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

1.1 Product identifier

Trade name/designation: Caltech QC Finish.

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

Relevant identified uses: Sealing.

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, 2-ethylhexyl acrylate, Fatty acids, C14-18 and C16-18-unsatd., maleated, maleic anhydride

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.
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.

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Further information EUH441: Strongly accumulates in the environment and living organisms including in humans.

2.3 Other hazards

Substances of Very High Concern (SVHC)
This substance/mixture does not contain substances listed on the current "Candidate List of Substances of Very High Concern (SVHCs)" in concentrations of 0.1% or more.

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 does not contain 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

3.2 Mixtures

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	30.0 - 35.0 % by weight
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	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	20.0 - 25.0 % by weight
Aliphatic Urethanacrylate		Skin Irrit. 2; H315 Eye Irrit. 2; H319	1.0 - 5.0 % by weight
Fatty Acids, C14-18 and C16-18-Unsatd, Maleated	CAS No: 85711-46-2 EC-No: 701-043-4 REACH No: 01-2119976378-19-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317	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
Bumetrizole (UV-326)	CAS No.: 3896-11-5 EC-No.: 223-445-4	vPvB; EUH441	0.1 - 1.0 % by weight
Maleic Anhydride	CAS No: 108-31-6 EC-No: 203-571-6 Index-No: 607-096-00-9 REACH No: 01-2119472428-31-XXXX	Acute Tox. 4; H302 STOT RE 1; H372 Skin Corr. 1B; H314 Eye Dam. 1; H318Resp. Sens. 1; H334 Skin Sens. 1A; H317	0.0015 - 0.01 % by weight

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other substance information

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			
Fatty Acids, C14-18 and C16-18-Unsatd, Maleated	CAS No: 85711-46-2 EC-No: 701-043-4 REACH No: 01-2119976378-19-XXXX		
1,1`-(p-Tolylimino) Dipropan-2-ol	CAS No: 38668-48-3 EC-No: 254-075-1 REACH No: 01-2119980937-17-XXXX		
Bumetrizole (UV-326)	CAS No.: 3896-11-5 EC-No.: 223-445-4		SVHC vPvB
Maleic Anhydride	CAS No: 108-31-6 EC-No: 203-571-6 Index-No: 607-096-00-9 REACH No: 01-2119472428-31-XXXX	Skin Sens. 1A; H317: C >= 0,001 %	

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 MEASSURES

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.

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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 Section 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. ACCIDENTIAL 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:
Contains synthetic polymer microparticle
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

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.

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7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements:
Store in accordance with the particular national regulations. Keep in a cool, well ventilated place.
Keep in properly labelled containers.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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/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
210 mg/m³	Workers	Inhalation	Long term effects Local	Company data
210 mg/m³	Workers	Inhalation	Long term effects systemic	Company data
1,5 mg/cm²	Workers	Skin	Long term effects Local	Company data
13,67 mg/kg	Workers	Skin	Long term effects systemic	Company data
105 mg/m³	Consumers	Inhalation	Long term effects Local	Company data
74,3 mg/m³	Consumers	Inhalation	Long term effects, systemic	Company data
1,5 mg/cm²	Consumers	Skin	Long term effects Local	Company data
8,2 mg/kg	Consumers	Skin	Long term effects systemic	Company data
1,5 mg/cm²	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/m³	Workers	Inhalation	Long term effects Local	Company data
0,242 mg/cm²	Workers	Skin	Long term effects Local	Company data
0,242 mg/cm²	Workers	Skin	Short-term effects Local	Company data
4,5 mg/m³	Consumers	Inhalation	Long term effects Local	Company data

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

1,1`-(p-Tolylimino)Dipropan-2-ol:

DNEL	Target group	Exposure route	Exposure frequency	Source
2 mg/m³	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
0,017 mg/l	Freshwater	Company data

Maleic Anhydride:

Great Britain			
Long-term exposure value/mg/m3	**Short-term exposure value / mg/m3**	**Note**	**Source**
1	3	Sen	EH40/2005 Workplace exposure limits (2011)

DNEL	Target group	Exposure route	Exposure frequency	Source
0,081 mg/m³	Workers	Inhalable fraction	Long term effects systemic	Company data
0,2 mg/kg	Workers	Inhalable fraction	Acute systemic	Company data
0,081 mg/m³	Workers	Inhalable fraction	Long term effects Local effects	Company data
0,2 mg/m³	Workers	Inhalable fraction	Acute Local effects	Company data

PNEC	Exposure route	Source
0,04281 mg/l	Freshwater	Company data
0,004281 mg/l	Marine water	Company data
0,4281 mg/l	Intermittent release	Company data
0,0415 mg/l	Soil	Company data
0,0334 mg/kg	Freshwater sediment	Company data
0,0334 mg/kg	Marine sediment	Company data
44,6 mg/l	Waste water treatment	Company data

8.2 Exposure controls

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.
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

