1. IDENTIFICATION

Product Identifier

Product Name PC-7, Part A

Other means of identification

SDS # 130519-23C-CA

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose epoxy paste

Uses Advised Against No information available

Details of the supplier of the safety data sheet

Initial Supplier Identifier THIS SAFETY DATA SHEET IS NOT COMPLIANT UNLESS CANADIAN ADDRESS IS USED

Manufacturer Address Protective Coatings Co.
221 S Third St.
Allentown, PA 18102 USA
610-432-3543 / 800-220-2103

Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Grey paste

Physical state Paste

Odour Mild

Classification

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label Elements

Signal word Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapours/spray
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
Take off all contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Information
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A - Epichlorohydrin polymer</td>
<td>25068-38-6</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>37</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3, dimethylbenzene</td>
<td>26139-75-3</td>
<td>11</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>65997-17-3</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>9002-88-4</td>
<td>1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.5</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First Aid Measures

General advice
Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant, paramedic, or community medical support.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin contact  
Wash with soap and plenty of water. Remove and wash contaminated clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation  
Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Ingestion  
Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Seek medical advice.

Self-protection of the first aider  
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Most important symptoms and effects  

Symptoms  
Causes eye and skin irritation. Inhalation only possible at elevated temperatures. May cause irritation. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed  

Note to doctors  
Skin and eye conditions may be aggravated by long term exposure.

5. FIREFIGHTING MEASURES  

Suitable Extinguishing Media  
Dry chemical, CO2 or water spray.

Unsuitable extinguishing media  
Not determined.

Specific hazards arising from the chemical  
Product is not flammable.

Hazardous Combustion Products  
Carbon monoxide. Carbon dioxide (CO2). Aldehydes.

Explosion Data  
Sensitivity to Mechanical Impact  
None.

Sensitivity to Static Discharge  
None.

Special protective equipment for fire-fighters  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear positive pressure self-contained breathing apparatus (SCBA). Do not release runoff from fire control methods to sewers or waterways. NFPA Class IIIB.

6. ACCIDENTAL RELEASE MEASURES  

Personal precautions, protective equipment and emergency procedures  

Personal precautions  
Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions  

Environmental precautions  
See Section 12 for additional Ecological Information.
7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapours/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under <90°F (32°C). NFPA Class IIIB storage.

Incompatible materials
None known based on information supplied

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Canada - Alberta - Occupational Exposure Limits - Ceilings</th>
<th>Canada - British Columbia - Occupational Exposure Limits - Ceilings</th>
<th>Canada - Ontario - Occupational Exposure Limits - Ceilings</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc 14807-96-6</td>
<td>TWA: 2 mg/m$^3$</td>
<td>TWA: 2 mg/m$^3$</td>
<td>TWA: 2 mg/m$^3$</td>
<td>TWA: 3 mg/m$^3$</td>
</tr>
<tr>
<td>Soda lime borosilicate glass 65997-17-3</td>
<td>TWA: 5 mg/m$^3$ TWA: 1 fibre/cm$^3$</td>
<td>TWA: 1 fibre/cm$^3$ TWA: 5 mg/m$^3$</td>
<td>TWA: 1 fibre/cm$^3$ TWA: 5 mg/m$^3$</td>
<td>TWA: 10 mg/m$^3$</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>TWA: 10 mg/m$^3$</td>
<td>TWA: 10 mg/m$^3$ TWA: 3 mg/m$^3$</td>
<td>TWA: 10 mg/m$^3$</td>
<td>TWA: 10 mg/m$^3$</td>
</tr>
</tbody>
</table>

Other Information
If product is sanded, appropriate respirator should be worn to avoid breathing dust. Pre-existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate titanium dioxide dust. Inhaled titanium dioxide has been classified by IARC as a human carcinogen (see section 11).

Appropriate engineering controls

Engineering controls
Maintain eye wash fountain and quick-drench facilities in work area. Provide general or local exhaust ventilation if product is sanded or ground.

Individual protection measures, such as personal protective equipment

Eye/face protection
Chemical safety goggles/face shield. If necessary, refer to appropriate regulations and standards.
Skin and body protection
Wear protective gloves and protective clothing. If necessary, refer to appropriate regulations and standards.

Respiratory protection
Ensure adequate ventilation, especially in confined areas. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate. If necessary, refer to appropriate regulations and standards.

General hygiene considerations
Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Grey paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>$&gt; / = 2.0 - &lt; / = 12.0$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>248.88 °C / 480 °F CC (closed cup)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Density</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.15</td>
<td>(1=Water)</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Alcohols</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>9.5 lbs/gal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No information available.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerisation
Hazardous polymerisation does not occur.
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye contact
Causes serious eye irritation.

Skin contact
Causes skin irritation. May cause an allergic skin reaction.

Inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Ingestion
May cause discomfort if swallowed.

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Numerical measures of toxicity

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 11,304.00 mg/kg

Unknown acute toxicity
No information available

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A - Epichlorohydrin polymer 25068-38-6</td>
<td>= 11400 mg/kg (Rat)</td>
<td>20000 mg/kg (rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3,dimethylbenzene 26139-75-3</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Polyethylene 9002-88-4</td>
<td>&gt; 2000 mg/kg (Rat) = 8 g/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Carcinogenicity
Titanium dioxide is a possible carcinogen when it appears as a respirable dust.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>14807-96-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>65997-17-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9002-88-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>-</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 IARC components are "not classifiable as human carcinogens"
OSHA (Occupational Safety and Health Administration of the US Department of Labour)
X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>-</td>
<td>100: 96 h Brachydanio rerio g/L LC50 semi-static</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14807-96-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Mobility
Not determined.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused products
 Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Do not reuse empty containers.
14. TRANSPORT INFORMATION

**Note**  
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

**DOT**  
Not regulated

**TDG**  
Not regulated

**IATA**  
Not regulated

**IMDG**  
Not regulated

15. REGULATORY INFORMATION

**International Regulations**

**Ozone-depleting substances (ODS)**  
Not applicable

**Persistent Organic Pollutants**  
Not applicable

**Export Notification requirements**  
Not applicable

**International Inventories**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A - Epichlorohydrin polymer</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Talc</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3, dimethylbenzene</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend:**

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

HMIS

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>B-</td>
</tr>
</tbody>
</table>

Legend

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average)

STEL (Short Term Exposure Limit)

Ceiling

Maximum limit value

Skin designation

Issue Date: 06-Sep-2011

Revision Date: 25-Oct-2017

Revision Note: New format.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
1. IDENTIFICATION

Product Identifier

Product Name  PC-7, Part B

Other means of identification

SDS #  130519-20C-CA

Synonyms  None

Recommended use of the chemical and restrictions on use

Recommended Use  Multi-purpose epoxy paste

Uses Advised Against  No information available

Details of the supplier of the safety data sheet

Initial Supplier Identifier  THIS SAFETY DATA SHEET IS NOT COMPLIANT UNLESS CANADIAN ADDRESS IS USED

Manufacturer Address  Protective Coatings Co. 221 S Third St. Allentown, PA 18102 USA 610-432-3543 / 800-220-2103

Emergency Telephone Number

Emergency Telephone (24 hr)  INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

**Appearance**  Black paste  **Physical state**  Paste  **Odour**  Slight amine

**Classification**

<table>
<thead>
<tr>
<th></th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>1</td>
</tr>
</tbody>
</table>
Label Elements

Signal word
Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapours/spray
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water and soap
Take off all contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Polyaminoamide</td>
<td>68410-23-1</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>19</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Triethylene tetramine</td>
<td>112-24-3</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>65997-17-3</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>9002-88-4</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Formaldehyde, polymer with 1,3, dimethylbenzene</td>
<td>26139-75-3</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ceramic Fiber</td>
<td>142844-00-6</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0.9</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

First Aid Measures

General advice
Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant, paramedic, or community medical support.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin contact
Wash with soap and plenty of water. Remove and wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation
Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.

Ingestion
Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Most important symptoms and effects

Symptoms
Causes eye and skin irritation. May cause an allergic skin reaction. May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Note to doctors
Skin and eye conditions may be aggravated by long term exposure.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical, CO2 or water spray.

Unsuitable extinguishing media
Not determined.

Specific hazards arising from the chemical
Product is not flammable.

Hazardous Combustion Products
Carbon monoxide. Carbon dioxide (CO2). Aldehydes.

Explosion Data
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear positive pressure self-contained breathing apparatus (SCBA). NFPA Class III B. Do not release runoff from fire control methods to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective gloves/protective clothing and eye/face protection. Remove any contaminated clothing and wash thoroughly before reuse.
Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Dispose of contents/container to an approved waste disposal plant.

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under <90F (32C). NFPA Class IIIB storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Canada - Occupational Exposure Limits - Ceilings</th>
<th>Canada - British Columbia - Occupational Exposure Limits - Ceilings</th>
<th>Canada - Ontario - Occupational Exposure Limits - Ceilings</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc 14807-96-6</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 3 mg/m³</td>
</tr>
<tr>
<td>Kaolin 1332-58-7</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 2 mg/m³</td>
<td>TWA: 5 mg/m³</td>
</tr>
<tr>
<td>Triethylene tetramine 112-24-3</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 1 fibre/cm³</td>
<td>TWA: 1 fibre/cm³</td>
<td>TWA: 0.5 ppm</td>
</tr>
<tr>
<td>Soda lime borosilicate glass 65997-17-3</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 1 fibre/cm³</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>Ceramic Fiber 142844-00-6</td>
<td>TWA: 0.2 fibre/cm³</td>
<td>TWA: 0.2 fibre/cm³</td>
<td>TWA: 0.5 fibre/cm³</td>
<td>TWA: 1 fibre/cm³</td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>TWA: 3.5 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
</tbody>
</table>

