Safety Data Sheet

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

1.1 Product identifier

Product Name  HD Composite

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  This product is not considered dangerous under the European Directive 1999/45/EC

United States (US)

According to OSHA 29 CFR 1910.1200 HCS
2.1 Classification of the substance or mixture
OSHA HCS 2012  Not classified

2.2 Label elements
OSHA HCS 2012
Hazard statements No label elements(s) required

2.3 Other hazards
OSHA 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>Carbonic acid calcium salt (1:1)</td>
<td>CAS:471-34-1</td>
<td>23%</td>
<td>Ingestion/Oral-Rat LD50 • 6450 mg/kg</td>
<td>EU DSD/DPD: Self Classified - Xi R36/38 EU CLP: Self Classified - Skin Irrit. 2 H315; Eye Irrit. 2, H319 OSHA HCS 2012: Skin Irrit. 2, Eye Irrit. 2</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>EC Number:207-439-9</td>
<td>57%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>CAS:65997-17-3</td>
<td>3%</td>
<td>NDA</td>
<td>EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>EC Number:266-046-0</td>
<td>19%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>CAS:13674-84-5</td>
<td>1.76%</td>
<td>Ingestion/Oral-Rat LD50 • 1500 mg/kg</td>
<td>EU DSD/DPD: Self Classified - Xn, R22 EU CLP: Self Classified - Acute Tox. 4, H302 OSHA HCS 2012: Acute Tox. 4 (oral)</td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td>EC Number:237-158-7</td>
<td>2.25%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EU DSD/DPD: Annex VI, Table 3.2 - Annex I - F+: R12 N; R51-53 Xn; R65 R66 R67</td>
<td></td>
</tr>
</tbody>
</table>

Preparation Date: 29/December/2014
Revision Date: 29/December/2014
See Section 16 for full text of H-statements and R-phrases.

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>Exposure Limits/Guidelines</th>
<th>Exposure Limits/Guidelines</th>
<th>Exposure Limits/Guidelines</th>
<th>Exposure Limits/Guidelines</th>
<th>Exposure Limits/Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH</td>
<td>Canada Alberta</td>
<td>Canada British Columbia</td>
<td>Canada Manitoba</td>
</tr>
<tr>
<td></td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>600 ppm TWA; 1770 mg/m3 TWA</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
</tr>
<tr>
<td></td>
<td>STELs</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>2-Methylbutane (78-78-4)</td>
<td>TWAs</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
<td>600 ppm TWA; 1770 mg/m3 TWA</td>
<td>600 ppm TWA (listed under Pentane, all isomers)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt;5 μm, aspect ratio &gt;=3:1, as)</td>
<td>1 fibre/cm³ TWA (fibres &gt;5 μm, with an aspect ratio of &gt;=3:1, as determined)</td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt;5 μm, aspect ratio &gt;=3:1, as)</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>Pentane (109-66-0)</td>
<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>
</tr>
<tr>
<td></td>
<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>
</tr>
<tr>
<td>2-Methylbutane (78-78-4)</td>
<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>
</tr>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>TWAs</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 (respirable fibres: 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 fibres)</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>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1) (471-34-1)</td>
<td>TWAs</td>
<td>5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)</td>
<td>Not established</td>
<td>5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Result</th>
<th>Canada Saskatchewan</th>
<th>Canada Yukon</th>
<th>Europe</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (109-66-0)</td>
<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>
</tr>
<tr>
<td></td>
<td>STELs</td>
<td>Not established</td>
<td>750 ppm STEL; 2250 mg/m³ STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>610 ppm Ceiling (15 min); 1800 mg/m³ Ceiling (15 min)</td>
</tr>
</tbody>
</table>
2-Methylbutane (78-78-4)  
**TWAs**  
600 ppm TWA (listed under Pentane, all isomers)  
Not established  
1000 ppm TWA; 3000 mg/m3 TWA  
Not established  
Not established

Glass, oxide, chemicals as Glass wool fiber  
**TWAs**  
1 fibre/cm3 TWA (respirable fibres, listed under Synthetic vitreous fibres)  
30 mppcf TWA; 10 mg/m3 TWA (respirable mass)  
Not established  
3 fiber/cm3 TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m3 TWA (total)  
Not established