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	Break through time: <25 min
Respiratory protection: Remarks:	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. 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	**Relative density [g/cm³]** **Pressure** **Temperature [°C]** **Measuring method**	1,05 g/cm³ 1013,25 hPa 20 °C Pycnometer
Odour:	Smell of methyl methacrylate	**Partition coefficient n-octanol/water:**	Not determined
Odour threshold:	Not available	**Decomposition temperature [°C]:**	No data available
pH (as supplied):	Not applicable	**Viscosity, kinematic [mm²/s]** **Temperature [°C]** **Measuring method**	670 mm²/s 20 °C Calculated
Melting point/freezing point (°C): **Pressure** **Remarks**	-48 °C 1013,25 hPa Methyl methacrylate	**Viscosity, dynamic [kg/(m s]** **Temperature [°C]** **Measuring method**	700 mPa*s 20 °C Brookfield
Initial boiling point and boiling range (°C): **Pressure**	>100°C 1013,25 hPa	**Evaporation rate [kg/(s m²)]:**	Not determined
Flammability	Flammable	**Flow time [s]** **Temperature [°C]** **Cup type**	22 sec 20 °C DIN cup 6 mm
Flash point (°C): **Measuring method** **Note**	10°C DIN 51755 Methyl methacrylate	**Solubility in water [g/l]:** **Temperature [°C]** **Pressure**	Insoluble 20 °C 1013,25 hPa
Ignition temperature [°C] **Measuring method** **Note**	430 °C DIN 51794 Methyl methacrylate	**Explosive properties:**	In use, may form flammable/explosive vapour-air mixture
Explosion limits [Vol-%]:	The product itself has not been tested	**Vapour pressure (kPa):** **Temperature [°C]** **Note**	37 hPa 20 °C Methyl methacrylate
Methyl Methacrylate		**Relative vapour density (air=1)**	For the product of this parameter is not applicable
Lower Explosive Limit (%):	1,7 vol. %		
Upper Explosive Limit (%):	12,5 vol. %		
2-Ethylhexyl Acrylate		**Vapour density**	Not determined
Lower Explosive Limit (%):	0,9 vol. %		
Upper Explosive Limit (%):	6,4 vol. %		

10. STABILITY AND REACTIVITY

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
The product is stable under the usual processing conditions.

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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

1,1`-(p-Tolylimino)Dipropan-2-ol				
Value	**Test criterion**	**Test species**	**Measuring method**	**Source**
26mg/kg	LD50	Rat	OECD Test Guideline 423	Company data

Maleic Anhydride			
Value	**Test criterion**	**Test species**	**Source**
1090mg/kg	LD50	Rat	Company data

Dermal toxicity [mg/kg]:
Hazardous ingredients:

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

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

1,1`-(P-Tolylimino)Dipropan-2-Ol			
Value	**Test criterion**	**Test species**	**Source**
2001mg/kg	LD50	Rat	Company data

Maleic Anhydride			
Value	**Test criterion**	**Test species**	**Source**
2620mg/kg	LD50	Rabbit	Company data

Inhalative toxicity [mg/l]:
Hazardous ingredients:

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

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

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

LC50 Inhalation 1h for dusts and sprays [mg/l]:
Hazardous ingredients:

Maleic Anhydride			
Value	**Test criterion**	**Test species**	**Source**
2620mg/kg	LD50	Rabbits	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

1,1`-(p-Tolylimino)Dipropan-2-ol	
Value	**Source**
No skin irritation	Company data

Maleic Anhydride	
Value	**Source**
Acute dermal irritation/corrosion	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	Rabbit	Company data

Aliphatic Urethanacrylate	
Value	**Source**
Causes serious eye irritation	Company data

1,1`-(p-Tolylimino)Dipropan-2-ol	
Value	**Source**
Irritant	Company data

Irritant effect on the respiratory tract: There is no data available for this product.

Sensitization:
Hazardous ingredients:

Methyl Methacrylate		
Value	**Test species**	**Source**
Skin sensitization	Mouse	Company data

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2-Ethylhexyl Acrylate	
Value	**Source**
Skin sensitization	Company data

1,1`-(p-Tolylimino)Dipropan-2-ol	
Value	**Source**
No sensitization responses were observed	Company data

Maleic Anhydride		
Value	**Measuring method**	**Source**
Skin sensitizing	OECD Test Guideline 406	Company data

Mutagenicity:
Hazardous ingredients:

Methyl Methacrylate	
Value	**Source**
Not mutagenic	Company data

2-Ethylhexyl Acrylate	
Value	**Source**
No known effect	Company data

1,1`-(p-Tolylimino)Dipropan-2-ol	
Value	**Source**
Negative	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

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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

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

Maleic Anhydride		
Value	**Test criterion**	**Source**
75 mg/l	LC50	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	LC50	Daphnia magna (water flea)	Company data

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

Maleic Anhydride		
Value	**Test criterion**	**Source**
77 mg/l	EC50	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

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

Maleic Anhydride		
Value	**Test criterion**	**Source**
150 mg/l	EC50	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	Desmodesmus subspicatus	OECD Test Guideline 201	Company data

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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

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

Methyl Methacrylate		
Value	**Measuring method**	**Source**
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

Hazardous ingredients:

Methyl Methacrylate	
Mobility	**Source**
Terrestrial compartment not relevant	Company data

12.5 Results of PBT and vPvB assessment

This substance/mixture does not contain any substances classified as persistent, bioaccumulative and toxic (PBT) and/or very persistent and very bioaccumulative (vPvB) in amounts of 0.1% or higher.).

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.

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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	3 	3 	3 
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. Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC code: Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations: Additionally, observe any national regulations!
Classification in compliance with the Industrial Safety Regulation: Highly flammable.
GISCODE: RMA10.
MAL-Code: 5-5.

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Synthetische Polymer-Mikropartikel:	The supplied synthetic polymer microparticles are subject to the conditions of Entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

16. OTHER INFORMATION

Full text risk and hazard codes:
H225: Highly flammable liquid and vapour.
H300: Fatal if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H372: Causes damage to organs through prolonged or repeated exposure.
H412: Harmful to aquatic life with long lasting effects.
EUH441: Strongly accumulates in the environment and living organisms including in humans.

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
Skin Corr.: Skin corrosion
Resp. Sens.: Respiratory sensitization
STOT RE: Specific target organ toxicity - repeated exposure
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
1.2	16/04/2025	Hazardous ingredients update
2.0	27/05/2025	Section 13 update
2.1	21/04/2026	Update to section 2
2.2	09/11/2026	Updates to section 3.2, 6.2, 11.1, 12.1, 15.1

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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