

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

1.1 Product identifier

Trade name/designation: Caltech QC Glass Primer

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Base coat.

Recommended restrictions: Reserved for industrial and professional use.

1.3 Supplier details

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 Emergency telephone number

Association / Organisation: National Poisons Information Service
Emergency telephone numbers: 0344 892 0111 (Healthcare professionals only)
Other emergency telephone numbers Alumasc Building Products: +44 17 4464 8400
(Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP][1]:

Flam. Liq. 2; H225 Eye Irrit. 2; H319

2.2 Label elements

Hazard pictures:



Signal word:

Danger.

Hazardous component(s) to be indicated on label:

ethanol , ethyl acetate.

Hazard statements:

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.

Precautionary statements prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P337+P313: If eye irritation persists: Get medical advice/attention.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Precautionary statements disposal:

P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3 Other hazards

Not available.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

See 'Composition on ingredients' in Section 3.2.

3.2 Mixtures

Other data:

This mixture contains $\geq 1\%$ titanium dioxide (CAS 13463-67-7) The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10.

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
ethanol	CAS No.: 64-17-5 EC-No.: 200-578-6 Index-No.: 603-002-00-5 REACH No.:01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	90.0 - 95.0 % by weight
ethyl acetate	CAS No.: 141-78-6 EC-No.: 205-500-4 Index-No.: 607-022-00-5 REACH No.:01-2119475103-46-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	5.0 - 10.0 % by weight

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice:	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, get medical advice/ attention.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂), Foam, Water spray, Dry powder.

Extinguishing media which must not be used for safety reasons:

High volume water jet.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Vapours may form explosive mixtures with air. Provide sufficient air exchange and/or exhaust in work rooms.
Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Special protective equipment for firefighting:

In the event of fire, wear self-contained breathing apparatus.

Additional information on firefighting:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not allow run-off from fire-fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.
Use personal protective equipment.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.

6.4 Reference to other sections

Disposal considerations see also Section 13.

6.5 Additional information

Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling:

Processing may lead to evolution of flammable volatiles.
In case of insufficient ventilation, wear suitable respiratory equipment.
Handle and open container with care.
Avoid contact with skin and eyes.

Precautions:

Smoking, eating and drinking should be prohibited in the application area.
For personal protection see Section 8.
Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Suitable container:

Keep in a cool, well-ventilated place.
Keep in an area equipped with solvent resistant flooring.
Keep in properly labelled containers.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

TRGS 510:

3.

Recommended storage temperature:

Keep in a dry, cool place.

Advice on protection against fire and explosion:

Take precautionary measures against static discharges.
Vapours may form explosive mixture with air.
Use water spray to cool unopened containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

ethanol:

Great Britain		
Long term exposure value/ ppm	Long term exposure value/ mg/m3	Source
1000	1920	EH40/2005 Workplace exposure limits (2011)

DNEL	Target group	Exposure route	Exposure frequency	Source
1900 mg/m ³	Workers	inhale	Short-term effects Local	Company data
343 mg/kg	Workers	dermal	Long term effects systemic	Company data
950 mg/m ³	Workers	inhale	Long term effects systemic	Company data
950 mg/m ³	Consumers	inhale	Short-term effects Local	Company data
87 mg/kg	Consumers	Oral	Long term effects systemic	Company data
206 mg/kg	Consumers	dermal	Long term effects systemic	Company data
114 mg/m ³	Consumers	inhale	Long term effects systemic	Company data

PNEC	Target group	Exposure route	Source
0.63 mg/kg	Environment	Soil	Company data
0.96 mg/l	Environment	freshwater	Company data
3.6 mg/kg	Environment	freshwater sediment	Company data
0.79 mg/l	Environment	marine water	Company data
2.9 mg/kg	Environment	marine sediment	Company data
580 mg/l	Environment	STP	Company data

ethyl acetate:

Great Britain				
Long term exposure value/ ppm	Long term exposure value/ mg/m3	Short term exposure value / ppm	Short term exposure value / mg/m3	Source
200	734	400	1468	EH40/2005 Workplace exposure limits (2011)

Europe					
Long-term exposure value / mg/m3	Long-term exposure value / ppm	Short-term exposure value / g/m3	Short-term exposure value / ppm	Issuing date	Source
734	200	1468	400	2017/164	DIRECTIVE 2009/161/EU

DNEL	Target group	Exposure route	Exposure frequency	Source
734 mg/m ³	Workers	Inhalation	Long term effects systemic	Company data
734 mg/m ³	Workers	Inhalation	Long term effects Local	Company data
1486 mg/m ³	Workers	Inhalation	Acute Local effects	Company data
1486 mg/m ³	Workers	Inhalation	Acute Local effects	Company data
63 mg/kg	Workers	dermal exposure	Long term effects systemic	Company data
367 mg/m ³	Consumers	Inhalation	Long term effects systemic	Company data
367 mg/kg	Consumers	Inhalation	Long term effects Local	Company data
734 mg/m ³	Consumers	Inhalation	Acute systemic	Company data
734 mg/m ³	Consumers	Inhalation	Acute systemic	Company data
37 mg/kg	Consumers	dermal exposure	Long term effects systemic	Company data
4,5 mg/kg	Consumers	Oral	Long term effects systemic	Company data

PNEC	Exposure route	Source
0,26 mg/l	fresh water	Company data
0,22 mg/l	Soil	Company data
0,34 mg/kg	sediment	Company data
650 mg/l	Waste water pretreatment	Company data

butanone:

Great Britain				
Great Britain	Parameter	Test material	Sampling time	Source
70 µmol/L	butan-2-one	urine	End of shift	EH40/2005 Workplace exposure limits (2011)

Europe					
Long-term exposure value/ mg/ m3	Long-term exposure value/ ppm	Short-term exposure value / mg/ m3	Short-term exposure value / ppm	Issuing date	Source
600	200	900	300	2000/39	DIRECTIVE 2009/161/EU

DNEL	Target group	Exposure route	Exposure frequency	Source
600mg/m³	Workers	inhale	Long term effects systemic	Company data
1161 mg/kg	Workers	dermal	Long term effects systemic	Company data
31 mg/kg	Consumers	Oral	Long term effects systemic	Company data
412 mg/kg	Consumers	dermal	Long term effects systemic	Company data
106 mg/kg	Consumers	inhale	Long term effects systemic	Company data

PNEC	Exposure route	Source
55,8 mg/l	freshwater	Company data
55,8 mg/l	marine water	Company data
284,74	freshwater sediment	Company data
284,7 mg/kg	marine sediment	Company data
22,5 mg/kg	Soil	Company data
709 mg/l	Waste water treatment	Company data
PNEC	Exposure route	Source

methanol:

Great Britain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/ m3	Short-term exposure value / ppm	Short-term exposure value / mg/ m3	Note	Source
200	266	250	333	Sk	EH40/2005 Workplace exposure limits (2011)

Europe				
Long-term exposure value/ mg/m3	Long-term exposure value/ ppm	Note	Issuing date	Source
260	200	Skin	2006/15	DIRECTIVE 2009/161/EU

8.2 Exposure controls

8.2.1. Appropriate engineering Controls:	Ensure adequate ventilation, especially in confined areas. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn..
8.2.2. Personal protection:	    
Eye and face protection:	Tightly fitting safety goggles.

Skin protection:	Wear suitable protective equipment. Long sleeved clothing
Hands/feet protection:	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Unsuitable material: woven fabric, Leather gloves Suitable material: butyl-rubber Material thickness: 0,5 mm Break through time: >480 min Suitable material: Polyethylene (LLDPE) (Barrier" Fa.Ansell) Material thickness: 0,062 mm Break through time: >480 min
Body protection:	Wear suitable protective equipment. Long sleeved clothing
Respiratory protection:	Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Remarks:	Recommended Filter type: A2. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
General protective and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

Physical state:	Liquid	Density [g/cm³]	0,80 g/cm3
Form:	Liquid	Explosion limits [Vol-%]	The product itself has not been tested. ethanol
Colour:	colourless		
Odour:	like alcohol	Lower Explosive Limit (%):	2,5 %
Odour threshold:	Not available	Upper Explosive Limit (%):	15,0 %
pH (as supplied):	Not available	Vapour pressure (kPa):	not determined
Melting point/freezing point (°C):	Not determined	Vapour density (Air = 1):	not determined
Boiling point (°C):	77°C	Auto-ignition temperature (°C):	not determined
Flash point (°C):	9°C	Water solubility [g/l]	miscible
Evaporation rate [kg/(s m²)]:	not determined	Explosive properties	In use, may form flammable/explosive vapour-air mixture.

10. STABILITY AND REACTIVITY

10.3 Possibility of hazardous reactions

Risk of violent reaction.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents, Strong acids and strong bases, Alkali metals.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral toxicity [mg/kg]:

ethanol			
Value	Test criterion	Test species	Source
7060 mg/kg	LD50	rat	Company data

ethyl acetate			
Value	Test criterion	Test species	Source
5620 mg/kg	LD50	rat	Company data

butanone			
Value	Test criterion	Test species	Source
> 3300 mg/kg	LD50	rat	Company data

3-(Trimethoxysilyl)-1-propanamine			
Value	Test criterion	Test species	Source
2970 mg/kg	LD50	rat	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

ethanol			
Value	Test criterion	Test species	Source
15800 mg/kg	LD50	rabbit	Company data

ethyl acetate			
Value	Test criterion	Test species	Source
18000 mg/kg	LD50	rabbit	Company data

butanone			
Value	Test criterion	Test species	Source
5000 mg/kg	LD50	rabbit	Company data

3-(Trimethoxysilyl)-1-propanamine			
Value	Test criterion	Test species	Source
11300 mg/kg	LD50	rabbit	Company data

Inhalative toxicity [mg/l]

Hazardous ingredients

ethyl acetate				
Value	Test criterion	Test species	Exposure duration [h]	Source
56 mg/l	LC50	rat	8 h	Company data

LC50 Inhalation 4h for vapours [mg/l]

Hazardous ingredients

ethanol				
Value	Test criterion	Test species	Exposure duration [h]	Source
>117 mg/l	LC50	rat	4 h	Company data

ethyl acetate				
Value	Test criterion	Test species	Exposure duration [h]	Source
56 mg/l	LC50	rat	4 h	Company data

butanone				
Value	Test criterion	Test species	Exposure duration [h]	Source
34,5 mg/l	LC50	rat	4 h	Company data

Irritant effect on skin

Hazardous ingredients

ethyl acetate		
Value	Test species	Source
No skin irritation	rabbit	Company data

butanone	
Value	Source
Frequent or prolonged contact can strip the skin of its natural oils and dry it out, which can lead to skin irritation and skin inflammation.	Company data

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
Skin irritation	Company data

Irritant effect on eyes

Hazardous ingredients

ethyl acetate		
Value	Test species	Source
May irritate eyes.	rabbit	Company data

butanone	
Value	Source
Eye irritation	Company data

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
May cause irreversible eye damage.	Company data

Irritant effect on the respiratory tract

Hazardous ingredients

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
None known.	Company data

Sensitization

Hazardous ingredients

ethyl acetate			
Value	Measuring method	Test species	Source
No sensitization responses were observed.	OECD Test Guideline 406	guinea pig	Company data

butanone	
Value	Source
No sensitization responses were observed.	Company data

Carcinogenic effects Hazardous ingredients

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
No known effect.	Company data

Specific target organ toxicity (single exposure) [mg/kg]

Hazardous ingredients

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
no data available	Company data

11.2 Additional information

Experience in practice:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish [mg/l]:

Hazardous ingredients:

ethanol				
Value	Test criterion	Test species	Exposure duration [h]	Source
14.200-15.400 mg/l	LC50	Leuciscus idus (Golden orfe)	48 h	Company data

ethyl acetate				
Value	Test criterion	Test species	Exposure duration [h]	Source
230 mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	Company data

butanone				
Value	Test criterion	Exposure duration [h]	Source	
>3000 mg/l	LC50	96 h	Company data	

3-(Trimethoxysilyl)-1-propanamine					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
934 mg/l	LC50	Brachydanio rerio (zebra fish)	OECD Test Guideline 203	96 h	Company data

Toxicity to daphnia [mg/l] Hazardous ingredients

ethanol				
Value	Test criterion	Test species	Exposure duration [h]	Source
9268 mg/l	EC50	Daphnia magna (Water flea)	48 h	Company data

ethyl acetate				
Value	Test criterion	Test species	Exposure duration [h]	Source
717 mg/l	EC50	Daphnia magna (Water flea)	48 h	Company data

butanone				
Value	Test criterion	Exposure duration [h]	Source	
1382 mg/l	EC50	48 h	Company data	

