

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

Commercial Product Name : Caltech QC Primer C

Ref No M703FR

Revision Date : 27.11.2015

Version : 5.0 /en

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ROOFING SYSTEMS

Replaces version from : 23.03.2015

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 Primer C

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

Relevant identified uses asphalt priming

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

Responsible Department Technical Department

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

1.4 Emergency telephone number

Emergency telephone number +44 (0) 1744 648400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Flam. Liq. 2; H225 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

2.2 Label elements

Hazard pictogram



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label

methyl methacrylate , 1.4-Butandiol dimethacrylate , 1, 1'-(p-Tolylimino)dipropan-2-ol , ethyl methacrylate

H-statement(s)

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

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H335: May cause respiratory 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.

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Chemical characterization

plastified MMA-resin

Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
methyl methacrylate	CAS No. : 80-62-6 EC-No. : 201-297-1 Index-No. : 607-035-00-6 REACH No. : 01-2119452498-28-XXXX	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	70.0 – 75.0 % by weight
1,4-Butandiol dimethacrylate	CAS No. : 2082-81-7 EC-No. : 218-218-1 REACH No. : 01-2119967415-30-XXXX	Skin Sens. 1; H317	1.0 – 5.0 % by weight
1,1'-(p-Tolylimino)dipropan-2-ol	CAS No. : 38668-48-3 EC-No. : 254-075-1 REACH No. : 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	1.0 – 5.0 % by weight
ethyl methacrylate	CAS No. : 97-63-2 EC-No. : 202-597-5 Index-No. : 607-071-00-2	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	0.1 – 1.0 % 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

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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

*Violent polymerization may be caused by: Extremes of temperature and direct sunlight.
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. Vapours are heavier than air and may spread along floors.
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. Keep product and empty container away from heat and sources of ignition.
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.

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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

METHYL METHACRYLATE

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	Source
50	208	100	416	19

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

Europe

Long-term exposure value/ ppm	Short-term exposure value / ppm	Issuing date	Source
50	100	2009/161	24

Source : 24 - DIRECTIVE 2009/161/EU

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
210 mg/m ³	Workers	Inhalation	Long term effects Local	100
210 mg/m ³	Workers	Inhalation	Long term effects systemic	100
1,5 mg/cm ²	Workers	Skin	Long term effects Local	100
13,67 mg/kg	Workers	Skin	Long term effects systemic	100
105 mg/m ³	Consumers	Inhalation	Long term effects Local	100
74,3 mg/m ³	Consumers	Inhalation	Long term effects, systemic	100
1,5 mg/cm ²	Consumers	Skin	Long term effects Local	100
8,2 mg/kg	Consumers	Skin	Long term effects systemic	100
1,5 mg/cm ²	Consumers	Skin	Short-term effects Local	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
0,94 mg/l	freshwater	100
0,094 mg/l	marine water	100
5,74 mg/kg	sediment	100
1,47 mg/kg	Soil	100

Source : 100 - Firmendaten

1.4-Butandioldimethacrylate

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
14,5 mg/m ³	Workers	Inhalation	Long term effects systemic	100
4,2 mg/kg	Workers	dermal exposure	Long term effects systemic	100

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Source : 100 - Firmendaten

1,1`-(p-Tolylimino)dipropan-2-ol

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
2 mg/m ³	Workers	Inhalation	Long term effects	100
0,6 mg/kg	Workers	Skin	Long term effects	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
199,5	Waste water treatment	100
0,0072 mg/kg	marine water	100
0,017 mg/l	freshwater	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: A1, A2 (in case of higher concentration)

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. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

*Physical state

liquid

Form

Liquid

Colour

colourless

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Odour	smell of Methylmethacrylate
Boiling point [°C]	appr. 100 °C
Flash point [°C]	10 °C
Evaporation rate [kg/(s*m²)]	not determined
Vapour pressure [kPa]	> 50 hPa
Vapour density	not determined
Density [g/cm³]	appr. 0,99 g/cm³
Temperature :	20 °C
Water solubility [g/l]	20 g/l
Partition coefficient n-octanol /water (log P O/W)	not determined
Explosive properties	Not relevant
Oxidising properties	Not relevant
9.2 Other information	
Flow time [s]	appr. 18 sec
Temperature :	20 °C
Measuring method :	DIN cup 4 mm

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution. Risk of receptacle bursting.

