

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

1.1 Product identifier

Trade name/designation: Caltech QC SP Primer.

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

Relevant identified uses: Base coat.

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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Flam. Liq. 3; H226 : Acute Tox. 4; H312 : Acute Tox. 4; H332 : Skin Irrit. 2; H315 : Eye Irrit. 2; H319 : STOT SE 3; H335 : STOT RE 2; H373 : Asp. Tox. 1; H304.

Classification according to Directive 67/548/EEC/1999/45/EEC:

R10 R66 R67 N; R51/53.

2.2 Labelling according to Regulation (EU) 1272/2008



GHS02



GHS07



GHS08

Hazard pictures:

Signal word:

Danger.

Hazardous component(s) to be Indicated on label:

Xylene, Ethylbenzene.

Hazard statements:

H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312+H332: Harmful in contact with skin or if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P331: Do NOT induce vomiting.
P337+P313: If eye irritation persists: Get medical advice/attention.

Further information: EUH205: Contains epoxy constituents. May produce an allergic reaction.

Special labelling for certain preparations: Contains epoxy constituents. See information supplied by the manufacturer.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

Single part primer for Single Ply substrates.

3.2 Mixture

Chemical characterization:

Solvent mixture.

Hazardous ingredients:

Ingredient		Classification (EC) 1272/2008	Concentration
xylene	CAS No: 1330-20-7 EC-No: 215-535-7 Index-No: 601-022-00-9 REACH No: 01-2119488216-32-XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	75.0 - 80.0 % by weight
ethylbenzene	CAS No: 100-41-4 EC-No: 202-849-4 Index-No: 601-023-00-4 REACH No: 01-2119489370-35-XXXX	Flam. Liq. 2; H225 Acute Tox. 4 ; H332	15.0 - 20.0 % by weight
toluene	CAS No: 108-88-3 EC-No: 203-625-9 Index-No: 601-021-00-3 REACH No: 01-2119471310-51-XXXX	Flam. Liq. 2; H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2 ; H373 Skin Irrit. 2; H315 STOT SE 3; H336	0.1 - 1.0 % 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.
If inhaled:	Move to fresh air. If symptoms persist, call a doctor. 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 doctor immediately.

4.2 -

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

High volume water jet.

5.2 Special hazards arising from the substance or mixture

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

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

6.3 Methods and materials 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 also 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

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. Smoking, eating and drinking should be prohibited in the application area. For personal protection see Section 8. Observe label precautions. 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 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: 3.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Xylene:

Great Britain:

Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Source
50	220	100	441	Can be absorbed through the skin	19

Source: 19 - 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	Note	Issuing date	Source
221	50	442	100	Skin	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU.

DNEL:

Value	Target group	Exposure route	Exposure frequency	Source
77 mg/m ³	Workers	Inhale	Long-term effects systemic local	100
289 mg/m ³	Workers	Inhale	Short-term effects systemic local	100
174 mg/m ³	Workers	Dermal	Short-term effects local	100
174 mg/m ³	Consumers	Inhale	Short-term effects local + systemic	100
14,8 mg/m ³	Consumers	Inhalation	Long-term effects systemic	100
1,6 mg/kg	Consumers	Oral	Long-term effects systemic	100
108 mg/kg	Consumers	Dermal	Long-term effects systemic	100

Source: 100 – Firmendaten.

PNEC:

Value	Exposure route	Source
0,327 mg/l	Freshwater	100
12,46 mg/kg	Freshwater sediment	100
2,31 mg/kg	Soil	100
6,58 mg/l	Wastewater treatment	100

Source: 100 – Firmendaten.

Ethylbenzene:

Great Britain:

Long-term exposure value / ppm	Long-term exposure value / mg/m3	Short-term exposure value / ppm	Short-term exposure value / mg/m3	Remarks	Source
100	441	125	552	Can be absorbed through the skin	19

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

Europe:

Long-term exposure value / mg/m ³	Long-term exposure value / ppm	Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Note	Issuing date	Source
442	100	884	200	Skin	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU.

