

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

1.1 Product identifier

Trade name/designation: Caltech QC (Winter Grade).

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

Relevant identified uses: Liquid applied waterproofing membrane.

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. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

2.2 Label elements

Hazard pictures:



Signal word:

Warning

Hazardous component(s) to be indicated on label:

methyl methacrylate, 2-ethylhexyl acrylate, 2,2'-[(4-methylphenyl)imino]bisethanol, Fatty acids, C18-unsatd., dimers reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Hazard statements:

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.

Supplementary statements:

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary statements prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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 disposal: P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3 Other hazards

substances of very high concern (SVHC)	This substance/mixture contains substances listed on the current "Candidate List of Substances of Very High Concern (SVHC)" for authorisation in concentrations of 0.1% or more. See Chapter 3 other substance information.
Appendix VIII - Persistent, Bioaccumulative and Toxic	This substance/mixture does not contain substances in concentrations of 0.1% or more that are classified as persistent, bioaccumulative and toxic (PBT).
Annex VIII - very persistent and very bioaccumulative	This substance/mixture contains substances in concentrations of 0.1% or more that are classified as very persistent and very bioaccumulative (vPvB).
Delegated Regulation - endocrine disrupting or endocrine disrupting properties	This substance/mixture does not contain substances in concentrations of 0.1% or more that are included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine-disrupting properties, or that have endocrine- disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.
Article 59(1) - endocrine disrupting properties	This substance/mixture does not contain substances in concentrations of 0.1% or more that are included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine-disrupting properties, or that have endocrine-disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substances

See 'Composition on ingredients' in Section 3.2.

3.2 Mixtures

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
2,2'-[(4-Methylphenyl)Imino] Bisethanol	CAS No: 3077-12-1 EC-No: 221-359-1 REACH No: 01-2120791684-40-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	0.1 - 1.0 % 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	0.1 - 1.0 % by weight
Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine And 1,3-Propanediamine	CAS No: 162627-17-0 EC-No: 605-296-0 REACH No: 01-2119970640-38-XXXX	Skin Sens. 1A; H317	0.01 - 0.1 % by weight

Ingredient	Numbers	M- factor - SCL - ATE	Other
Methyl Methacrylate	CAS No: 80-62-6 EC-No: 201-297-1 Index-No: 607-035-00-6 REACH No: 01-2119452498-28-XXXX		
2-Ethylhexyl Acrylate	CAS No: 103-11-7 EC-No: 203-080-7 Index-No: 607-107-00-7 REACH No: 01-2119453158-37-XXXX		
Aliphatic Urethanacrylate			
*Bumetrizole (UV-326)	* CAS No.: 3896-11-5 * EC-No.: 223-445-4		* SVHC * vPvB

Ingredient	Numbers	M- factor - SCL - ATE	Other
*2,2'-[[4-methylphenyl]imino]bisethanol	CAS No.: 3077-12-1 EC-No.: 221-359-1 REACH No.: 01-2120791684-40-XXXX		
1,1'-(p-Tolylimino)dipropan-2-ol	CAS No.: 38668-48-3 EC-No.: 254-075-1 REACH No.: 01-2119980937-17-XXXX		
Fatty acids, C18-unsatd., dimers reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	CAS No.: 162627-17-0 EC-No.: 605-296-0 REACH No.: 01-2119970640-38-XXXX		

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 also 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.

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.

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.

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	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

2-Ethylhexyl Acrylate:

DNEL	Target group	Exposure route	Exposure frequency	Source
37,5 mg/m ³	Workers	Inhalation	Long term effects Local	Company data
0,242 mg/cm ²	Workers	Skin	Long term effects Local	Company data
0,242 mg/cm ²	Workers	Skin	Short-term effects Local	Company data
4,5mg/m ³	Consumers	Inhalation	Long term effects Local	Company data

PNEC	Exposure route	Source
0,002752 mg/l	Fresh water	Company data
0,0002752 mg/l	Seawater	Company data
2,3 mg/l	Wastewater treatment plant	Company data
0,126 mg/kg	Sediment Water	Company data
0,126mg/kg	Sediment seawater	Company data
1,0 mg/kg	Soil	Company data
0,0023mg/kg	Intermittent release	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol:

DNEL	Target group	Exposure route	Exposure frequency	Source
0,47 mg/kg	Workers	Dermal exposure	Long term effects systemic	Company data

PNEC	Exposure route	Source
0,003 mg/l	Seawater	Company data


0,121 mg/kg	Freshwater Sediment	Company data
0,026 mg/l	Freshwater	Company data
0,012 mg/kg	Marine Sediment	Company data
10 mg/l	Waste water treatment	Company data
0,009 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

