1. Identification

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

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: Daimlerling 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:
Flammable liquid: 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

WHMIS 2015
Signal word: Warning

Pictograms:

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

Precautionary statements
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should 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.
Safety Data Sheet according to WHMIS

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Store in a well-ventilated place.
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>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane 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, 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.
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

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
   Wear protective gloves.
   Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Wear cotton underneath if possible. The quality of the protective gloves resistant to chemicals must be
choosen 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>Colour:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method

pH-Value: not determined

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and 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; 65 °C</td>
</tr>
</tbody>
</table>

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: | not determined |
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Gas:  not determined
Decomposition temperature:  not determined

**Oxidizing properties**
No information available.
Vapour pressure:  not determined
Density:  \(\sim 1.75 \text{ g/cm}^3\)
Water solubility:  not determined

**Solubility in other solvents**
No information available.
Partition coefficient:  not determined
Viscosity / dynamic:  \(~8000 \text{ mPa} \cdot \text{s}\)
Viscosity / kinematic:  not determined
Vapour density:  not determined
Evaporation rate:  not determined

**Other information**
: not determined

### 10. Stability and reactivity

**Reactivity**
Combustible liquid.

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

**Possibility of hazardous reactions**
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**

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

<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>9003-36-5</td>
<td>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000 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>
</tbody>
</table>

**Irritation and corrosivity**
Causes skin irritation.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.
Safety Data Sheet
according to WHMIS

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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-Epipropylene-Copolymer)

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
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

Canadian TDG
UN/ID number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
Hazard classes: 9
Packing group: III
Hazard label: 9
Limited quantity: 5 L

Marine transport (IMDG)
## Safety Data Sheet

**Ceramic-Polymer STP-ep-hv Part A**

**Print date:** 10/19/2017

### UN number:
UN 3082

### United Nations 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

**United Nations 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

### 15. Regulatory information

### Canadian regulations

#### DSL/NDSL inventory status

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

**NDSL:**
- Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: No
- 1,6-bis(2,3-epoxypropoxy)hexane: No
- Polypropyleneoxyleneglycol-Epichlorhydrine-Copolymer: No

#### National Pollutant Release Inventory (NPRI)
- Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol: No
- 1,6-bis(2,3-epoxypropoxy)hexane: No
- Polypropyleneoxyleneglycol-Epichlorhydrine-Copolymer: 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.)