

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

Commercial Product Name : Caltech QC Primer SP

Ref: M705FR

Revision Date : 26.06.2015

Version : 5 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 26.06.2015

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 Primer SP

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. 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

2.2 Label elements

Hazard pictogram



GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label

xylene , ethylbenzene

H-statement(s)

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.

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H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure .

P-statement(s)

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.

SECTION3:Composition/informationoningredients

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

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.

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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.*

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.*

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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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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

XYLENE

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	220	100	441	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
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

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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	Waste water 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/m3	Long-term exposure value/ ppm	Short-term exposure value / mg/m3	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	Waste water pretreatment	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/ m3	Short-term exposure value / ppm	Short-term exposure value / mg/ m3	Remarks	Source
50	191	100	384	Can be absorbed through the skin.	19

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

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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

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid Form
	Liquid
Colour	yellowish
Odour	solvent
Boiling point [°C]	appr.138 °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 kPa
Temperature :	20 °C
Vapour density	not determined
Density [g/cm ³]	appr.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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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

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SECTION 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	LC0	rat	100

Source : 100 - Firmendaten

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

Source : 100 - Firmendaten

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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

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

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	EC 50	Daphnia magna (Water flea)	48 h	2

Source : 2 - SimChem

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
2,2	IC50	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

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Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
1,8	EC 50	Daphnia magna (Water flea)	48 h	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
4,6	EC 50	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	EC 50	Daphnia (mg/l)	48 h	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
>100 mg/l	EC 50	Algae (mg/l)	96 h	100

Source : 100 - Firmendaten

Ready degradability

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	1307	1307	1307

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	Land transport ADR/RID	*Marine transport IMDG	*Air transport ICAO/IATA
14.2 Description of the goods	XYLENES	XYLENES	XYLENES
14.2 UN proper shipping name		XYLENES	Xylenes
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	III	III	III
Labels	3 	3 	3 
Risk No.	30		
Category	3		
Factor	1		
Classification Code	F1		
Tunnel restriction code	D/E		
Name affix	solution	solution	solution
EmS		F-E;S-D	
Stowage category		A	

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.
 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

*Modifications since last version

Modifications of the previous version are denoted with an asterisk (*).

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

Classification	evaluation
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	

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.