Safety Data Sheet

GenFlex Roofing Systems

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier
Product Name
Coated Glass Facer Insulation

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s)
Construction

1.3 Details of the supplier of the safety data sheet
Manufacturer
Firestone Building Products Company
250 West 96th Street
Indianapolis, IN 46260
United States
genflexmsds@bfdp.com

Telephone (General)
800-428-4442

1.4 Emergency telephone number
Manufacturer
(800) 424-9300 - CHEMTREC
Manufacturer
(703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture
CLP
Not classified
DSD/DPD
Not classified

2.2 Label Elements
CLP
Hazard statements
No label element(s) required
DSD/DPD
Risk phrases
No label element(s) required

2.3 Other Hazards
CLP
According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.
DSD/DPD
According to European Directive 1999/45/EC this preparation is not considered dangerous.

United States (US)
According to OSHA 29 CFR 1910.1200 HCS

Preparation Date: 30/October/2012
Revision Date: 08/May/2014

Format: EU CLP/REACH Language: English (US)
WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012

Page 1 of 15
2.1 Classification of the substance or mixture
OSH A HCS 2012
- Not classified

2.2 Label elements
OSH A HCS 2012
Hazard statements
- No label element(s) required

2.3 Other hazards
OSH A HCS 2012
- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada
According to WHMIS

2.1 Classification of the substance or mixture
WHMIS
- Not classified

2.2 Label elements
WHMIS
- No label element(s) required

2.3 Other hazards
WHMIS
- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances
- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals</td>
<td>CAS:65997-17-3</td>
<td>&lt; 25%</td>
<td>NDA</td>
<td>EU DSD/DPD: Not Classified&lt;br&gt;EU CLP: Not Classified&lt;br&gt;OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>EC Number:266-046-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>CAS:78-78-4 EC</td>
<td>4.5% TO 9.9%</td>
<td>Inhalation-Rat LC50 • 280000 mg/m³ 4 Hour (s)</td>
<td>EU DSD/DPD: Annex VI, Table 3.2: F+; R12 N; R51-53 Xn; R65 R66 R67&lt;br&gt;EU CLP: Annex VI: Flam. Liq. 1, H224; Asp. Tox. 1, H304; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411; EUH066&lt;br&gt;OSHA HCS 2012: Flam. Liq. 1; Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Resp. Irrit. &amp; Narc.; Asp. Tox. 1</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>Number:201-142-8</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Preparation Date: 30/October/2012
Revision Date: 08/May/2014
Format: EU CLP/REACH Language: English (US)
WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012
### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

**Inhalation**
- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

**Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

**Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

**Ingestion**
- Rinse mouth. Do not give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician**
- No specific actions or treatments recommended related to exposure to this material.

### Section 5 - Firefighting Measures

#### 5.1 Extinguishing media

**Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

**Unsuitable Extinguishing Media**
- No data available.

#### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- Burning of this product will produce thick black smoke. Toxic fumes and vapors may be produced. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Isopentane and n-pentane, highly flammable materials, may be present within this product.

**Hazardous Combustion Products**
- Carbon dioxide and carbon monoxide, phosphorus oxides, and phosphoric acid.

#### 5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters’ protective clothing will only provide limited protection. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Not applicable.

Emergency Procedures
- Not applicable.

6.2 Environmental precautions
- No special precautions necessary.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Avoid generating dust.
- Pick up large pieces. Sweep and scoop up material and put into a suitable container for disposal as a non-hazardous waste.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Use only in well ventilated areas. Wear appropriate personal protective equipment. Protect against dust that may be generated by reprocessing, altering or applying this product. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Keep away from heat, sparks and flame. Store in a cool, dry place.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th></th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Result</td>
</tr>
<tr>
<td>Pentane (109-66-0)</td>
<td>TWAs</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
</tr>
<tr>
<td>2-Methylbutane (78-78-4)</td>
<td>TWAs</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)</td>
<td>as Glass wool fiber</td>
</tr>
</tbody>
</table>

### Exposure Limits/Guidelines (Con't.)

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Northwest Territories</th>
<th>Canada Nova Scotia</th>
<th>Canada Nunavut</th>
<th>Canada Ontario</th>
<th>Canada Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>STELs</td>
<td>750 ppm STEL; 2213 mg/m³ STEL</td>
<td>Not established</td>
<td>750 ppm STEL; 2213 mg/m³ STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>TWAs</td>
<td>600 ppm TWA; 1771 mg/m³ TWA</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>600 ppm TWA; 1771 mg/m³ TWA</td>
<td>600 ppm TWA</td>
<td>120 ppm TWAEV; 350 mg/m³ TWAEV</td>
</tr>
<tr>
<td>Pentane (109-66-0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWAs</td>
<td>Not established</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>Not established</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>Not established</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>1 fibre/cm³ TWA (respirable fibers: length &gt;5 μm, aspect ratio &gt;=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)</td>
<td>3 fibre/cm³ TWA (with a diameter &lt;=3.5 μm and a length &gt;10 μm); 5 mg/m³ TWA (total mass)</td>
<td>1 fibre/cm³ TWA (fibres &gt;5 μm in length and an aspect ratio &gt;=3:1 as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination, respirable, listed under Synthetic Vitreous Fibres (Man Made Mineral Fibres))</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>Europe</th>
<th>NIOSH</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td>TWAs</td>
<td>600 ppm TWA</td>
<td>600 ppm TWA; 1800 mg/m³ TWA</td>
<td>1000 ppm TWA; 3000 mg/m³ TWA</td>
<td>120 ppm TWA; 350 mg/m³ TWA</td>
<td>1000 ppm TWA; 2950 mg/m³ TWA</td>
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<tr>
<td>STELs</td>
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<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ceilings</td>
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<td>Not established</td>
<td>610 ppm Ceiling (15 min); 1800 mg/m³ Ceiling (15 min)</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Pentane (109-66-0)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWAs</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>Not established</td>
<td>1000 ppm TWA; 3000 mg/m³ TWA</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>2-Methylbutane (78-78-4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 8.2 Exposure controls

**Engineering Measures/Controls**
- No special controls are expected to be needed.

**Personal Protective Equipment**

- **Respiratory**
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

- **Eye/Face**
  - Wear safety goggles.

- **Hands**
  - Wear appropriate gloves.

- **Skin/Body**
  - Wear long sleeves and/or protective coveralls if determined to be needed by the end-user.

**Environmental Exposure Controls**
- Follow best practice for site management and disposal of waste.

### Key to abbreviations

- **ACGIH** = American Conference of Governmental Industrial Hygiene
- **NIOSH** = National Institute of Occupational Safety and Health
- **OSHA** = Occupational Safety and Health Administration
- **STEL** = Short Term Exposure Limits are based on 15-minute exposures
- **TWA** = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- **TWAEV** = Time-Weighted Average Exposure Value

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Appearance/Description</strong></td>
<td>White rigid cellular sheets with a dark gray mat and no odor.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>General Properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Oxidizing Properties:</strong></td>
<td>Not an oxidizer.</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Data lacking</td>
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<tr>
<td><strong>Flammability</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>UEL</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>LEL</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not flammable.</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Octanol/Water Partition coefficient</strong></td>
<td>Data lacking</td>
</tr>
</tbody>
</table>
9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization not indicated.

10.4 Conditions to avoid

- No data available.

10.5 Incompatible materials

- No data available.

10.6 Hazardous decomposition products

- No data available.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS</th>
<th>Acute Toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (0.05% TO 5.5%)</td>
<td>109-66-0</td>
<td>orl-rat LD50&gt;:2000 mg/kg; ihl-rat LC50:364 gm/m3/4H</td>
</tr>
<tr>
<td>2-Methylbutane (4.5% TO 9.9%)</td>
<td>78-78-4</td>
<td>ihl-rat LC50:280000 mg/m3/4H</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>
Respiratory sensitization  | EU/CLP • Classification criteria not met  
|--------------------------|-------------------------------------
|                          | OSHA HCS 2012 • Classification criteria not met  
Serious eye damage/Irritation  | EU/CLP • Classification criteria not met  
|---------------------------|-------------------------------------
|                           | OSHA HCS 2012 • Classification criteria not met  

Route(s) of entry/exposure
● Inhalation, Skin, Eye, Ingestion
Medical Conditions
● Disorders of the lungs.

Aggravated by Exposure

Potential Health Effects

Inhalation
Acute (Immediate)
● Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)
● No data available

Skin
Acute (Immediate)
● Exposure to dust may cause mechanical irritation.

Chronic (Delayed)
● No data available.

Eye
Acute (Immediate)
● Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)
● No data available.

Ingestion
Acute (Immediate)
● Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed)
● No data available.

Key to abbreviations
LC = Lethal Concentration
LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity
● Material data lacking.

