

1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name/designation: Alumasc Isogard Cover Board.

1.2 Relevant identified uses of the substance or mixture

Construction.

1.3 Manufacturer/Supplier

Supplier:
Alumasc Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG
Tel: +44 (0)1744 648400
e-mail: technical@alumascroofing.com

1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

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

Not applicable.

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 2021: Not classified.

2.2 Labels elements

Not applicable.

2.3 Other hazards

OSHA HCS 2021: 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 Labels elements

Not applicable.

2.3 Other hazards

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

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

12.7mm Polyiso foam core with a coated glass tissue facer.

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	26% TO 39%	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 13%	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	3% TO 4%	Ingestion/Oral-Rat LD50 1500 mg/kg	EU DSD/DPD: Self Clasified - Xn, R22 EU CLP: Self Classified - Acute Tox. 4, H302	NDA
2-Methylbutane	CAS:78-78-4 EC Number: 201-142-8	0.4% TO 0.7%	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	0.3% TO 0.6%	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.

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.

No specific actions or treatments recommended related to exposure to this material.

5. FIRE-FIGHTING 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.

Extinguishing media which must not be used for safety reasons:

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 fire-fighters

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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2 Environmental Precautions

No special precautions necessary.

6.3 Methods and material for containment and cleaning up

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

See Sections 8 & 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe 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

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

7.3 Specific end uses(s)

See Section 1.2.

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; 1770mg/m3 TWA	600 ppm TWA (listed under Pentane, all isomers)	600 ppm TWA (listed under Pentane, all isomers)	600 ppm TWA; 1770 mg/m3 TWA
	STELs	Not established	Not established	Not established	Not established	750 ppm STEL; 2210 mg/m3 STEL
2-Methylbutane (78-78-4)	TWAs	600 ppm TWA (listed under Pentane, all isomers)	600 ppm TWA; 1770mg/m3 TWA	600 ppm TWA (listed under Pentane, all isomers)	600 ppm TWA (listed under Pentane, all isomers)	Not established
Glass, oxide, chemicals as Glass wool fibre	TWAs	1 fibre/cm3 TWA (respirable fibres: 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 fibres) as Glass wool fibre	1 fibre/cm3 TWA as Glass wool fibre	1 fibre/cm3 TWA (fibres >5 µm, with an aspect ratio of >=3:1, as determined by the membrane filter method at 400- 450 times magnification (4 mm objective), using phase-contrast illumination, listed under Synthetic vitreous fibres) as Glass wool fibre	1 fibre/cm3 TWA (respirable fibres: #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 fibres) as Glass wool fibre	1 fibre/cm3 TWA (fibres >5 µm with a diameter <3 µm, aspect ratio >5:1) as Glass wool fibre
Carbonic acid calcium salt (1:1) (471-34-1)	TWAs	Not established	10 mg/m3 TWA	Not established	Not established	Not established

	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

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Glass, oxide, chemicals as Glass wool fibre	TWAs	3 fibre/cm ³ TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m ³ TWA (total mass) as Glass wool fibre	1 fibre/cm ³ TWA (respirable fibres: 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 fibres) as Glass wool fibre	3 fibre/cm ³ TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m ³ TWA (total mass) as Glass wool fibre	1 fibre/cm ³ 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)) as Glass wool fibre	2 fibre/cm ³ TWAEV (respirable, listed under Fibres - Artificial Vitreous Mineral Fibres) as Glass wool fibre
Carbonic acid calcium salt (1:1) (471-34-1)	TWAs	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)	Not established	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)	Not established	10 mg/m ³ TWAEV (total dust)

	Result	Canada Saskatchewan	Canada Yukon	Europe	NIOSH	OSHA
Pentane (109-66-0)	TWAs	600 ppm TWA	600 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 3000 mg/m ³ TWA	120 ppm TWA; 350 mg/m ³ TWA	1000 ppm TWA; 2950 mg/m ³ TWA
	STELs	Not established	750 ppm STEL; 2250 mg/m ³ STEL	Not established	Not established	Not established
	Ceilings	Not established	Not established	Not established	610 ppm Ceiling (15 min); 1800 mg/m ³ 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/m ³ TWA	Not established	Not established
Glass, oxide, chemicals as Glass wool fibre	TWAs	1 fibre/cm ³ TWA (respirable fibres, listed under Synthetic vitreous fibres)	30 mppcf TWA; 10 mg/m ³ TWA (respirable mass)	Not established	3 fibre/cm ³ TWA (fibres <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m ³ TWA (total)	Not established
		as Glass wool fibre	as Glass wool fibre		as Glass wool fibre	
Carbonic acid calcium salt (1:1) (471-34-1)	TWAs	10 mg/m ³ TWA (listed under Limestone)	30 mppcf TWA; 10 mg/m ³ TWA	Not established	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	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.

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Eye/face: Wear safety goggles.
Hands: Wear appropriate gloves.
Skin/body: Wear long sleeves and/or protective overalls 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.
STEL: Short Term Exposure Limits are based on 15-minute exposures.
NIOSH: National Institute of Occupational Safety and Health.
OSHA: Occupational Safety and Health Administration.
TWAEV: Time-Weighted Average Exposure Value.
TWA: Time-Weighted Averages are based on 8h/day, 40h/week.exposures

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-coloured mat with no odour
Colour	White	Odour	Odourless
Odour 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			
Vapour pressure	Data lacking	Vapour 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.

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.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Component Name	CAS	Data
Pentane (0.3% to 0.6%)	109-66-0	Acute Toxicity: orl-rat LD50:>2000 mg/kg; ihl-rat LC50:364 gm/m3/4H
2-Methylbutane (0.4% to 0.7%)	78-78-4	Acute Toxicity: ihl-rat LC50:280000 mg/m3/4H
2-Propanol, 1-chloro-, 2,2',2"-phosphate (3% to 4%)	13674-84-5	Acute Toxicity: orl-rat LD50:1500 mg/kg
Carbonic acid calcium salt (1:1) (26% to 39%)	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 fibres 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 fibre	NDA	Reasonably Anticipated to be Human Carcinogen

Key to abbreviations:

LC: Lethal concentration.
LD: Lethal dose.
SEV: Severe.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulation potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been conducted.

12.6 Other adverse effects

No studies have been found.

13. DISPOSAL CONSIDERATIONS

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

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 73/7 and the IBC Code

Not relevant.

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	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:

Labour:

Canada – WHMIS – Classification 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 fibre		Uncontrolled product according to WHMIS classification criteria (listed Under glass wool); D2A (listed under mineral wool fibre)
• Carbonic acid calcium soil (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 fibre		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 fibre		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 fibre		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 fibre		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 fibre		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 fibre		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 fibre		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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

EU - CLP (1272/2008) - Annex VI - table 3.2 – notes - substances & 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 fibre		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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

UNITED STATES:

Labour:

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – OSHA – Specially 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		(including mineral fibre emissions from facilities manufacturing or processing glass, rock or slag fibres [or other mineral derived fibres] of average diameter 1 µm or less)
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

UNITED STATES – CALIFORNIA:

Environment:

US – 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 fibre		Carcingen, initial date 71/90 (inhalable and biopersistent)
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

UNITED STATES – PENNSYLVANNIA:

Labour:

US – 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 fibre		Not listed
• Carbonic acid calcium salt (1:1)	471-34-1	Not listed

US – 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 fibre		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.

16. OTHER INFORMATION

Relevant phases (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.

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