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 numbersAlumasc 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, 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:
H225: Highly 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 storage: P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

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

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 ≥ 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	20.0 - 25.0 % 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	10.0 - 15.0 % by weight
Aliphatic Urethanacrylate		Skin Irrit. 2; H315 Eye Irrit. 2; H319	5.0 - 10.0 % by weight
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

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

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. ACCIDENTIAL 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.

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/m³	Workers	Inhalation	Long term effects Local	Company data
210mg/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
4,5mg/m³	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)Dipropan-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:	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:	Wear suitable protective equipment. Long sleeved clothing
Respiratory protection: Remarks:	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. 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 be- fore 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
Form: Liquid
Odour: Smell of Methyl Methacrylate
Odour threshold: Not available
pH (as supplied): Not available

Melting point/freezing point (°C): -48°C
Pressure:: 1013,25 hPa
Remarks Methyl Methacrylate

Flash point (°C): 10°C
NOTE: Methyl Methacrylate

Evaporation rate [kg/(s m²)]: Not determined
Flammability: Flammable

Explosion limits [Vol-%] The product itself has not been tested

Methyl Methacrylate
Lower Explosive Limit (%): 1,7 vol. %
Upper Explosive Limit (%): 12,5 vol. %
2-Ethylhexyl Acrylate
Lower Explosive Limit (%): 0,9 vol. %
Upper Explosive Limit (%): 6,4 vol. %

Colour: Grey

Boiling Point (°C): >100°C
Pressure: 1013,25 hPa

Vapour pressure (kPa): 37 hPa
Temperature [°C]: 20 °C
NOTE: Methyl Methacrylate
Vapour density (Air = 1): Not determined
Relative density [g/cm³]: 1,33 g/cm³
Pressure: 1013,25 hPa
Temperature [°C]: 20 °C
Water Solubility [g/l]: insoluble
Pressure: 1013,25 hPa
Temperature [°C]: 20 °C
Partition coefficient n-octanol/water (log P O/W): Not determined
Viscosity, dynamic [kg/(m s)]: 1.500 mPas*s
Temperature [°C]: 20 °C
Measuring method: Haake-Viscotester

Explosive properties In use, may form flammable/explosive vapour-air mixture

Oxidising properties: Not relevant

9.2 Other information

Ignition temperature [°C]:	430 °C.
Measuring method:	DIN 51794.
Note:	Methyl Methacrylate.
Relative vapour density (air=1):	For the product of this parameter is not applicable.

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

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)Dipropan-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)Dipropan-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)Dipropan-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)Dipropan-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)Dipropan-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

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

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)Dipropan-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

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

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)Dipropan-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 (water flea)	Company data

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)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

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)Dipropan-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	Desmodesmus 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 preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal:	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 01 11* waste paint and varnish containing organic solvents or other dangerous substances
Uncleaned empty packaging:	The return of packaging materials is regulated by the Interseroh system.

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. 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: 4-5.

16. OTHER INFORMATION

Full text risk and hazard codes:
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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.
EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

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

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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