

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

1.1 Product identifier

Trade name/designation: Caltech QC Primer C 10kg.

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

Relevant identified uses: Concrete priming.

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

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 Skin Irrit. 2; H315 Skin Sens. 1A; H317 STOT SE 3; H335.

2.2 Label elements

Hazard pictures:



Signal word:

Danger.

Hazardous component(s) to be indicated on label:

Methyl methacrylate, 1.4-Butandiol dimethacrylate, Ethyl Methacrylate.

Hazard statements:

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.

Precautionary statements prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary statements response:

P312: Call a POISON CENTER/doctor if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

Precautionary statements storage:

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

2.3 Other hazards

Not available.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

See 'Composition on ingredients' in Section 3.2.

3.2 Mixtures

Other data:

This mixture contains $\geq 1\%$ titanium dioxide (CAS 13463-67-7) The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10.

Ingredient	Numbers	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	65.0 - 70.0% by weight
1,1'-(P-Tolylimi-No)Dipropen-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	0.1 - 5.0 % 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
Ethyl Methacrylate	CAS No: 97-63-2 EC-No: 202-597-5 Index-No: 607-071-00-2 REACH No: 01-2119490215-40-XXXY	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

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.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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.
Inhalation	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
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:

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 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

Ensure adequate ventilation.

Vapours are heavier than air and may spread along floors.

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 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:

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

Suitable container:

Keep in properly labelled containers.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage incompatibility:

Store in accordance with the particular national regulations.
Keep in a cool, well-ventilated place.

TRGS 510:

3.

Recommended storage temperature:

Keep in a dry, cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

methyl methacrylate

Great Britain				
Long term exposure value/ ppm	Long term exposure value/ mg/m3	Short term exposure value / ppm	Short term exposure value / mg/m3	Source
50	208	100	416	EH40/2005 Workplace exposure limits (2011)

Europe			
Long-term exposure value / ppm	Short-term exposure value / ppm	Issuing date	Source
50	100	2009/161	DIRECTIVE 2009/161/EU

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

PNEC	Exposure route	Source
0,94 mg/l	Freshwater	Company data
0,094 mg/l	Marine water	Company data
5,74 mg/kg	Sediment	Company data
1,74 mg/kg	Soil	Company data

1.1`-(P-Tolylimino)Dipropen-2-Ol:

DNEL	Target group	Exposure route	Exposure frequency	Source
2 mg/m³ 2	Workers	Inhalation	Long term effects	Company data
0,6 mg/kg	Workers	Skin	Long term effects	Company data

PNEC	Exposure route	Source
199,5 mg/l	Waste water treatment	Company data
0,0072 mg/kg	Marine water	Company data
0,017mg/l	Freshwater	Company data

1.4-Butandioldimethacrylate:

DNEL	Target group	Exposure route	Exposure frequency	Source
14,5 mg/m³	Workers	Inhalation	Long term effects Local systemic	Company data
4,2 mg/kg	Workers	Dermal exposure	Long term effects Local systemic	Company data

8.2 Exposure controls

8.2.1. Appropriate engineering Controls:	Ensure adequate ventilation, especially in confined areas. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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:	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. Unsuitable material woven fabric, Leather gloves Suitable material Nitriles Material thickness 0,38 mm Break through time <25 min
Body protection:	See Other Protection below.
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).
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

Physical state:	Liquid	Relative density [g/cm³]	1,00 g/cm³
Form:	Liquid	Temperature [°C]	20 °C
Colour:	Colourless	Solubility in water [g/l]:	Insoluble
Odour:	Smell of Methylmethacrylate	Partition coefficient n-octanol/water (log P O/W):	Not determined

Odour threshold:	Not available	Explosive properties:
pH (as supplied):	Not available	Oxidising properties:
Melting point/freezing point (°C):	Not determined	
Initial boiling point and boiling range (°C):	>100°C	
Flash point (°C):	10°C	
Evaporation rate [kg/($s\ m^2$)]:	Not determined	
Explosion limits [Vol-%]	The product itself has not been tested Methyl Methacrylate	
Lower Explosive Limit (%):	1,7 vol. %	
Upper Explosive Limit (%):	12,5 vol. %	
Vapour pressure (kPa):	> 50 kPa	
Vapour density (Air = 1):	Not determined	

In use, may form flammable/explosive vapour-air mixture
Not relevant

9.2 Other information

Ignition temperature [°C]:	Not determined.
Flow time[s]:	17 sec.
Temperature [°C]:	20 °C.
Measuring method:	DIN cup 4 mm.

