

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 1206d Issue date: 05/07/2013 Revision date: 13/03/2023 Supersedes version of: 16/12/2022 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name ALSAN PMMA 176 Product code EU-SDS 1206 Product group Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Acute toxicity (oral), Category 4 H302 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335

tract irritation

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP) : Warning

Methyl methacrylate; Butyl acrylate; 1,1'-(p-tolylimino)dipropan-2-ol; 2-hydroxyethyl acrylate; Contains

> 2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 2-oxepanone

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

> H302 - Harmful if swallowed. H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

Precautionary statements (CLP) : 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 hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P321 - Specific treatment (see supplemental first aid instruction on this label).

Extra phrases For professional users only.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl methacrylate substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit (Note D)	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498- 28	25 – 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
crystalline silica: quartz (SiO2) substance with national workplace exposure limit(s) (IE)	CAS-No.: 14808-60-7 EC-No.: 238-878-4 REACH-no: Annex V	20 – 25	Not classified
2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 2-oxepanone	CAS-No.: 153128-88-2 REACH-no: Polymer	10 – 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3 EC-No.: 254-075-1 REACH-no: 01-2119980937- 17	1 – 5	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Paraffin waxes and Hydrocarbon waxes substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 8002-74-2 EC-No.: 232-315-6 REACH-no: 01-2119488076- 30, 01-2119913039-42	0.1 – 1	Not classified
2-hydroxyethyl acrylate (Note D)	CAS-No.: 818-61-1 EC-No.: 212-454-9 EC Index-No.: 607-072-00-8 REACH-no: 01-2119459345- 34	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
crystalline silica: quartz (SiO2) substance with national workplace exposure limit(s) (IE)	CAS-No.: 14808-60-7 EC-No.: 238-878-4 REACH-no: Annex V 7.	0.1 – 1	STOT RE 1, H372
2,6-di-tert-butyl-4-methylphenol substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119480433- 40, 01-2119555270-46, 01- 2119565113-46	0.1 – 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
toluene substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-	0.1 – 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Butyl acrylate substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit (Note D)	CAS-No.: 141-32-2 EC-No.: 205-480-7 EC Index-No.: 607-062-00-3 REACH-no: 01- 211945315543	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

Specific concentration limits:				
Name	Product identifier	Specific concentration limits		
2-hydroxyethyl acrylate	CAS-No.: 818-61-1 EC-No.: 212-454-9 EC Index-No.: 607-072-00-8 REACH-no: 01-2119459345- 34	(0.2 ≤C ≤ 100) Skin Sens. 1, H317		
crystalline silica: quartz (SiO2)	CAS-No.: 14808-60-7 EC-No.: 238-878-4 REACH-no: Annex V 7.	(1 ≤C ≤ 10) STOT RE 2, H373 (10 <c 1,="" 100)="" h372<="" re="" stot="" td="" ≤=""></c>		

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Note D:

Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective

equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

crystalline silica: quartz (SiO2) (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
Remark	(Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations	
Ireland - Occupational Exposure Limits		
Local name	Quartz, respirable dust	
OEL TWA [1]	0.1 mg/m³	
Remark	BOELV (Binding Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
crystalline silica: quartz (SiO2) (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
Remark	(Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations	

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crystalline silica: quartz (SiO2) (14808-60-7)			
Ireland - Occupational Exposure Limits			
Local name	Quartz, respirable dust		
OEL TWA [1]	0.1 mg/m³		
Remark	BOELV (Binding Occupational Exposure Limit Values)		
Regulatory reference	Chemical Agents Code of Practice 2021		
Methyl methacrylate (80-62-6)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Methyl methacrylate		
IOEL TWA [ppm]	50 ppm		
IOEL STEL [ppm]	100 ppm		
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU		
Ireland - Occupational Exposure Limits			
Local name	Methyl methacrylate		
OEL TWA [2]	50 ppm		
OEL STEL [ppm]	100 ppm		
Regulatory reference	Chemical Agents Code of Practice 2020		
Malta - Occupational Exposure Limits			
Local name	Methyl methacrylate		
OEL TWA [ppm]	50 ppm		
OEL STEL [ppm]	100 ppm		
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018)		
United Kingdom - Occupational Exposure Limits	United Kingdom - Occupational Exposure Limits		
Local name	Methyl methacrylate		
WEL TWA (OEL TWA) [1]	208 mg/m³		
WEL TWA (OEL TWA) [2]	50 ppm		
WEL STEL (OEL STEL)	416 mg/m³		
WEL STEL (OEL STEL) [ppm]	100 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
Paraffin waxes and Hydrocarbon waxes (8002	-74-2)		
Ireland - Occupational Exposure Limits			
Local name	Paraffin wax, fume		
OEL TWA [1]	2 mg/m³		
OEL STEL	6 mg/m³		
Regulatory reference	Chemical Agents Code of Practice 2020		
United Kingdom - Occupational Exposure Limits			
Local name	Paraffin wax		
WEL TWA (OEL TWA) [1]	2 mg/m³ fume		
WEL STEL (OEL STEL)	6 mg/m³ fume		

