

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Glass Primer

Ref : M707FR

Revision date : 21.11.2016

Version : 2.0 /en

ALUMASC

ROOFING SYSTEMS

Print date : 26.01.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name Caltech QC Glass Primer

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

Relevant identified uses base coat

1.3 Details of the supplier of the safety data sheet

Address Alumasc Exterior
Building Products Ltd
White House Works,
Bold Road, Sutton
St Helens, WA9 4JG
Telephone : +44 (0) 1744 648 400

Responsible Department Technical Department

E-mail (competent person) roofing@alumasc-exteriors.co.uk

1.4 Emergency telephone number

Emergency telephone number +44 (0) 1744 648 400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 Flam. Liq. 2; H225 Eye Irrit. 2; H319

2.2 Label elements

*Hazard pictogram



GHS02



GHS07

Signal word

Danger

*H-statement(s)

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

*P-statement(s)

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P337+P313: If eye irritation persists: Get medical advice/attention.

SECTION3:Composition/informationoningredients

3.2 Mixture

Chemical characterization

Ethyl acetate

Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
ethanol, ethyl alcohol	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

SECTION4:Firstaidmeasures

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.

If inhaled

Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

In case of 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.

In case of eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed

Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

SECTION5:Firefightingmeasures

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 firefighters

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.

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SECTION6:Accidentalreleasemeasures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

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

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

Methods for cleaning up

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

6.5 Additional information

Other information

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

SECTION7:Handlingandstorage

7.1 Precautions for safe handling

Advice on 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.

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Storage must be in accordance with the BetrSichV (Germany). 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

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SECTION8:Exposurecontrols/personalprotection

8.1 Control parameters

ETHANOL

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Source
1000	1920	19

Source : 19 - EH40/2005 Workplace exposure limits (2011)

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DNEL

Value	Target group	Exposure route	Exposure frequency	Source
1900 mg/m ³	Workers	inhale	Short-term effects Local	100
343 mg/kg	Workers	dermal	Long term effects systemic	100
950 mg/m ³	Workers	inhale	Long term effects systemic	100
950 mg/m ³	Consumers	inhale	Short-term effects Local	100
87 mg/kg	Consumers	Oral	Long term effects systemic	100
206 mg/kg	Consumers	dermal	Long term effects systemic	100
114 mg/m ³	Consumers	inhale	Long term effects systemic	100

Source : 100 - Firmendaten

PNEC

Value	Target group	Exposure route	Source
0,63 mg/kg	Environment	Soil	100
0,96 mg/l	Environment	freshwater	100
3,6 mg/kg	Environment	freshwater sediment	100
0,79 mg/l	Environment	marine water	100
2,9 mg/kg	Environment	marine sediment	100
580 mg/l	Environment	STP	100

Source : 100 - Firmendaten

ETHYL ACETATE

Great Britain

Long-term exposure value/ ppm	Short-term exposure value / ppm	Source
200	400	19

Source : 19 - EH40/2005 Workplace exposure limits (2011)

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
734 mg/m ³	Workers	Inhalation	Long term effects systemic	100
734 mg/m ³	Workers	Inhalation	Long term effects Local	100
1486 mg/m ³	Workers	Inhalation	Acute Local effects	100
63 mg/kg	Workers	dermal exposure	Long term effects systemic	100
367 mg/m ³	Consumers	Inhalation	Long term effects systemic	100
367 mg/kg	Consumers	Inhalation	Long term effects Local	100
734 mg/m ³	Consumers	Inhalation	Acute systemic	100
37 mg/kg	Consumers	dermal exposure	Long term effects systemic	100
4,5 mg/kg	Consumers	Oral	Long term effects systemic	100

Source : 100 - Firmendaten

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PNEC

Value	Exposure route	Source
0,26 mg/l	fresh water	100
0,22 mg/l	Soil	100
0,34 mg/kg	sediment	100
650 mg/l	Waste water pretreatment	100

Source : 100 - Firmendaten

8.2 Exposure controls

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).