10. STABILITY AND REACTIVITY

10.3 Possibility of 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

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

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

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral toxicity [mg/kg]:

Hazardous ingredients:

Methyl Methacrylate				
Value	Test criterion	Test species	Measuring method	Source
>5001mg/kg	LD50	Rat	OECD Test Guideline 401	Company data

1,1`-(P-Tolylimino)Dipropen-2-OI				
Value	Test criterion	Test species	Measuring method	Source
26mg/kg	LD50	Rat	OECD Test Guideline 423	Company data

1.4-Butandioldimethacrylate				
Value	Test criterion	Test species	Measuring method	Source
>5000mg/kg	LD50	Rat	OECD Test Guideline 401	Company data

Dermal toxicity [mg/kg]:

Hazardous ingredients:

Methyl Methacrylate			
Value	Test criterion	Test species	Source

>5001mg/kg	LD50	Rabbit	Company data
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1,1`-(P-Tolylimino)Dipropen-2-Ol			
Value	Test criterion	Test species	Source
2001mg/kg	LD50	Rat	Company data

1.4-Butandiol dimethacrylate				
Value	Test criterion	Test species	Remarks	Source
>3000mg/kg	LD50	Rat	*1)	Company data

* 1): 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.

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

Hazardous ingredients:

Methyl Methacrylate			
Value	Test criterion	Test species	Source
29,8 mg/kg	LD50	Rat	Company data

Irritant effect on skin:

Hazardous ingredients:

Methyl Methacrylate			
Value	Test species	Source	
Irritating	Rabbits	Company data	

1,1`-(P-Tolylimino)Dipropen-2-Ol	
Value	Source
No skin irritation	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No skin Irritation	Company data

Irritant effect on eyes:

Hazardous ingredients:

Methyl Methacrylate		
Value	Test species	Source
Irritating	Rabbits	Company data

1,1`-(P-Tolylimino)Dipropen-2-Ol	
Value	Source
Irritant	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No eye irritation	Company data

Sensitization:

Hazardous ingredients:

Methyl Methacrylate		
Value	Test species	Source
Skin sensitization	Mouse	Company data

1,1`-(P-Tolylimino)Dipropen-2-Ol	
Value	Source
No sensitization responses were observed	Company data

1.4-Butandiol dimethacrylate		
Value	Test species	Source
Sensitizing	Mouse	Company data

Carcinogenic effects:

Hazardous ingredients:

Methyl Methacrylate		
Value	Test species	Source
Not a carcinogen	Rat, mouse	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No known effect	Company data

Mutagenicity:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Not mutagenic	Company data

1,1'-(p-Tolylimino)dipropen-2-ol	
Value	Source
Negative	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No known effect	Company data

Reproduction toxicity:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Not toxic to reproduction	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No known effect	Company data

Specific target organ toxicity (single exposure) [mg/kg]:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Causes respiratory tract irritation	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No known effect	Company data

Specific target organ toxicity (repeated exposure) [mg/kg]:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
No known effect	Company data

1.4-Butandiol dimethacrylate	
Value	Source
No known effect	Company data

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]:

Hazardous ingredients:

Methyl Methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
191 mg/l	LC50	Oncorhynchus Mykiss (rain- bow trout)	OECD Test Guideline 203	96 h	Company data

1,1`-(p-Tolylimino)dipropen-2-ol					
Value	Test criterion	Test species	Exposure duration [h]	Source	
17 mg/l	LC50	Brachydanio rerio (zebra fish)	96 h	Company data	

1,4-Butandiol dimethacrylate					
Value	Test criterion	Test species	Exposure duration [h]	Source	
32,5 mg/l	LC50	Leuciscus idus (golden orfe)	48 h	Company data	

Toxicity to daphnia [mg/l]:

Hazardous ingredients:

Methyl Methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
69 mg/l	EC50	Daphnia magna (water flea)	OECD Test Guideline 202	48 h	Company data

1,1`-(P-Tolylimino)Dipropen-2-ol					
Value	Test criterion	Test species	Exposure duration [h]	Source	
28,8 mg/l	EC50	Daphnia magna (water flea)	18 h	Company data	

1,4-Butandiol dimethacrylate					
Value	Test criterion	Test species	Exposure duration [h]	Source	
7,51 mg/l	EC10	Daphnia magna (water flea)	21 day(s)	Company data	

