

Safety Data Sheet

Firestone Building Products Company

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

1.1 Product identifier

Product Name • ISOGARD™ HD Composite Board

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

firestonemsds@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 Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
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 element(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

| Composition | | | | | |
|--|---------------------------------------|----------------|---|---|----------|
| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| Carbonic acid calcium salt (1:1) | CAS:471-34-1 EC Number:207-439-9 | 23% TO 57% | Ingestion/Oral-Rat LD50 • 6450 mg/kg | 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 | NDA |
| Glass, oxide, chemicals | CAS:65997-17-3 EC Number:266-046-0 | 3% TO 19% | NDA | EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified | NDA |
| 2-Propanol, 1-chloro-, 2,2',2"-phosphate | CAS:13674-84-5 EC Number:237-158-7 | 1.76% TO 2.25% | Ingestion/Oral-Rat LD50 • 1500 mg/kg | EU DSD/DPD: Self Classified - Xn, R22 EU CLP: Self Classified - Acute Tox. 4, H302 OSHA HCS 2012: Acute Tox. 4 (orl) | NDA |

| | | | | | |
|----------------|---|----------------------|---|--|-----|
| 2-Methylbutane | CAS: 78-78-4 EC Number: 201-142-8 | 0.67% TO 2.03% | Inhalation-Rat LC50 • 280000 mg/m ³ 4 Hour (s) | EU DSD/DPD: Annex VI, Table 3.2 - Annex I - F+; R12 N; R51-53 Xn; R65 R66 R67 EU CLP: Annex VI, Table 3.1 - Flam. Liq. 1, H224; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411; EUH066 OSHA HCS 2012: Flam Liq 1; Eye Irrit 2A, Skin Irrit 2, STOT SE 3: Resp. Irrit. & Narc., Asp. Tox. 1 | NDA |
| Pentane | CAS: 109-66-0 EC Number: 203-692-4 | 0.54% TO 1.67% | Inhalation-Rat LC50 • 364 g/m ³ 4 Hour(s) Ingestion/Oral-Rat LD50 • >2000 mg/kg | EU DSD/DPD: Annex VI, Table 3.2 - Annex I - F+; R12 N; R51-53 Xn; R65 R66 R67 EU CLP: Annex VI, Table 3.1 - Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3: Narc., H336; Aquatic Chronic 2, H411; EUH066 OSHA HCS 2012: Flam. Liq. 1; Asp. Tox. 1. Eye Irrit. 2, Skin Irrit. 2, STOT SE 3: Narc. | NDA |

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

| Exposure Limits/Guidelines | | | | | | |
|-----------------------------|--------|---|---|--|---|---|
| | Result | ACGIH | Canada Alberta | Canada British Columbia | Canada Manitoba | Canada New Brunswick |
| Pentane (109-66-0) | TWAs | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA; 1770 mg/m ³ TWA | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA; 1770 mg/m ³ TWA |
| | STELs | Not established | Not established | Not established | Not established | 750 ppm STEL; 2210 mg/m ³ STEL |
| 2-Methylbutane (78-78-4) | TWAs | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA; 1770 mg/m ³ TWA | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA (listed under Pentane, all isomers) | Not established |
| | | 1 fiber/cm ³ TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as | | 1 fibre/cm ³ TWA (fibres >5 µm, with an aspect ratio of ≥3:1, as determined | 1 fiber/cm ³ TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as | |

| | | | | | | |
|---|------|---|---|---|---|---|
| Glass, oxide, chemicals as Glass wool fiber | TWAs | determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i> | 1 fibre/cm3 TWA <i>as Glass wool fiber</i> | by the membrane filter method at 400-450 times magnification (4 mm objective), using phase-contrast illumination, listed under Synthetic vitreous fibres) <i>as Glass wool fiber</i> | determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i> | 1 fibre/cm3 TWA (fibres >5 µm with a diameter <3 µm, aspect ratio >5:1) <i>as Glass wool fiber</i> |
| Carbonic acid calcium salt (1:1) (471-34-1) | TWAs | Not established | 10 mg/m3 TWA | Not established | Not established | Not established |

Exposure Limits/Guidelines (Con't.)

| | Result | Canada Northwest Territories | Canada Nova Scotia | Canada Nunavut | Canada Ontario | Canada Quebec |
|---|--------|---|--|---|---|--|
| Pentane (109-66-0) | STELs | 750 ppm STEL; 2213 mg/m3 STEL | Not established | 750 ppm STEL; 2213 mg/m3 STEL | Not established | Not established |
| | TWAs | 600 ppm TWA; 1771 mg/m3 TWA | 600 ppm TWA (listed under Pentane, all isomers) | 600 ppm TWA; 1771 mg/m3 TWA | 600 ppm TWA | 120 ppm TWAEV; 350 mg/m3 TWAEV |
| 2-Methylbutane (78-78-4) | TWAs | Not established | 600 ppm TWA (listed under Pentane, all isomers) | Not established | 600 ppm TWA (listed under Pentane, all isomers) | Not established |
| Glass, oxide, chemicals as Glass wool fiber | TWAs | 3 fibre/cm3 TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) <i>as Glass wool fiber</i> | 1 fiber/cm3 TWA (respirable fibers: length >5 µm, aspect ratio >=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) <i>as Glass wool fiber</i> | 3 fibre/cm3 TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) <i>as Glass wool fiber</i> | 1 fibre/cm3 TWA (fibres >5 µm in length and an aspect ratio >=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)) <i>as Glass wool fiber</i> | 2 fibre/cm3 TWAEV (respirable, listed under Fibres - Artificial Vitreous Mineral Fibres) <i>as Glass wool fiber</i> |
| Carbonic acid calcium salt (1:1) (471-34-1) | TWAs | 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) | Not established | 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) | Not established | 10 mg/m3 TWAEV (total dust) |

Exposure Limits/Guidelines (Con't.)

| | Result | Canada Saskatchewan | Canada Yukon | Europe | NIOSH | OSHA |
|--------------------|----------|---------------------|-------------------------------|------------------------------|---|------------------------------|
| Pentane (109-66-0) | TWAs | 600 ppm TWA | 600 ppm TWA; 1800 mg/m3 TWA | 1000 ppm TWA; 3000 mg/m3 TWA | 120 ppm TWA; 350 mg/m3 TWA | 1000 ppm TWA; 2950 mg/m3 TWA |
| | STELs | Not established | 750 ppm STEL; 2250 mg/m3 STEL | Not established | Not established | Not established |
| | Ceilings | Not established | Not established | Not established | 610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min) | Not established |

| | | | | | | |
|---|-------|---|--|------------------------------|--|-----------------|
| 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) <i>as Glass wool fiber</i> | 30 mppcf TWA; 10 mg/m3 TWA (respirable mass) <i>as Glass wool fiber</i> | Not established | 3 fiber/cm3 TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m3 TWA (total) <i>as Glass wool fiber</i> | 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

| Material Description | | | |
|-----------------------------------|--------------|------------------------|--|
| Physical Form | Solid | Appearance/Description | White rigid cellular sheets coated with white, cream-colored mat with no odor. |
| Color | White | Odor | Odorless |
| Odor Threshold | Data lacking | | |
| General Properties | | | |
| Boiling Point | Data lacking | Melting Point | Data lacking |
| Decomposition Temperature | Data lacking | pH | Data lacking |
| Specific Gravity/Relative Density | Data lacking | Water Solubility | Insoluble |
| Viscosity | Data lacking | Explosive Properties | Data lacking |
| Oxidizing Properties: | Data lacking | | |
| Volatility | | | |
| Vapor Pressure | Data lacking | Vapor Density | Data lacking |

| | | | |
|-------------------------------------|--------------|--------------|--------------|
| Evaporation Rate | Data lacking | | |
| Flammability | | | |
| Flash Point | Data lacking | UEL | Data lacking |
| LEL | Data lacking | Autoignition | Data lacking |
| Flammability (solid, gas) | Data lacking | | |
| Environmental | | | |
| Octanol/Water Partition coefficient | Data lacking | | |

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

| Component Name | CAS | Data |
|---|------------|--|
| Pentane (0.54% TO 1.67%) | 109-66-0 | Acute Toxicity: orl-rat LD50:>2000 mg/kg; ihl-rat LC50:364 gm/m3/4H |
| 2-Methylbutane (0.67% TO 2.03%) | 78-78-4 | Acute Toxicity: ihl-rat LC50:280000 mg/m3/4H |
| 2-Propanol, 1-chloro-, 2,2',2"-phosphate (1.76% TO 2.25%) | 13674-84-5 | Acute Toxicity: orl-rat LD50:1500 mg/kg |
| Carbonic acid calcium salt (1:1) (23% TO 57%) | 471-34-1 | Acute Toxicity: orl-rat LD50:6450 mg/kg; Irritation: eye-rbt 750 ug/24H SEV; skn-rbt 500 mg/24H MOD |

| GHS Properties | Classification |
|--------------------------|---|
| Acute toxicity | EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard | EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met |
| 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 | | |
|---|------------|---|
| | CAS | NTP |
| Glass, oxide, chemicals as Glass wool fiber | NDA | Reasonably Anticipated to be Human Carcinogen |

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

SEV = Severe

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

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT | NDA | Not regulated | NDA | NDA | NDA |
| TDG | NDA | Not regulated | NDA | NDA | NDA |
| IMO/IMDG | NDA | Not regulated | NDA | NDA | NDA |
| ADN | NDA | Not regulated | NDA | NDA | NDA |
| ADR/RID | NDA | Not regulated | NDA | NDA | NDA |
| IATA/ICAO | NDA | Not regulated | NDA | NDA | NDA |

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 | | | | |
|--|------------|-----|-----|-----|
| Component | CAS | MA | NJ | PA |
| 2-Methylbutane | 78-78-4 | Yes | Yes | Yes |
| 2-Propanol, 1-chloro-, 2,2',2"-phosphate | 13674-84-5 | No | No | No |
| Carbonic acid calcium salt (1:1) | 471-34-1 | No | No | No |
| Glass, oxide, chemicals | 65997-17-3 | Yes | No | Yes |
| Pentane | 109-66-0 | Yes | Yes | Yes |

| Inventory | | | | | | |
|--|------------|------------|-------------|-----------|-----------|------|
| Component | CAS | Canada DSL | Canada NDSL | EU EINECS | EU ELNICS | TSCA |
| 2-Methylbutane | 78-78-4 | Yes | No | Yes | No | Yes |
| 2-Propanol, 1-chloro-, 2,2',2"-phosphate | 13674-84-5 | Yes | No | Yes | No | Yes |
| Carbonic acid calcium salt (1:1) | 471-34-1 | Yes | No | Yes | No | Yes |
| 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 |
| • Glass, oxide, chemicals as Glass wool fiber | | Uncontrolled product according to WHMIS classification criteria (listed under Glass wool); D2A (listed under Mineral wool fiber) |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Uncontrolled product according to WHMIS classification criteria |

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 |
| • Glass, oxide, chemicals as Glass wool fiber | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

Environment**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 |
| • Glass, oxide, chemicals as Glass wool fiber | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 | | 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 |
| • Pentane | 109-66-0 | F+ Xn N R:12-51/53-65-66-67 S:(2)-9-16-29-33-61-62 |
| • 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 | 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 | | (including mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers [or other mineral derived fibers] of average diameter 1 µm or less) |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |
| U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities | | |
| • 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. - CERCLA/SARA - Radionuclides and Their Reportable Quantities | | |
| • 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. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs | | |
| • 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. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs | | |
| • 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. - CERCLA/SARA - Section 313 - Emission 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 |
| • Glass, oxide, chemicals as Glass wool fiber | | Not Listed |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |
| U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing | | |
| • 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 |
|------------------------------------|----------|------------|

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 | | carcinogen, initial date 7/1/90 (inhalable and biopersistent) |
| • Carbonic acid calcium salt (1:1) | 471-34-1 | Not Listed |

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 |
| • 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

- 08/May/2014

Preparation Date

- 12/January/2012

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Key to abbreviations

NDA = No data available