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Paraffin waxes and Hydrocarbon waxes (8002-74-2)				
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE			
toluene (108-88-3)				
EU - Indicative Occupational Exposure Limit (IOEL)	EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Toluene			
IOEL TWA [ppm]	50 ppm			
IOEL STEL	384 mg/m³			
IOEL STEL [ppm]	100 ppm			
Remark	Skin			
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC			
Ireland - Occupational Exposure Limits				
Local name	Toluene			
OEL TWA [1]	192 mg/m³			
OEL TWA [2]	50 ppm			
OEL STEL	384 mg/m³			
OEL STEL [ppm]	100 ppm			
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)			
Regulatory reference	Chemical Agents Code of Practice 2021			
Ireland - Biological limit values				
Local name	Toluene			
BMGV	0.02 mg/l Parameter: toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: toluene - Medium: urine - Sampling time: End of shift 0.3 mg/g creatinine Parameter: o-cresol - Medium: urine - Sampling time: End of shift - Notations: B (Background)			
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)			
Malta - Occupational Exposure Limits				
Local name	Toluene			
OEL TWA	192 mg/m³			
OEL TWA [ppm]	50 ppm			
OEL STEL	384 mg/m³			
OEL STEL [ppm]	100 ppm			
Remark	Skin # Ġilda			
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)			
United Kingdom - Occupational Exposure Limits				
Local name	Toluene			
WEL TWA (OEL TWA) [1]	191 mg/m³			
WEL TWA (OEL TWA) [2]	50 ppm			
WEL STEL (OEL STEL)	384 mg/m³			
WEL STEL (OEL STEL) [ppm]	100 ppm			

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toluene (108-88-3)	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Butyl acrylate (141-32-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butylacrylate
IOEL TWA	11 mg/m³
IOEL TWA [ppm]	2 ppm
IOEL STEL	53 mg/m³
IOEL STEL [ppm]	10 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	n-Butyl acrylate
OEL TWA [1]	11 mg/m³
OEL TWA [2]	2 ppm
OEL STEL	53 mg/m³
OEL STEL [ppm]	10 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2021
Malta - Occupational Exposure Limits	
Local name	n-Butylacrylate
OEL TWA	11 mg/m³
OEL TWA [ppm]	2 ppm
OEL STEL	53 mg/m³
OEL STEL [ppm]	10 ppm
Regulatory reference	S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)
United Kingdom - Occupational Exposure Limits	
Local name	n-Butyl acrylate
WEL TWA (OEL TWA) [1]	5 mg/m³
WEL TWA (OEL TWA) [2]	1 ppm
WEL STEL (OEL STEL)	26 mg/m³
WEL STEL (OEL STEL) [ppm]	5 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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2,6-di-tert-butyl-4-methylphenol (128-37-0)		
Ireland - Occupational Exposure Limits		
Local name	2,6-Ditertiary-butyl-para-cresol [Butylated hydroxytoluene (BHT)]	
OEL TWA [1]	2 mg/m³	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	2,6-Di-tert-butyl-p-cresol	
WEL TWA (OEL TWA) [1] 10 mg/m³		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid : Colourless. Colour **Appearance** Cloudy. Odour characteristic. Odour threshold Not available Melting point Not available Freezing point : Not available : > 35 °C Boiling point Flammability : