

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

Commercial Product Name : Caltech QC Cleaner

Ref: M719FR

Date : 15.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 25.03.2015

Print date : 27.01.2016

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

1.1 Product identifier

*Commercial Product Name Caltech QC Cleaner

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

Relevant identified uses cleaning agent

1.3 Details of the supplier of the safety data sheet

Address Alumasc Exterior Building Products Ltd
White House Works, Bold Road
Sutton, St Helen, 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) 01744 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 STOT SE 3; H336

2.2 Label elements

Hazard pictogram



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label

ethyl acetate

H-statement(s)

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

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*P-statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P312: Call a POISON CENTER/doctor if you feel unwell.

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

Further information

EUH066: Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization

Ethyl acetate

Ingredient		Classification (EC) 1272/2008	Concentration
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	>= 95.0 - 100.0 % by weight

SECTION 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.

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.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention

Treat symptomatically.

SECTION 5: Firefighting 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.

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

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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.

SECTION 6: Accidental release measures

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

6.4 Reference to other sections

Reference to other sections

Disposal considerations See also section 13

6.5 Additional information

Other information

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

SECTION 7: Handling and storage

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

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

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.

Suitable material :

Nitriles

Unsuitable material :

woven fabric, Leather gloves

Material thickness :

0,38 mm

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Break through time :	<25 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	flüssig
Form	liquid
Colour	water light
Odour	fruit-like
*Melting point [°C] / Freezing point [°C]	approx. -84°C
*Boiling point [°C]	77
*Flash point [°C]	-4°C
Evaporation rate [kg/(s*m ²)]	not determined
*Explosion limits [Vol-%]	
Lower limit :	< 2,1% vol
Upper limit :	11,5% vol
*Vapour pressure [kPa]	100 hPa
Vapour density	not determined
*Density [g/cm ³]	appr. 0,9g/cm ³
Temperature :	20°C
*Water solubility [g/l]	61g/l
*Partition coefficient n-octanol /water (log P O/W)	0,60 not determined
Autoignition temperature [°C]	not determined
*Viscosity, dynamic [kg/(m*s)]	approx. 0,44mPa.s
Temperature :	20°C
Explosive properties	Not relevant
Oxidising properties	Not relevant
9.2 Other information	
Ignition temperature [°C]	appr. 460 °C
Evaporation rate (ether = 1) :	2,9

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions Risk of violent reaction.

10.4 Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid Strong oxidizing agents, Strong acids and strong bases, Alkali metals

SECTION 11: Toxicological information

11.1 Information on toxicological effects

ETHYL ACETATE

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

*Oral toxicity [mg/kg]

Value	Test criterion	Test species
5600 mg/kg	LD50	rat

*Dermal toxicity [mg/kg]

Value	Test criterion	Test species
18000 mg/kg	LD50	rabbit

*Inhalative toxicity [mg/l]

Value	Test criterion	Test species	Exposure duration
58 mg/l	LC50	rat	8 <PHR>h</PHR>

*Irritant effect on skin

Value	Test species
No skin irritation	rabbit

*Irritant effect on eyes

Value	Test species
Mild eye irritant	rabbit

*Sensitization

Value	Measuring method	Test species
No sensitization responses were observed.	OECD Test Guideline 406	guinea pig

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

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SECTION 12: Ecological information

12.1 Toxicity

ETHYL ACETATE

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

Bioaccumulation Bioaccumulation slight

*Toxicity to fish [mg/l] 230 mg/l

*Toxicity to daphnia [mg/l] 717 mg/l

*Toxicity to algae [mg/l] 3300 mg/l

12.2 Persistence and degradability

*Biodegradability 100 %

Remarks : Readily biodegradable.

Duration : 28 day(s)

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 070204 - other organic solvents, washing liquids and mother liquors

Uncleaned empty packaging -

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SECTION 14: Transport information

	*Land transport ADR/RID	*Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1173	1173	1173
14.2 Description of the goods	ETHYL ACETATE	ETHYLACETAT	Ethylacetat
14.2 UN proper shipping name		ETHYL ACETATE	Ethyl acetate
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II

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	*Land transport ADR/RID	*Marine transport IMDG	Air transport ICAO/IATA
Labels	3 	3 	3 - Flammable Liquid 
Risk No.	33		
Category	2		
Factor	3		
Classification Code	F1		
Tunnel restriction code	D/E		
EmS		F-E;S-D	
Stowage category		B	

14.7 Transport in bulk according to Annex II of MARPOL73/78 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.
EUH066: Repeated exposure may cause skin dryness or cracking.

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	
STOT SE 3; H336	

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.