-2</td>
<td>Polypropylene glycol-Epichlorhydrine-Copolymer</td>
<td>3 %</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.
- 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.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
- Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
- 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.

**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**

- **Additional advice on limit values**
  - To date, no national critical limit values exist.

**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>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odor:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method

pH-Value: not determined

Changes in the physical state

Melting point/freezing 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: > 65 °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.

**Vapor pressure:** not determined

**Density:** 
~1.75 g/cm³

**Water solubility:** not determined

**Solubility in other solvents**

No information available.

**Partition coefficient:** not determined

**Viscosity / dynamic:** ~8000 mPa·s

**Viscosity / kinematic:** not determined

**Vapor density:** not determined

**Evaporation rate:** not determined

**Other information**

Odour threshold: not determined

### 10. Stability and reactivity

**Reactivity**

Combustible liquid.

**Chemical stability**

- **Stability:** Stable
  - The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

- **Hazardous reactions:** May occur
  - Exothermic reaction 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**

- Does not decompose when used for intended uses. No known hazardous decomposition products.

### 11. Toxicological information

**Information on toxicological effects**

- **Route(s) of Entry**
  - dermal

- **Acute toxicity**
  - Based on available data, the classification criteria are not met.
Ceramic-Polymer STP-ep-hv  Part A

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Print date: 07/12/2017

Page 6 of 8

<table>
<thead>
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<td>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
</tr>
</tbody>
</table>

### Components

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
<td>Rat</td>
</tr>
</tbody>
</table>

### Irritation and corrosivity

- Causes skin irritation
- Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitizing effects

- May cause an allergic skin reaction (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; 1,6-bis(2,3-epoxypropoxy)hexane; Polypropylene glycol-Epichlorhydrine-Copolymer)

### 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.

### 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

- 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.

### Further information

- Avoid release to the environment.

### 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
# Safety Data Sheet

according to 29 CFR 1910.1200(g)

<table>
<thead>
<tr>
<th>US DOT 49 CFR 172.101</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN/ID number:</strong></td>
</tr>
<tr>
<td><strong>Proper shipping name:</strong></td>
</tr>
<tr>
<td><strong>Transport hazard class(es):</strong></td>
</tr>
<tr>
<td><strong>Packing group:</strong></td>
</tr>
<tr>
<td><strong>Hazard label:</strong></td>
</tr>
</tbody>
</table>

**Marine transport (IMDG)**

| **UN number:** | UN 3082 |
| **UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| **Transport hazard class(es):** | 9 |
| **Packing group:** | III |
| **Hazard label:** | 9 |
| **Limited quantity:** | 5 L |
| **Excepted quantity:** | E1 |
| **EmS:** | F-A, S-F |

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

| **UN number:** | UN 3082 |
| **UN proper shipping name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| **Transport hazard class(es):** | 9 |
| **Packing group:** | III |
| **Hazard label:** | 9 |
| **Limited quantity Passenger:** | 30 kg G |
| **Passenger LQ:** | Y964 |
| **Excepted quantity:** | E1 |
| **IATA-packing instructions - Passenger:** | 964 |
| **IATA-max. quantity - Passenger:** | 450 L |
| **IATA-packing instructions - Cargo:** | 964 |
| **IATA-max. quantity - Cargo:** | 450 L |

**Environmental hazards**

- ENVIRONMENTALLY HAZARDOUS: yes
- Danger releasing substance: epoxy resin

**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**

- Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: Yes.
- 1,6-bis(2,3-epoxypropoxy)hexane: Yes.
- Polypropylene glycol-Epichlorhydrine-Copolymer: Yes.

**National regulatory information**

- SARA Section 311/312 Hazards:
Safety Data Sheet

according to 29 CFR 1910.1200(g)

Ceramic-Polymer STP-ep-hv  Part A

Print date: 07/12/2017

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5):
Immediate (acute) health hazard
1,6-bis(2,3-epoxypropoxy)hexane (16096-31-4): Immediate (acute) health hazard
Polypropyleneglycol-Epichlorhydrine-Copolymer (9072-62-2): 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

Hazardous Materials Information Label (HMIS)

Health: 2
Flammability: 1
Physical Hazard: 1

NFPA Hazard Ratings

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

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

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(Rule of 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.)