

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

### 1.1 Product identifier

Trade name/designation: Caltech QC Cleaner.

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

Relevant identified uses: Cleaning agent.

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](mailto: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 STOT SE 3; H336.

### 2.2 Label elements

Hazard pictures:



Signal word:

**Danger.**

Hazardous component(s) to be indicated on label:

Ethyl Acetate.

Hazard statements:

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

Precautionary statements prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary statements response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.

Precautionary statements storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Further information:

EUH066: Repeated exposure may cause skin dryness or cracking.

## 2.3 Other hazards

Not available.

## 3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

### 3.1 Substances

Ingredient	Numbers	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

## 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.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
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.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed.

Immediate medical attention. Treat symptomatically.

## 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.  
Fire will produce dense black smoke containing hazardous combustion products (see heading 10). 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

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

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

### 6.4 Reference to other sections

Disposal considerations - see 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:**

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

**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

**Suitable container:**

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

**TRGS 510:**

3.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Ethyl Acetate:


Great Britain		
Long-term exposure value / ppm	Short-term exposure value / ppm	Source
200	400	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
734	200	1468	400	2017/164	DIRECTIVE 2009/161/EU

DNEL	Target group	Exposure route	Exposure frequency	Source
734 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects systemic	Company data
734 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects Local	Company data
1486 mg/m <sup>3</sup>	Workers	Inhalation	Acute Local effects	Company data
1486 mg/m <sup>3</sup>	Workers	Inhalation	Acute Local effects	Company data
63 mg/kg	Workers	Dermal exposure	Long term effects systemic	Company data
367 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects systemic	Company data
367 mg/kg	Consumers	Inhalation	Long term effects Local	Company data
734 mg/m <sup>3</sup>	Consumers	Inhalation	Acute systemic	Company data
734 mg/m <sup>3</sup>	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 pre-treatment	Company data

### 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:	<p>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.</p> <p>Unsuitable material    Woven fabric, Leather gloves                      Suitable material    Nitriles                      Material thickness    0,38 mm                      Break through time    &lt;25 min</p>
Body protection:	See Other Protection below.

Respiratory protection:	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). 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.
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

<b>Physical state:</b>	Liquid	<b>Vapour density (Air = 1):</b>	Not determined
<b>Form:</b>	Liquid	<b>Relative density [g/cm<sup>3</sup>]:</b>	ca.0,90g/cm <sup>3</sup>
<b>Colour:</b>	Colourless	<b>Temperature [°C]:</b>	20 °C
<b>Odour:</b>	Fruit-like	<b>Solubility in water [g/l]:</b>	61g/l
<b>Odour threshold:</b>	50 ppm	<b>Temperature [°C]:</b>	20°C
<b>pH (as supplied):</b>	Not available	<b>Partition coefficient n-octanol/water (log P O/W):</b>	0,60
<b>Melting point/freezing point (°C):</b>	-84°C	<b>Autoignition temperature [°C]:</b>	Not determined
<b>Initial boiling point and boiling range (°C):</b>	77°C	<b>Viscosity, dynamic [kg/(m s)]:</b>	Ca.0,44 mPa.s
<b>Flash point (°C):</b>	-4°C	<b>Temperature [°C]:</b>	20°C
<b>Evaporation rate [kg/(s m<sup>2</sup>)]:</b>	Not determined	<b>Explosive properties:</b>	In use, may form flammable / explosive vapour-air mixture
<b>Explosion limits [Vol-% ]</b>		<b>Oxidising properties:</b>	Not relevant
<b>Lower Explosive Limit (%):</b>	2,1 vol. %		
<b>Upper Explosive Limit (%):</b>	11,5 vol. %		
<b>Vapour pressure (kPa):</b>	100 hPa		
<b>Temperature [°C]:</b>	20 °C		

### 9.2 Other information

Ignition temperature [°C]: 460°C.

## 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]:	5600 mg/kg.
Test criterion:	LD50.
Test species:	Rat.

**Dermal toxicity [mg/kg]:**

**Hazardous ingredients:**

Ethyl Acetate			
Value	Test criterion	Test species	Source
18000 mg/kg	LD50	Rabbit	Company data

Inhalative toxicity [mg/l]: 18000 mg/kg.  
Test criterion: LC50.  
Test species: Rat.  
Exposure duration [h]: 8 h.

**LC50 Inhalation 4h for vapours [mg/l]:**

**Hazardous ingredients:**

Ethyl Acetate			
Value	Test criterion	Test species	Source
56mg/l	LD50	Rat	Company data

**Irritant effect on skin:**

**Hazardous ingredients:**

Methyl Methacrylate		
Value	Test species	Source
Irritating	Rabbits	Company data

Irritant effect on skin: No skin irritation.  
Test species: Rabbit.  
Irritant effect on eyes: Mild eye irritant.  
Test species: Rabbit.  
Sensitization: No sensitization responses were observed.  
Measuring method: OECD Test Guideline 406.  
Test species: 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.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity to fish [mg/l]: 230 mg/l.  
Toxicity to daphnia [mg/l]: 717 mg/l.  
Toxicity to algae [mg/l]: 3300 mg/l.

**NOEC (daphnia) [mg/l]**

**Hazardous ingredients:**

Ethyl Acetate			
Value	Test species	Exposure duration [h]	Source
2,4 mg/l	Daphnia magna (water flea)	21 day(s)	Company data

**NOEC (algae) [mg/l]:**

**Hazardous ingredients:**

Ethyl Acetate			
Value	Test species	Measuring method	Source
> 101 mg/l	Desmodesmus subspicatus	OECD Test Guideline 210	Company data

**12.2 Persistence and degradability**

Biodegradability: 100%.  
Duration: 28 day(s).  
Remarks: Readily biodegradable.

### 12.3 Bioaccumulation potential

#### Bioaccumulation

##### Hazardous ingredients:

Ethyl Acetate	
Value	Source
Bioaccumulation slight	Company data

### 12.5 Results of PBT and vPvB assessment

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.




## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product / packaging disposal:	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:	The return of packaging materials is regulated by the Interseroh system.

## 14. TRANSPORT INFORMATION

#### Labels required:

	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	ETHYL ACETATE	ETHYL ACETATE
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		
SP 640:	640D		
Tunnel restriction code:	D/E		
EmS:		F-E; S-D	
Stowage category:		B	
UN proper shipping name:	ETHYL ACETATE	ETHYL ACETATE	ETHYL ACETATE

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

Not relevant.