Carbonic acid calcium salt (1:1) (471-34-1)  
**TWAs**  
10 mg/m3 TWA (listed under Limestone)  
30 mppcf TWA; 10 mg/m3 TWA  
Not established  
10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)  
Not established

**STELs**  
Not established  
20 mg/m3 STEL  
Not established  
Not established  
Not established

### 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  
TWAEV = Time-Weighted Average Exposure Value  
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th><strong>Material Description</strong></th>
<th><strong>Physical Form</strong></th>
<th><strong>Solid</strong></th>
<th><strong>Appearance/Description</strong></th>
<th><strong>White rigid cellular sheets coated with white, cream-colored mat with no odor.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>White</td>
<td>Odor</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Data lacking</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>General Properties</strong></th>
<th><strong>Boiling Point</strong></th>
<th>Data lacking</th>
<th><strong>Melting Point</strong></th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
<td><strong>pH</strong></td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
<td><strong>Water Solubility</strong></td>
<td>Insoluble</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
<td><strong>Explosive Properties</strong></td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td><strong>Oxidizing Properties:</strong></td>
<td>Data lacking</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Volutility</strong></th>
<th><strong>Vapor Pressure</strong></th>
<th>Data lacking</th>
<th><strong>Vapor Density</strong></th>
<th>Data lacking</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
<td>Data lacking</td>
<td><strong>Explosive Properties</strong></td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

Preparation Date: 29/December/2014  
Revision Date: 29/December/2014  
Format: EU CLP/REACH Language: English (US)  
WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012  
Page 6 of 16
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

- None known.

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>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 280000 mg/m³ 4 Hour(s)</th>
<th>Behavioral/Convulsions or effect on seizure threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (0.54% TO 1.67%)</td>
<td>109-66-0</td>
<td></td>
</tr>
<tr>
<td>2-Methylbutane (0.67% TO 2.03%)</td>
<td>78-78-4</td>
<td></td>
</tr>
<tr>
<td>2-Propanol, 1-chloro-, 2,2',2''-phosphate (1.78% TO 2.25%)</td>
<td>13674-84-5</td>
<td></td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1) (23% TO 57%)</td>
<td>471-34-1</td>
<td></td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>EU/CLP • Classification criteria not met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
</tbody>
</table>

Preparation Date: 29/December/2014
Revision Date: 29/December/2014
Page 7 of 16
| Carcinogenicity | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| Germ Cell Mutagenicity | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| Skin corrosion/Irritation | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| STOT-RE | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| STOT-SE | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| Toxicity for Reproduction | EU/CLP • Classification criteria not met | OSHA HCS 2012 • Classification criteria not met |
| 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 Aggravated by Exposure**
- Disorders of the lungs

**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

**Carcinogenic Effects**
- Direct implantation of glass fibers into the lung tissue of laboratory animals has produced lung fibrosis and lung cancer. Human epidemiological studies of inhalation exposure have yielded negative results.

**Carcinogenic Effects**

<table>
<thead>
<tr>
<th>CAS</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass, oxide, chemicals as Glass wool fiber</td>
<td>NDA</td>
</tr>
</tbody>
</table>

**Key to abbreviations**
- LC = Lethal Concentration
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>
<td>Not regulated</td>
<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>
<td>NDA</td>
</tr>
<tr>
<td>ADN</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>NDA</td>
<td>Not regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<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

<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>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</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>
</tr>
</tbody>
</table>