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:	<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 >25 min</p>
Body protection:	Wear suitable protective equipment. Long sleeved clothing
Respiratory protection:	In interiors and during exceeding of the air limit values carrying of protective masks is absolutely necessary. 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	Colour:	Grey
Form:	Liquid	Boiling Point (°C): Pressure:	>100°C 1013,25 hPa
Odour:	Smell of Methyl methacrylate		
Odour threshold:	Not available	Vapour pressure (kPa):	37 hPa
pH (as supplied):	Not available	Temperature [°C]:	20 °C
Melting point/freezing point (°C):	-48°C	NOTE:	Methyl Methacrylate
		Vapour density (Air = 1):	Not determined

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Pressure: Remarks:	1013,25 hPa Methyl Methacrylate	Relative density [g/cm³]: Pressure: Temperature [°C]: Measuring method	1,33 g/cm³ 1013,25 hPa 20 °C Pycnometer
Flash point (°C): Measuring method	31°C ISO 13736 / IP170	Water Solubility [g/l]: Pressure: Temperature [°C]:	insoluble 1013,25 hPa 20 °C
Evaporation rate [kg/(s m²)]:	Not determined	Partition coefficient n-octanol/water (log P O/W):	Not determined
Flammability:	Flammable	Viscosity, dynamic [mm²/s] Temperature [°C]: Measuring method:	11 cm²/s 20 °C calculated
Explosion limits [Vol-%]	The product itself has not been tested	Viscosity, dynamic [kg/(m s)]: Temperature [°C]: Measuring method:	1.500 mPas*s 20 °C Haake-Viscotester
Methyl Methacrylate		Explosive properties	In use, may form flammable/explosive vapour-air mixture
Lower Explosive Limit (%):	1,7 vol. %	Vapour density	not determined
Upper Explosive Limit (%):	12,5 vol. %	Relative vapour density (air=1)	For the product of this parameter is not applicable.
2-Ethylhexyl Acrylate		Evaporation rate [kg/(s m²)]	not determined
Lower Explosive Limit (%):	0,9 vol. %		
Upper Explosive Limit (%):	6,4 vol. %		
Ignition temperature [°C]:	430 °C.		
Measuring method:	DIN 51794.		
Note:	Methyl Methacrylate.		

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability The product is stable under the usual processing conditions

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

2-Ethylhexyl Acrylate			
Value	Test criterion	Test species	Source
4435mg/kg	LD50	Rat	Company data

Aliphatic Urethanacrylate			
Value	Test criterion	Test species	Source
>2001mg/kg	LD50	Rat	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol			
Value	Test criterion	Test species	Source
959 mg/kg	LD50	Rat	Company data

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

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine				
Value	Test criterion	Test species	Measuring method	Source
>10000 mg/kg	LD50	Rat	OECD Test Guideline 401	Company data

Dermal toxicity [mg/kg]:

Hazardous ingredients:

Methyl Methacrylate			
Value	Test criterion	Test species	Source
>5001 mg/kg	LD50	Rabbits	Company data

2-Ethylhexyl Acrylate			
Value	Test criterion	Test species	Source
7522mg/kg	LD50	Rabbits	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol			
Value	Test species	Measuring method	Source
2001mg/kg	Rat	OECD Test Guideline 402	Company data

1,1'-(P-Tolylimino)Dipropen-2-ol			
Value	Test criterion	Test species	Source
2001mg/kg	LD50	Rat	Company data

***Inhalative toxicity [mg/l]:**

Hazardous ingredients:

2-Ethylhexyl Acrylate			
Value	Test species	Exposure duration [h]	Source
1,19 mg/l	Rat	8 hours	Company data

***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

2-Ethylhexyl Acrylate			
Value	Test species	Exposure duration [h]	Source
Skin Irritation	Rabbits	4 hours	Company data

Aliphatic Urethanacrylate	
Value	Source
May cause skin irritation	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol		
Value	Test species	Source
No skin irritation	Rabbits	Company data

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

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine			
Value	Measuring method	Test species	Source
Skin Irritation	OECD Test Guideline 404	Rabbits	Company data

Irritant effect on eyes:

Hazardous ingredients:

Methyl Methacrylate		
Value	Test species	Source
Irritating	Rabbits	Company data

2-Ethylhexyl Acrylate			
Value	Measuring method	Test species	Source
Slightly irritating	OECD Test Guideline 405	Rabbits	Company data

Aliphatic Urethanacrylate	
Value	Source
Causes serious eye irritation	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol	
Value	Source
Risk of serious damage to eyes	Company data

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

Fatty acids, C18-unsatd, dimers reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine			
Value	Measuring method	Test species	Source
No eye Irritation	OECD Test Guideline 405	Rabbits	Company data

Sensitization:

Hazardous ingredients:

Methyl Methacrylate		
Value	Test species	Source
Skin sensitization	Mouse	Company data

2-Ethylhexyl Acrylate	
Value	Source
Skin sensitization	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol	
Value	Source
No known effect	Company data

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

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine And 1,3-Propanediamine		
Value	Measuring method	Source
Skin sensitizer	OECD 429	Company data

Mutagenicity

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Not mutagenic	Company data

2-Ethylhexyl Acrylate	
Value	Source
No known effect	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol				
Value	Measuring method	Test species	Remarks	Source
Negative	Ames test	Bacteria	In vitro methods	Company data

