Safety Data Sheet

according to WHMIS

Print date: 10/19/2017

Ceramic-Polymer SF/LF  Part B

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1. Identification

Product identifier
Ceramic-Polymer SF/LF  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: Daimlerstr 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

Importer:
A.W. Chesterton Company Ltd. 889 Fraser Drive, Unit 105 Burlington, Ontario L7L 4X8, Canada
Phone 905-335-5055

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:
Skin corrosion/irritation: Skin Corr. 1
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Hazard Statements:
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
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements
Do not breathe 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If skin irritation or rash occurs: Get medical advice/attention.
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.
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Immediately call a POISON CENTER/doctor.
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>9046-10-0</td>
<td>Polyoxpropylenamine (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups)</td>
<td>25 - &lt; 30 %</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>20 - &lt; 25 %</td>
</tr>
<tr>
<td>61788-44-1</td>
<td>Phenol, styrenated</td>
<td>10 - &lt; 15 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>10 - &lt; 15 %</td>
</tr>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamin</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-phenylenebis(methylamine)</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>1 - &lt; 5 %</td>
</tr>
<tr>
<td>71074-89-0</td>
<td>bis(dimethylamino)methyl]phenol</td>
<td>1 - &lt; 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, whether acute or delayed
Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Indication of immediate medical attention and special treatment needed
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. 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
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
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.

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 (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>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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
  - 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
- Colour: yellow-brown
- Odour: characteristic

<table>
<thead>
<tr>
<th>pH-Value:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting 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>
<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; 85 °C</td>
</tr>
</tbody>
</table>

Flammability

- Solid: not determined
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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
Vapour pressure: not determined
Density (at 20 °C): ~1.15 g/cm³
Water solubility: not determined

Solubility in other solvents
No information available.

 Partition coefficient: not determined
Viscosity / dynamic: +6500 mPa·s
(at 20 °C)
Viscosity / kinematic: not determined
Vapour density: not determined
Evaporation rate: not determined

Other information

Odour threshold: No information available.

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
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.
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<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, tail-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></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt;2000 mg/kg</td>
<td>Rat</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>OECD Guideline 423</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rat</td>
<td>OECD Guideline 402</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></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 &gt;4178 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamin</td>
<td>oral</td>
<td>LD50 1030 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>ATE 1100 mg/kg</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>OECD Guideline 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 3100 mg/kg</td>
<td>Rat</td>
<td>TK 11813 was applied</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></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>71074-89-0</td>
<td>bis[(dimethylamino)methyl]phenol</td>
<td>oral</td>
<td>ATE 500 mg/kg</td>
<td></td>
<td></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, tail-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine; Phenol, styrenated; 3-aminomethyl-3,5,5-trimethylcyclohexylamin; m-phenylenebis(methylamine))

### 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
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Mobility in soil
No information available.

Other adverse effects
No information available.

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

Canadian TDG

UN/ID number: UN 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)
Hazard classes: 8
Packing group: III
Hazard label: 8
Limited quantity: 5 L

Marine transport (IMDG)

UN number: UN 2735
United Nations proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)
Transport hazard class(es): 8
Packing group: III
Hazard label: 8
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B
Segregation group: 18 - alkanes

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 2735
United Nations proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)
Transport hazard class(es): 8
Packing group: III
Hazard label: 8
Limited quantity Passenger: 1 L
Passenger LQ: Y841
Excepted quantity: E1
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Environmental hazards
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ENVIROMENTALLY HAZARDOUS: yes
Danger releasing substance: Polyoxypropylenediamine

15. Regulatory information

Canadian regulations

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

National Pollutant Release Inventory (NPRI)
2,4,6-tris(dimethylaminomethyl)phenol: No.
Polyoxypropylenediamine (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups): No.
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine: No.
Phenol, styrenated: No.
benzyl alcohol: No.
3-aminomethyl-3,5,5-trimethylcyclohexylamin: No.
m-phenylenebis(methylamine): No.
2,4,6-tris(dimethylaminomethyl)phenol: No.
bis[(dimethylamino)methyl]phenol: No.

Additional information
No information available.

16. Other information

Abbreviations and acronyms
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refutations 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: Effectice 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
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

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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.)