Toxicity to algae [mg/l]:

Hazardous ingredients:

Methyl Methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
>110 mg/l	EC50	Selenastrum capricornutum (green algae)	OECD Test Guideline 201	72 h	Company data

1,1`-(P-Tolylimino)Dipropen-2-ol					
Value	Test criterion	Test species	Exposure duration [h]	Source	
245 mg/l	EC50	Desmodesmus subspicatus	27 h	Company data	

1.4-Butandioldimethacrylate				
Value	Test criterion	Test species	Exposure duration [h]	Source
9,79 mg/l	EC50	Desmodesmus subspicatus	72 h	Company data

NOEC (fish) [mg/l]:

Hazardous ingredients:

Methyl Methacrylate			
Value	Test species	Measuring method	Source
9,4 mg/l	Brachydanio rerio (zebra fish)	OECD Test Guideline 210	Company data

NOEC (daphnia) [mg/l]:

Hazardous ingredients:

Methyl Methacrylate			
Value	Test species	Measuring method	Source
37 mg/l	Daphnia magna (water flea)	OECD Test Guideline 202	Company data

12.2 Persistence and degradability

Hazardous ingredients:

Methyl Methacrylate		
Value	Measuring method	Source
Readily biodegradable	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
Poorly biodegradable	Company data

1.4-Butandioldimethacrylate		
Value	Remarks	Source
Biodegradable. 84 %	Manufacturer specification	Company data

12.3 Bioaccumulation potential

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Does not bioaccumulate	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
No data available	Company data

1.4-Butandioldimethacrylate	
Value	Source
Does not bioaccumulate	Company data

12.4 Mobility in soil

Hazardous ingredients:

Methyl Methacrylate	
Mobility	Source
Terrestrial Compartment - not relevant	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:

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal Considerations:	Disposal of this product and its packaging must comply with all applicable environmental protection and waste disposal legislation, including any requirements set by local authorities. Any unwanted or non-recyclable material should be disposed of through a licensed waste disposal contractor. Transportation of such waste may be subject to ADR (International Carriage of Dangerous Goods by Road) regulations and must be managed in accordance with those requirements.
Waste code:	Uncured product: 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances. Cured product inert residue: 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 Empty metal paint tins with only hardened, inert residue: 15 01 04 metallic packaging
Special precautions:	This material and its container must be disposed of in a safe way. Caution should be exercised when handling empty containers that have not been properly cleaned or rinsed, as they may retain hazardous residues. Spillage and wash water from cleaning tools must be prevented from entering soil, watercourses, drains, or sewer systems. Empty containers should be directed to authorised waste disposal or appropriate local recycling facilities.
Further information available via:	https://www.alumascroofing.com/downloads/disposal-guides/ 

14. TRANSPORT INFORMATION

Labels required:

	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	PAINT	PAINT
14.3 Transport hazard class(es):	3	3	3
14.4 Packaging group:	III	III	III
Labels:			
Risk No:	33		
Category:	3		
Factor:	1		
Classification code:	F1		
SP 640:	640D		
Tunnel restriction code:	D/E		
EmS:		F-E; S-E	
Stowage category:		B	
UN proper shipping name:	UN 1263 PAINT	UN 1263 PAINT	UN 1263 Paint

14.7. Transport in bulk according to Annex II of MARPOL 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:

Classification in compliance with the Industrial Safety Regulation:

GISCODE:

MAL-Code:

Additionally, observe any national regulations!

Highly flammable.

RMA10.

5-5.

16. OTHER INFORMATION

Full text Risk and Hazard codes:

H225: Highly flammable liquid and vapour.

H300: Fatal 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.

STOT SE: Specific target organ toxicity - single exposure.

Skin Irrit.: Skin irritation.

Skin Sens.: Skin sensitization.

Acute Tox.: Acute toxicity.

Eye Irrit.: Serious eye irritation.

Aquatic Chronic: Hazardous to the aquatic environment.

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

Classification	Evaluation
Flam. Liq. 2; H225	Calculated
Skin Irrit. 2; H315	Calculated
Skin Sens. 1A; H317	Calculated
STOT SE 3; H335	Calculated

SDS version summary:

Version	Date of Update	Section Updated
1.1	03/04/2023	Template Change
2.0	27/05/2025	Section 13 update

Other information:

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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