12.2 Persistence and degradability
● Material data lacking.

12.3 Bioaccumulative potential
● Material data lacking.

12.4 Mobility in Soil
● Material data lacking.

12.5 Results of PBT and vPvB assessment
● No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
● No studies have been found.
Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
● Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
● Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
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<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>ADN</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>ADR/RID</td>
<td>NDA</td>
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<td>IATA/ICAO</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
● None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
● Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
● None

State Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

Inventory

<table>
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<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>2-Propanol, 1-chloro-, 2,2'-phosphate</td>
<td>13674-84-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Glass, oxide, chemicals | 65997-17-3 | Yes | No | Yes | No | Yes
--- | --- | --- | --- | --- | --- | ---
Pentane | 109-66-0 | Yes | No | Yes | No | Yes

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 B2
- 2-Methylbutane
  - 78-78-4 B2
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

  Uncontrolled product according to WHMIS classification criteria (listed under Glass wool); D2A (listed under Mineral wool fiber)

**Canada - WHMIS - Ingredient Disclosure List**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 1 %
- 2-Methylbutane
  - 78-78-4 Not Listed
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

**Environment**

**Canada - 2004 NPRI (National Pollutant Release Inventory)**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 Not Listed
- 2-Methylbutane
  - 78-78-4 Not Listed
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

**Canada - 2005 NPRI (National Pollutant Release Inventory)**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 Not Listed
- 2-Methylbutane
  - 78-78-4 Not Listed
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

**Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 Not Listed
- 2-Methylbutane
  - 78-78-4 Not Listed
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

**Canada - CEPA - Priority Substances List**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate
  - 13674-84-5 Not Listed
- Pentane
  - 109-66-0 Not Listed
- 2-Methylbutane
  - 78-78-4 Not Listed
- Glass, oxide, chemicals
  - 65997-17-3 Not Listed

**Canada - DWQ (Drinking Water Quality) - IMACs**
<table>
<thead>
<tr>
<th>Coated Glass Facer Insulation</th>
<th></th>
</tr>
</thead>
</table>

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**Other**

**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**Canada New Brunswick**

**Environment**

**Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**Canada - New Brunswick - Ozone Depleting Substances - Schedule B**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**Europe**

**Other**

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 F+; R12 N; R51-53 Xn; R65 R66 R67
- 2-Methylbutane 78-78-4 F+; R12 N; R51-53 Xn; R65 R66 R67
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

- Pentane 109-66-0 S:(2)-9-16-29-33-61-62
- Glass, oxide, chemicals 65997-17-3  Not Listed
- Glass, oxide, chemicals as Glass wool fiber

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>S:(2)-9-16-29-33-61-62</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<td>C</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Safety Phrases**

- 2-Propanol, 1-chloro-, 2,2',2''-phosphate: Not Listed
- Pentane: S:(2)-9-16-29-33-61-62
- 2-Methylbutane: C
- Glass, oxide, chemicals: Not Listed
- Glass, oxide, chemicals as Glass wool fiber: Not Listed

**United States**

**Labor**

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Pentane</td>
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<td>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
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<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**U.S. - OSHA - Specifically Regulated Chemicals**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
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<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
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</tbody>
</table>

**Environment**

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5</td>
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</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

- Glass, oxide, chemicals as Glass wool fiber:

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>65997-17-3</td>
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</tbody>
</table>
• Glass, oxide, chemicals as Glass wool fiber

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

<table>
<thead>
<tr>
<th>Chemical</th>
<th>RQ</th>
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

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</tr>
</tbody>
</table>

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

<table>
<thead>
<tr>
<th>Chemical</th>
<th>RQ</th>
<th>TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
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<td>Not Listed</td>
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<td>109-66-0</td>
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<td>2-Methylbutane</td>
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<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>carcinogen, initial date 7/1/90 (inhalable and biopersistent)</td>
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</tr>
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</table>

U.S. - California - Proposition 65 - Developmental Toxicity

<table>
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<tr>
<th>Chemical</th>
<th>RQ</th>
<th>TPQ</th>
</tr>
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<tbody>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
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<td>65997-17-3</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- 2-Propanol, 1-chloro-, 2',2'',2''-phosphate 13674-84-5 Not Listed
- Pentane 109-66-0 Not Listed
- 2-Methylbutane 78-78-4 Not Listed
- Glass, oxide, chemicals 65997-17-3 Not Listed
- Glass, oxide, chemicals as Glass wool fiber Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H224 - Extremely flammable liquid and vapour
- H225 - Highly flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects
EUH066 - Repeated exposure may cause skin dryness or cracking.
R12 - Extremely flammable.
R22 - Harmful if swallowed.
R51 - Toxic to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.
R66 - Repeated exposure may cause skin dryness or cracking.
R67 - Vapours may cause drowsiness and dizziness.

**Last Revision Date** 08/May/2014
**Preparation Date** 30/October/2012
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**Key to abbreviations**
NDA = No data available