DNEL:

Value	Target group	Exposure route	Exposure frequency	Source
77 mg/m ³	Workers	Inhalation	Long-term effects systemic	100
180 mg/kg	Workers	Dermal exposure	Long-term effects systemic	100

Source: 100 – Firmendaten.

PNEC:

Value	Exposure route	Source
0,1 mg/l	Freshwater	100
0,01 mg/l	Marine water	100
0,1 mg/l	Continuous release	100
9,6 mg/l	Wastewater pre-treatment	100
13,7 mg/kg	Freshwater sediment	100
1,37 mg/kg	Marine sediment	100
2,68 mg/kg	Soil	100

Source: 100 – Firmendaten.

Toluene:

Great Britain:

Long-term exposure Value / ppm	Long-term exposure value / mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Remarks	Source
50	191	100	384	Can be absorbed through the skin	19

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

Europe:

Long-term exposure value / mg/m ³	Long-term exposure value / ppm	Short-term exposure value / mg/m ³	Short-term exposure value / ppm	Note	Issuing date	Source
192	50	384	100	Skin	2006/15	24

Source: 24 - DIRECTIVE 2009/161/EU.

DNEL:

Value	Target group	Exposure route	Exposure frequency	Source
192 mg/m ³	Workers	Inhale	Long-term effects systemic local	100
384 mg/m ³	Workers	Inhale	Acute systemic local	100
384 mg/kg	Workers	Dermal	Long-term effects systemic	100
56,5 mg/m ³	Consumers	Inhale	Local systemic	100
226 mg/m ³	Consumers	Inhale	Acute systemic local	100
226 mg/cm ²	Consumers	Dermal	Long-term effects systemic	100
8,13 mg/kg	Consumers	Oral	Long-term effects systemic	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.
Breakthrough time:	<25 mins.
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 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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form:	Liquid.
Colour:	Yellowish.
Odour:	Solvent.
Boiling point [°C]:	Approx. 1.38°C.
Flash point [°C]:	25-30°C.
Evaporation rate [kg/(s*m ²)]:	Not determined.
Explosion limits [Vol-%]:	
Lower limit:	1,7% vol.
Upper limit:	7,5% vol.
Vapour pressure [kPa]:	1,0.
Temperature:	20°C.
Vapour density:	Not determined.
Density [g/cm ³]:	Approx. 0,87 g/cm ³ .
Temperature:	20°C.
Water solubility [g/l]:	
Remarks:	Immiscible.
Partition coefficient n-octanol/water (log P O/W):	Not determined.
Autoignition temperature [°C]:	Not determined.
Viscosity, dynamic [kg/(m*s)]:	Approx. 4-7 mPa.s.
Temperature:	20°C.
Explosive properties:	Not relevant.
Oxidising properties:	Not relevant.

9.2 Other information

Ignition temperature [°C]:	>450°C.
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10. STABILITY AND REACTIVITY

10.1 -

10.2 -

10.3 Possibility of hazardous reactions

Risk of violent reaction.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Materials to avoid

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Hazardous ingredients:

Xylene:

Oral toxicity [mg/kg]	Test criterion	Test species	Source
>3523 mg/kg	LD50	Rat	100

Source: 100 – Firmendaten.

Dermal toxicity [mg/kg]	Test criterion	Remarks	Source
1100 mg/kg	LD50	Chemical Safety Assessment	100

Source: 100 – Firmendaten.

LC50 Inhalation 4h for gases [ppmV]	Test criterion	Test species	Source
5000 ppm	LC50	Rat	100

Source: 100 – Firmendaten.

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

Source: 100 – Firmendaten.

Irritant effect on skin:	Irritating.
Irritant effect on eyes:	Irritating, causes serious eye irritation.
Sensitization:	Negative.
Dermal absorption data:	Dermal absorption possible.

Specific target organ toxicity (single exposure) [mg/kg]	Source
Causes respiratory tract irritation	100

Source: 100 – Firmendaten.