1,1'-(P-Tolylimino)Dipropen-2-ol	
Value	Source
Negative	Company data

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine		
Value	Measuring method	Source
Negative	Ames test OECD 471	Company data

Carcinogenic effects:

Hazardous ingredients:

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

2-Ethylhexyl Acrylate	
Value	Source
No known effect	Company data

Reproduction toxicity:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Not toxic to reproduction	Company data

2-Ethylhexyl Acrylate	
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

2-Ethylhexyl Acrylate	
Value	Source
Causes respiratory tract irritation	Company data

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

Hazardous ingredients

Methyl Methacrylate	
Value	Source
No known effect	Company data

2-Ethylhexyl Acrylate	
Value	Source
No known effect	Company data

11.2 Additional information

Endocrine disrupting properties:

This substance/mixture does not contain substances in concentrations of 0.1% or more that are included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine-disrupting properties, or that have endocrine-disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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
191mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	Company data

2-Ethylhexyl Acrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
1,81mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
101 mg/l	LC50	Brachydanio rerio (zebra fish)	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	

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine					
Value	Test criterion	Test species	Measuring method	Source	
>150mg/l	LC50	Leuciscus idus (golden orfe)	DIN 38412	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

2-Ethylhexyl Acrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
1,3 mg/l	EC50	Daphnia magna (water flea)	OECD Test Guideline 202	48 h	Company data

Aliphatic Urethanacrylate					
Value	Test criterion	Test species	Source		
>100 mg/l	EC50	Daphnia magna	Company data		

		(water flea)	
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2,2'-[(4-Methylphenyl)Imino]Bisethanol					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
48 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	

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
>101 mg/l	EC50	Daphnia magna (water flea)	OECD Test Guideline 202	48 h	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

2-Ethylhexyl Acrylate					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
1,71 mg/l	ErC50	Desmodesmus subspicatus	OECD Test Guideline 201	72 h	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
>101 mg/l	ErC50	Pseudokirchneriella subcapitata	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	

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine					
Value	Test criterion	Test species	Measuring method	Exposure duration [h]	Source
>101 mg/l	ErC50	Pseudokirchneriella subcapitata	OECD Test Guideline 201	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	

NOEC (algae) [mg/l]:

Hazardous ingredients:

2-Ethylhexyl Acrylate			
Value	Test species	Measuring method	Source
0,45 mg/l	Desmodemus subspicatus	OECD Test Guideline 201	Company data

12.2 Persistence and degradability

Biodegradability:

Hazardous ingredients:

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

2-Ethylhexyl Acrylate	
Value	Source
Readily biodegradable	Company data

2,2'-[(4-Methylphenyl)Imino]Bisethanol	
Value	Source
Not readily biodegradable	Company data

1,1'-(P-Tolylimino)Dipropan-2-Ol	
Value	Source
Poorly biodegradable	Company data

Fatty Acids, C18-Unsatd, Dimers Reaction Products With N,N-Dimethyl-1,3-Propanediamine and 1,3-Propanediamine		
Value	Measuring method	Source
Not readily biodegradable	OECD 301	Company data

12.3 Bioaccumulation potential

*Bioaccumulation:

Hazardous ingredients:

Methyl Methacrylate	
Value	Source
Does not bioaccumulate	Company data

2-Ethylhexyl Acrylate	
Value	Source
Bioaccumulation slight, log Pow 4,64	Company data

1,1'-(P-Tolylimino)Dipropan-2-Ol	
Value	Source
No data available	Company data

12.4 Mobility in soil

Mobility:

Hazardous ingredients:

Methyl Methacrylate	
Mobility	Source
Terrestrial compartment not relevant	Company data

12.5 Results of PBT and vPvB assessment

This substance/mixture contains substances in quantities of 0.1% or higher that are classified as persistent, bioaccumulative and toxic (PBT) and/or as very persistent and very bioaccumulative (vPvB): Bumetrizole (UV-326) (CAS No. 3896-11-5).

12.6 Endocrine disrupting properties

Harmful effects on the environment:

This substance/mixture does not contain substances in concentrations of 0.1% or more that are included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine-disrupting properties, or that have endocrine-disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.




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:	08 01 11* waste paint and varnish containing organic solvents or other hazardous substances.
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		
Tunnel restriction code	E		
EmS		F-E; S-E	
Stowage category		A	
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 applicable.

Our company policy is one of continuous research and development; we therefore reserve the right to amend content herein without prior notice.

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.

4-5.

16. OTHER INFORMATION

Full text risk and hazard codes:

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H300: Fatal if swallowed.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

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

Aquatic Chronic: Hazardous to the aquatic environment

Eye Irrit.: Serious eye irritation

Acute Tox.: Acute toxicity

Eye Dam.: Serious eye damage

vPvB: Very Persistent and very Bioaccumulative

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
3.0	27/01/2026	Whole document 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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