Other Information

If product is sanded, appropriate respirator should be worn to avoid breathing dust. Pre-existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate Ceramic fiber dust. Inhaled fibers have been classified by IARC as a human carcinogen (see section 11).
Appropriate engineering controls

Engineering controls
Provide general or local exhaust ventilation if product is sanded or ground. Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/face protection
Chemical safety goggles/faceshield. If necessary, refer to appropriate regulations and standards.

Skin and body protection
Wear protective gloves and protective clothing. If necessary, refer to appropriate regulations and standards.

Respiratory protection
Ensure adequate ventilation, especially in confined areas. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate. If necessary, refer to appropriate regulations and standards.

General hygiene considerations
Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Black paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Slight amine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>&gt; / = 2.0 - &lt; / = 12.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>110 °C / 230 °F</td>
<td>CC (closed cup)</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour Density</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.86</td>
<td>(1=Water)</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Alcohols</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>7.2 lbs/gal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under normal conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerisation**
Hazardous polymerisation does not occur.

**Conditions to Avoid**
Excessive heat over long periods of time.

**Incompatible Materials**
None known based on information supplied.

**Hazardous Decomposition Products**
Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information**

- **Eye contact**
  Causes serious eye irritation.

- **Skin contact**
  Causes skin irritation. May cause an allergic skin reaction.

- **Inhalation**
  Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

- **Ingestion**
  May cause discomfort if swallowed. May be harmful if swallowed.

### Information on physical, chemical and toxicological effects

**Symptoms**
Please see section 4 of this SDS for symptoms.

**Numerical measures of toxicity**

**Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

**ATEmix (oral)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Polyaminoamide</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>2000 mg/kg (rat)</td>
<td>-</td>
</tr>
<tr>
<td>68410-23-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kaolin</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>-</td>
</tr>
<tr>
<td>1332-58-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylene tetramine</td>
<td>= 2500 mg/kg (Rat)</td>
<td>= 550 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>112-24-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene</td>
<td>&gt; 2000 mg/kg (Rat) = 8 g/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9002-88-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Formaldehyde, polymer with 1,3, dimethylbenzene 26139-75-3 | >2000 mg/kg (rat) | - | -
Carbon Black 1333-86-4 | > 15400 mg/kg (Rat) | > 3 g/kg (Rabbit) | -

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Respiratory or skin sensitisation**
May cause an allergic skin reaction.

**Carcinogenicity**
Carbon black is a possible carcinogen when it appears as a respirable dust. Ceramic Fiber is a possible carcinogen when it appears as a respirable dust.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc 14807-96-6</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Soda lime borosilicate glass 65997-17-3</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Polyethylene 9002-88-4</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ceramic Fiber 142844-00-6</td>
<td>A2</td>
<td>Group 2B</td>
<td>Reasonably Anticipated</td>
<td>X</td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>A3</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)
- Group 2B - Possibly Carcinogenic to Humans
- Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labour)
- X - Present

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc 14807-96-6</td>
<td>-</td>
<td>100: 96 h Brachydanio rerio g/L LC50 semi-static</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Triethylene tetramine 112-24-3</td>
<td>20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.5: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>495: 96 h Pimephales promelas mg/L LC50 570: 96 h Poecilia reticulata mg/L LC50 semi-static</td>
<td>-</td>
<td>31.1: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5600: 24 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

**Persistence/Degradability**
No information available.

**Bioaccumulation**
No information available.
Mobility

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene tetramine 112-24-3</td>
<td>-1.4</td>
</tr>
</tbody>
</table>

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT
Not regulated

TDG
Not regulated

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Polyaminoamide</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Talc</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Kaolin</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Triethylene tetramine</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Soda lime borosilicate glass</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Formaldehyde, polymer with</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

EN  /  HGHS  Page 8 / 9
1,3, dimethylbenzene | X | X | X | X
Ceramic Fiber | X | X | X | X
Carbon Black | Present | X | Present | X | X

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| NFPA | Health Hazards | 2 | Flammability | 1 | Instability | 0 | Special Hazards | Not determined |
| HMIS | Health Hazards | 2 | Flammability | 1 | Physical hazards | 0 | Personal Protection | B- Safety Glasses, Gloves |

Legend
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA | TWA (time-weighted average)
STEL | STEL (Short Term Exposure Limit)
Ceiling | Maximum limit value
* | Skin designation

Issue Date: 06-Sep-2011

Revision Date: 25-Oct-2017
Revision Note: New format.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet