1. Identification

Product identifier
Ceramic-Polymer SF/LF Part B

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

Manufacturer
Company name: Ceramic Polymer GmbH
Street: Daimlering 9
Place: DE-32289 Rödinghausen
Telephone: +49(0) 52 23 / 9 62 76-0 Telefax: +49(0) 52 23 / 9 62 76-17
e-mail: info@ceramic-polymer.de
Internet: www.ceramic-polymer.de
Responsible Department: info@ceramic-polymer.de

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

Emergency phone number:
24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-500 (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 Corr. 1
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1

Hazard Statements:
Combustible liquid
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:

Revision No: 1,00 USA - EN Revision date: 09/25/2017
Hazard statements
Combustible liquid
Causes severe skin burns and eye damage
May cause an allergic skin reaction

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not breathe 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 swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center/doctor.
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.
Store in a well-ventilated place.
Store locked up.

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>9046-10-0</td>
<td>Polyoxypropylenediamine (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups)</td>
<td>27.5 %</td>
</tr>
<tr>
<td>186321-96-0</td>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>22.5 %</td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>12.5 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>12.5 %</td>
</tr>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamin</td>
<td>3 %</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>2 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>2 %</td>
</tr>
<tr>
<td>71074-89-0</td>
<td>bis[(dimethylamino)methyl]phenol</td>
<td>1.5 %</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
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.

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.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
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
See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8
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
See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.
Safety Data Sheet

according to 29 CFR 1910.1200(g)

Ceramic-Polymer SF/LF Part B

Print date: 09/27/2017

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
Keep away from:
- Food and feedingstuffs
- Oxidising agent

Further information on storage conditions
Keep away from:
- 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-2017</td>
</tr>
</tbody>
</table>

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),
Butyl caoutchouc (butyl rubber)
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.
Filtering device (full mask or mouthpiece) with filter: A-P3
Wear self-contained breathing apparatus.
9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Color: yellow-brown
Odor: characteristic

Changes in the physical state

Test method

Not determined

Melting point/freezing point:
Initial boiling point and boiling range:
Sublimation point:
Softening point:
Pour point:
Flash point: > 85 °C

Explosive properties

No information available.

Lower explosion limits:
Upper explosion limits:
Ignition temperature:
Auto-ignition temperature

Solid:
Gas:

Decomposition temperature:

Oxidizing properties

No information available.

Vapor pressure:
Density (at 20 °C):
Water solubility:

Solubility in other solvents

No information available.

Partition coefficient:
Viscosity / dynamic:
(at 20 °C)
Viscosity / kinematic:
Vapor density:
Evaporation rate:

Other information

Odour threshold: No information available.

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

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

eyes. Inhalation. dermal.

Acute toxicity

Based on available data, the classification criteria are not met.
Ceramic-Polymer SF/LF Part B

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Print date: 09/27/2017

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<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</td>
<td>&gt;2000 mg/kg R</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg R</td>
<td>Rat</td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 2500 mg/kg R</td>
<td>OECD Guideline 423</td>
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<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg R</td>
<td>OECD Guideline 402</td>
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<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>oral</td>
<td>LD50</td>
<td>1620 mg/kg R</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>11 mg/l R</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>&gt;4178 mg/l R</td>
<td>Rat</td>
</tr>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamin</td>
<td>oral</td>
<td>LD50</td>
<td>1030 mg/kg R</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg R</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 R</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg R</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylene)</td>
<td>oral</td>
<td>LD50</td>
<td>1180 mg/kg M</td>
<td>OECD Guideline 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 3100 mg/kg R</td>
<td>TK 11813 was applied</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>11 mg/l R</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) aerosol</td>
<td>LC50</td>
<td>1,34 mg/l R</td>
<td>Rat</td>
</tr>
<tr>
<td>71074-89-0</td>
<td>bis[(dimethylamino)methyl]phenol</td>
<td>oral</td>
<td>ATE</td>
<td>500 mg/kg R</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg R</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; Phenol, styrenated; 3-aminomethyl-3,5,5-trimethylcyclohexylamin; m-phenylenebis(methylene))

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
13. Disposal considerations

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.

14. Transport information

US DOT 49 CFR 172.101

<table>
<thead>
<tr>
<th>UN/ID number:</th>
<th>UN 2735</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name:</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
</tbody>
</table>

Marine transport (IMDG)

<table>
<thead>
<tr>
<th>UN number:</th>
<th>UN 2735</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-A, S-B</td>
</tr>
<tr>
<td>Segregation group:</td>
<td>18 - alkalis</td>
</tr>
</tbody>
</table>

Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th>UN number:</th>
<th>UN 2735</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name:</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)</td>
</tr>
<tr>
<td>Transport hazard class(es):</td>
<td>8</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
</tr>
<tr>
<td>Limited quantity Passenger:</td>
<td>1 L</td>
</tr>
<tr>
<td>Passenger LQ:</td>
<td>Y841</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E1</td>
</tr>
</tbody>
</table>

| IATA-packing instructions - Passenger: | 852 |
| IATA-max. quantity - Passenger:        | 5 L |
| IATA-packing instructions - Cargo:     | 856  |
| IATA-max. quantity - Cargo:            | 60 L |

Environmental hazards

- ENVIRONMENTALLY HAZARDOUS: yes
- Danger releasing substance: Polyoxypropylenediamine
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
   Polyoxypolyethyleneamine (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxy groups): Yes.
   Phenol, styrenated: Yes.
   Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine: Yes.
   benzyl alcohol: Yes.
   3-aminomethyl-3,5,5-trimethylcyclohexylamin: Yes.
   m-phenylenebis(methylamine): Yes.
   bis[(dimethylamino)methyl]phenol: No.
   2,4,6-tris(dimethylaminomethyl)phenol: Yes.

   National regulatory information
   SARA Section 311/312 Hazards:
   Polyoxypolyethyleneamine (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxy groups) (9046-10-0): Immediate (acute) health hazard
   Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine (186321-96-0): Immediate (acute) health hazard
   Phenol, styrenated (61788-44-1): Immediate (acute) health hazard
   benzyl alcohol (100-51-6): Immediate (acute) health hazard
   3-aminomethyl-3,5,5-trimethylcyclohexylamin (2855-13-2): Immediate (acute) health hazard
   2,4,6-tris(dimethylaminomethyl)phenol (90-72-2): Immediate (acute) health hazard
   m-phenylenebis(methylamine) (1477-55-0): Immediate (acute) health hazard
   bis[(dimethylamino)methyl]phenol (71074-89-0): 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.

   Additional information
   No information available.

16. Other information

Hazardous Materials Information Label (HMIS)
   Health: 3
   Flammability: 2
   Physical Hazard: 1

NFPA Hazard Ratings
   Health: 3
   Flammability: 2
   Reactivity: 1
   Unique Hazard:

Revision date: 09/25/2017
Revision No: 1.00
Abbreviations and acronyms

- 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
- TSCA: Toxic Substances Control Act
- 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

This information describes the safety requirements of the product(s) and is based on the present state of our knowledge. They do not constitute a guarantee for the properties of the product(s) described in the sense of the statutory warranty regulations. The suitability of the product for certain applications must be checked separately by the consumer.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)