3-(Trimethoxysilyl)-1-propanamine					
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source
331 mg/l	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	Company data

Toxicity to algae [mg/l] Hazardous ingredients

ethanol					
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source
275 mg/l	EC50	Chlorella vulgaris (Fresh water algae)	72 h	OECD Test Guideline 201	Company data

ethyl acetate	
Value	Source
3300 mg/l	Company data

3-(Trimethoxysilyl)-1-propanamine					
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source
1001 mg/l	IC50	Pseudokirchneriella sub-capitata	72 h	OECD Test Guideline 201	Company data

NOEC (daphnia) [mg/l]

Hazardous ingredients

ethyl acetate		
Value	Test species	Source
2,4 mg/l	Daphnia magna (Water flea)	Company data

NOEC (algae) [mg/l]

Hazardous ingredients

ethyl acetate			
Value	Test species	Measuring method	Source
> 101 mg/l	Desmodesmus subspicatus	OECD Test Guideline 201	Company data

12.2 Persistence and degradability

Biodegradability:

Hazardous ingredients:

ethanol	
Value	Source
Readily biodegradable	Company data

ethyl acetate	
Value	Source
Readily biodegradable.	Company data

butanone	
Value	Source
Readily biodegradable.	Company data

3-(Trimethoxysilyl)-1-propanamine	
Value	Source
Not readily biodegradable.	Company data

12.3 Bioaccumulation potential

Bioaccumulation:

Hazardous ingredients:

ethyl acetate	
Value	Source
Bioaccumulation slight	Company data

butanone	
Value	Source
Does not bioaccumulate.	Company data

12.7 Other harmful effects

Further information on ecology

See also section 12.1

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Considerations:	Disposal of this product and its packaging must comply with all applicable environmental protection and waste disposal legislation, including any requirements set by local authorities. Any unwanted or non-recyclable material should be disposed of through a licensed waste disposal contractor. Transportation of such waste may be subject to ADR (International Carriage of Dangerous Goods by Road) regulations and must be managed in accordance with those requirements.
Waste code:	Uncured product: 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances. Cured product inert residue: 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 Empty metal paint tins with only hardened, inert residue: 15 01 04 metallic packaging
Special precautions:	This material and its container must be disposed of in a safe way. Caution should be exercised when handling empty containers that have not been properly cleaned or rinsed, as they may retain hazardous residues. Spillage and wash water from cleaning tools must be prevented from entering soil, watercourses, drains, or sewer systems. Empty containers should be directed to authorised waste disposal or appropriate local recycling facilities.
Further information available via:	https://www.alumascroofing.com/downloads/disposal-guides/ 

14. TRANSPORT INFORMATION

Labels required:

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1170	1170	1170
14.2 Description of the goods	ETHANOL SOLUTION	ETHANOL SOLUTION	ETHANOL SOLUTION
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II
Labels			
Risk No.	33		
Category	2		
Factor	3		
Classification code	F1		
Tunnel restriction code	D/E		
EmS		F-E; S-D	
Stowage category		A	
UN proper shipping name	UN 1170 ETHANOL SOLUTION	UN 1170 ETHANOL SOLUTION	UN 1170 Ethanol solution

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not relevant.

15. REGULATORY INFORMATION

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

Additional regulations:

Classification in compliance with the Industrial Safety Regulation:

Additionally, observe any national regulations!
highly flammable.

16. OTHER INFORMATION

Full text Risk and Hazard codes:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Wording of the hazard classes:

Flam. Liq.: Flammable liquid.

Eye Irrit.: Serious eye irritation.

STOT RE: Specific target organ toxicity - repeated exposure.

**Classification for mixtures and
used evaluation method according
to regulation (EC) 1272/2008
[CLP]:**

Classification	Evaluation
Flam. Liq. 2; H225	Calculated
Eye Irrit. 2; H319	Calculated

SDS version summary:

Version	Date of Update	Section Updated
1.1	03/04/2023	Template Change
2.0	28/04/2026	Section 13 update

Other information:

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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