Hand 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

Eye protection

Tightly fitting safety goggles

Skin and body protection

Wear suitable protective equipment. Long sleeved clothing

General protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. 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.

Engineering measures

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

liquid

Form

liquid

Colour

colourless

Odour

fruit-like

*Boiling point [°C]

77 °C

*Flash point [°C]

9 °C

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Evaporation rate [kg/(s*m ²)]	not determined
*Explosion limits [Vol-%]	
Lower limit :	2,5 vol. %
Upper limit :	15 vol. %
Vapour density	not determined
*Density [g/cm ³]	0,795 g/cm ³
Partition coefficient n-octanol /water (log P O/W)	not determined
Autoignition temperature [°C]	not determined
Explosive properties	Not relevant
Risk of explosion.	Vapours may form explosive mixtures with air.
Oxidising properties	Not relevant

9.2 Other information

Ignition temperature [°C]	not determined
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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions	Risk of violent reaction.
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10.4 Conditions to avoid

Conditions to avoid	Heat, flames and sparks.
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10.5 Incompatible materials

Materials to avoid	Strong oxidizing agents, Strong acids and strong bases, Alkali metals
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

ETHANOL

Oral toxicity [mg/kg]	Test criterion	Test species	Source
7060 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
15800 mg/kg	LD50	rabbit	100

Source : 100 - Firmendaten

LC50 Inhalation 4h for vapours [mg/l]	Test criterion	Test species	Exposure duration	Source
>117 mg/l	LC50	rat	4 h	100

Source : 100 - Firmendaten

ETHYL ACETATE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
5620 mg/kg	LD50	rat	100

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Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
18000 mg/kg	LD50	rabbit	100

Source : 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Source
56 mg/l	LC50	rat	8 h	100

Source : 100 - Firmendaten

LC50 Inhalation 4h for vapours [mg/l]	Test criterion	Test species	Exposure duration	Source
56 mg/l	LC50	rat	4 h	100

Source : 100 - Firmendaten

<i>Irritant effect on skin</i>	<i>No skin irritation</i>
<i>Test species</i>	<i>rabbit</i>
<i>Irritant effect on eyes</i>	<i>May irritate eyes.</i>
<i>Test species</i>	<i>rabbit</i>
<i>Sensitization</i>	<i>No sensitization responses were observed.</i>
<i>Measuring method</i>	<i>OECD Test Guideline 406</i>
<i>Test species</i>	<i>guinea pig</i>

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

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

ETHANOL

Toxicity to fish [mg/l]	Source
13400 - 15100 mg/l	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Source
9268	100

Source : 100 - Firmendaten

ETHYL ACETATE

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
230 mg/l	LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	96 h	100

Source : 100 - Firmendaten

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Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
717 mg/l	EC 50	Daphnia magna (Water flea)	48 h	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Source
3300 mg/l	100

Source : 100 - Firmendaten

NOEC (daphnia) [mg/l]	Test species	Exposure duration	Source
2,4	Daphnia magna (Water flea)	21 day(s)	100

Source : 100 - Firmendaten

NOEC (algae) [mg/l]	Test species	Measuring method	Source
> 101	Desmodesmus subspicatus	OECD Test Guideline 201	100

Source : 100 - Firmendaten

Biodegradability Readily biodegradable.

Bioaccumulation Bioaccumulation slight

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology See also section 12.1

SECTION 13: Disposal considerations




13.1 Waste treatment methods

Disposal considerations According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code 07 02 04* other organic solvents, washing liquids and mother liquors

Uncleaned empty packaging -

SECTION 14: Transport information

	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
14.2 UN proper shipping name		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		

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
Factor	3		
Classification Code	F1		
Tunnel restriction code	D/E		
EmS		F-E;S-D	
Stowage category		A	

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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

Additional regulations: Additionally, observe any national regulations!

SECTION 16: Other information

Relevant H-phrases: 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 SE: Specific target organ toxicity – single exposure

Modifications since last version: Modifications of the previous version are denoted with an asterisk ().

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

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

Department issuing safety data sheet: Environmental Department

Further information: Full text of R-phrases referred to under sections 2 and 3

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.