10.4 Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing agents

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

METHYL METHACRYLATE

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
>5000	LD50	rat	OECD Test Guideline 401	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
>5000	LD50	rabbit	100

Source : 100 - Firmendaten

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LC50 Inhalation 4h for vapours [mg/l]	Test criterion	Test species	Source
29,8 mg/l	LC50	rat	100

Source : 100 - Firmendaten

Irritant effect on skin	irritating
Test species	rabbit
Irritant effect on eyes	Irritant
Test species	rabbit
Sensitization	Skin sensitization
Test species	mouse
Carcinogenic effects	not a carcinogen
Test species	rat, mouse Mutagenicity not mutagenic
Reproduction toxicity	not toxic to reproduction

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

Source : 100 - Firmendaten

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
No known effect.	100

Source : 100 - Firmendaten

1.4-Butandioldimethacrylate

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
>5000	LD50	rat	OECD Test Guideline 401	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
>3000	LD50	rabbit	The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances.	100

Source : 100 - Firmendaten

Irritant effect on skin	No skin irritation
Irritant effect on eyes	No eye irritation
Sensitization	sensitizing
Test species	mouse
Carcinogenic effects	No known effect.
Mutagenicity	No known effect.
Reproduction toxicity	No known effect.

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Specific target organ toxicity (single exposure) [mg/kg]	Source
No known effect.	100

Source : 100 - Firmendaten

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
No known effect.	100

Source : 100 - Firmendaten

1,1`-(p-Tolylimino)dipropan-2-ol

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

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
2001 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

Irritant effect on skin	No skin irritation
Irritant effect on eyes	Irritant
Sensitization	No sensitization responses were observed.
Mutagenicity	negative

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

METHYL METHACRYLATE

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
191 mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
69 mg/l	EC 50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	100

Source : 100 - Firmendaten

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Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
>110 mg/l	EC 50	Selenastrum capricornutum (green algae)	72 h	OECD Test Guideline 201	100

Source : 100 - Firmendaten

NOEC (fish) [mg/l]	Test species	Measuring method	Source
9,4	Brachydanio rerio (zebra fish)	OECD Test Guideline 210	100

Source : 100 - Firmendaten

NOEC (daphnia) [mg/l]	Test species	Measuring method	Source
37	Daphnia magna (Water flea)	OECD Test Guideline 202	100

Source : 100 - Firmendaten

Biodegradability	Readily biodegradable.
Method of analysis	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F
Bioaccumulation	Does not bioaccumulate.
Mobility	
Mobility	Terrestrial Compartment Not relevant

1.4-Butandiol dimethacrylate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
32,5	LC50	Leuciscus idus (Golden orfe)	48 h	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
7,51	EC10	Daphnia magna (Water flea)	21 day(s)	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
9,79	EC 50	Desmodesmus subspicatus	72 h	100

Source : 100 - Firmendaten

Biodegradability	Readily biodegradable, failing 10-d window
Ready degradability	
Bioaccumulation	Does not bioaccumulate.

1,1`-(p-Tolylimino)dipropen-2-ol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
17	LC50	Brachydanio rerio (zebra fish)	96 h	100

Source : 100 - Firmendaten

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Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
28,8	EC 50	Daphnia magna (Water flea)	18 h	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
245	EC 50	Desmodesmus subspicatus	27 h	100

Source : 100 - Firmendaten

Biodegradability *Poorly biodegradable.*

Bioaccumulation *no data available*

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 *We have no quantitative data concerning the ecological effects of this product.*

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 *08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09 The EWC Nr. only apply for the liquid product.
08 01 12: waste paint and varnish other than those mentioned in 08 01 11 The EWC Nr. only apply for the liquid product.
17 02 03: plastic This EWC Nr. only apply for the hardened product.
08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances*

Uncleaned empty packaging -

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1263	1263	1263
14.2 Description of the goods	PAINT	FARBE	Farbe
14.2 UN proper shipping name		PAINT	Paint
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	II	II	II
Labels			Flammable Liquid
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		
SP 640	640D		
Tunnel restriction code	D/E		
Remarks	(einschließlich Farbe, Lack, Emaille, Beize, Schellack, Firnis, Politur, flüssiger Füllstoff und flüssige Lackgrundlage) (Dampfdruck bei 50 °C höchstens 110 kPa)	(including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base)	(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
EmS		F-E;_S-E	
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

Denmark PR-No.2395318

Denmark MAL-Code-Number 5-5

Additionally, observe any national regulations!

SECTION 16: Other information

Relevant H-phrases

H225: Highly flammable liquid and vapour.

H300: Fatal if swallowed.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes

Flam. Liq.: Flammable liquid

Acute Tox.: Acute toxicity

Skin Irrit.: Skin irritation

Skin Sens.: Skin sensitization

STOT SE: Specific target organ toxicity – single exposure

Eye Irrit.: Serious eye irritation

Aquatic Chronic: Hazardous to the aquatic environment

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	
Acute Tox. 4; H302	
Skin Irrit. 2; H315	
Skin Sens. 1; H317	
STOT SE 3; H335	

Department issuing safety data sheet

Environmental Department

Further information

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

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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.