**Inventory**

<table>
<thead>
<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',2''-phosphate</td>
<td>13674-84-5</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**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
    - Glass, oxide, chemicals as Glass wool fiber
    - Carbonic acid calcium salt (1:1)  | 471-34-1 | 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
<table>
<thead>
<tr>
<th>Environment</th>
<th>Canada - CEPA - Priority Substances List</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
<tr>
<td>• Pentane</td>
<td>109-66-0 Not Listed</td>
</tr>
<tr>
<td>• 2-Methylbutane</td>
<td>78-78-4 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals</td>
<td>65997-17-3 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
</tr>
<tr>
<td>• Carbonic acid calcium salt (1:1)</td>
<td>471-34-1 Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
<th>Canada - Accelerated Reduction/Elimination of Toxics (ARET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
<tr>
<td>• Pentane</td>
<td>109-66-0 Not Listed</td>
</tr>
<tr>
<td>• 2-Methylbutane</td>
<td>78-78-4 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals</td>
<td>65997-17-3 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
</tr>
<tr>
<td>• Carbonic acid calcium salt (1:1)</td>
<td>471-34-1 Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada New Brunswick</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
<tr>
<td>• Pentane</td>
<td>109-66-0 Not Listed</td>
</tr>
<tr>
<td>• 2-Methylbutane</td>
<td>78-78-4 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals</td>
<td>65997-17-3 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
</tr>
<tr>
<td>• Carbonic acid calcium salt (1:1)</td>
<td>471-34-1 Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canada New Brunswick</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
<tr>
<td>• Pentane</td>
<td>109-66-0 Not Listed</td>
</tr>
<tr>
<td>• 2-Methylbutane</td>
<td>78-78-4 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals</td>
<td>65997-17-3 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
</tr>
<tr>
<td>• Carbonic acid calcium salt (1:1)</td>
<td>471-34-1 Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europe</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
<tr>
<td>• Pentane</td>
<td>109-66-0 F+; R12 N; R51-53 Xn; R65 R66 R67</td>
</tr>
<tr>
<td>• 2-Methylbutane</td>
<td>78-78-4 F+: R12 N; R51-53 Xn; R65 R66 R67</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals</td>
<td>65997-17-3 Not Listed</td>
</tr>
<tr>
<td>• Glass, oxide, chemicals as Glass wool fiber</td>
<td>Not Listed</td>
</tr>
<tr>
<td>• Carbonic acid calcium salt (1:1)</td>
<td>471-34-1 Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Europe</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 2-Propanol, 1-chloro-, 2,2',2''-phosphate</td>
<td>13674-84-5 Not Listed</td>
</tr>
</tbody>
</table>
• 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling
• 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
• 2-Methylbutane 78-78-4 F+ Xn N R:12-51/53-65-66-67 S:(2)-9-16-29-33-61-62
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations
• 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
• Pentane 109-66-0 C
• 2-Methylbutane 78-78-4 C
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases
• 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
• Pentane 109-66-0 S:(2)-9-16-29-33-61-62
• 2-Methylbutane 78-78-4 S:(2)-9-16-29-33-61-62
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

United States

Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
• 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

Environment
U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
• 2-Propanol, 1-chloro-, 2,2',2''-phosphate 13674-84-5 Not Listed
- Pentane
- 2-Methylbutane
- Glass, oxide, chemicals

- Glass, oxide, chemicals as Glass wool fiber

- Carbonic acid calcium salt (1:1)

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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<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>Not Listed</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<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>Not Listed</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<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>Not Listed</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<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>Not Listed</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
<tr>
<td>2-Methylbutane</td>
<td>78-78-4</td>
<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>Not Listed</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>RQs</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>Not Listed</td>
</tr>
</tbody>
</table>
• 2-Methylbutane 78-78-4 Not Listed
• Glass, oxide, chemicals 65997-17-3 Not Listed
• Glass, oxide, chemicals as Glass wool fiber Not Listed
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed
carcinogen, initial date 7/1/90 (inhalable and biopersistent)

U.S. - California - Proposition 65 - Developmental Toxicity
• 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

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
• Carbonic acid calcium salt (1:1) 471-34-1 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
• Carbonic acid calcium salt (1:1) 471-34-1 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
• Carbonic acid calcium salt (1:1) 471-34-1 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

Preparation Date: 29/December/2014
Revision Date: 29/December/2014
carbonic acid calcium salt (1:1) 471-34-1 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
• Carbonic acid calcium salt (1:1) 471-34-1 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
• Carbonic acid calcium salt (1:1) 471-34-1 Not Listed

15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out.

15.3 Other Information
WARNING: This product contains a chemical known to the State of California to cause cancer.

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
H315 - Causes skin irritation
H319 - Causes serious eye irritation
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.
R36/38 - Irritating to eyes and skin.
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 29/December/2014
Preparation Date 29/December/2014
Disclaimer/Statement of Liability
The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products
Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Key to abbreviations
NDA = No data available