Ethylbenzene:

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 3500 mg/kg	LD50	Rat	100

Source: 100 – Firmendaten.

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
15400	LD50	Rat	100

Source: 100 – Firmendaten.

Inhalative toxicity [mg/l]	Test criterion	Test species	Source
17,65	LC50	Rat	100

Source: 100 – Firmendaten.

LC50 Inhalation 4h for vapours [mg/l]	Source
17,65	100

Source: 100 – Firmendaten.

Irritant effect on skin: Mild skin irritation.
Irritant effect on eyes: Weakly.
Dermal absorption data: Dermal absorption possible.
Solvents may degrease the skin.

Toluene:

Oral toxicity [mg/kg]	Test criterion	Test species	Source
5000 mg/kg	LD50	Rat	100

Source: 100 – Firmendaten.

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
12124	LD50	Rabbit	100

Source: 100 – Firmendaten.

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

Source: 100 – Firmendaten.

11.2 Additional information

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 Ecological information

Toxicity:

Hazardous ingredients:

Xylene:

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
16,9	LC50	Carassius auratus (goldfish)	96 h	2

Source: 2 – SimChem.

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
1,1	EC50	Daphnia magna (water flea)	48 h	2

Source: 2 – SimChem.

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
2,2	LC50	Algae (mg/l)	72 h	2

Source: 2 – SimChem.

Ready degradability.

Ethylbenzene:

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
4,2	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	100

Source: 100 – Firmendaten.

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
1,8	EC50	Daphnia magna (water flea)	48 h	100

Source: 100 – Firmendaten.

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
4,6	EC50	Selenastrum capricornutum (green algae)	72 h	100

Source: 100 – Firmendaten.

Ready degradability.

Toluene:

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
1,1-10 mg/l	LC50	Fish (mg/l)	96 h	100

Source: 100 – Firmendaten.

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
1,1-10 mg/l	EC50	Daphnia (mg/l)	48 h	100

Source: 100 – Firmendaten.

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
>100 mg/l	EC50	Algae (mg/l)	96 h	100

Source: 100 – Firmendaten.

Ready degradability.

12.2 -

12.3 -

12.4 -

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

See also Section 12.1.

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 other liquors.

Uncleaned empty packaging: -

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1307	1307	1307
14.2 Description of the goods	PAINT	PAINT	PAINT
14.3 UN proper shipping name		PAINT	PAINT
14.4 Transport hazard class(es)	3	3	3
14.5 Packaging group	III	III	III
Labels	3 	3 	3 

Risk No.	30		
Category	3		
Factor	1		
Classification code	F1		
Tunnel restriction code	D/E		
Remarks	Solution	Solution	Solution
EmS		F-E;_S-D	
Stowage category		A	

14.6 -

14.7 Transport in bulk according to Annex II of MARPOL73/78 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:

Additionally, observe any national regulations!

16. OTHER INFORMATION

Relevant H-phrases:

H225:	Highly flammable liquid and vapour.
H226:	Flammable liquid and vapour.
H304:	May be fatal if swallowed and enters airways.
H312:	Harmful in contact with skin.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H332:	Harmful if inhaled.
H335:	May cause respiratory irritation.
H336:	May cause drowsiness or dizziness.
H361d:	Suspected of damaging the unborn child.
H373:	May cause damage to organs through prolonged or repeated exposure.
EUH205:	Contains epoxy constituents / may produce an allergic reaction.

Wording of the hazard classes:

Flam. Liq:	Flammable liquid.
Acute Tox:	Acute toxicity.
Skin Irrit:	Skin irritation.
Eye Irrit:	Serious eye irritation.
STOT SE:	Specific target organ toxicity - single exposure.
STOT RE:	Specific target organ toxicity - repeated exposure.
Asp. Tox:	Aspiration hazard.
Repr:	Reproductive toxicity.

Further information:

Full text of R-phrases referred to under Sections 2 & 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.

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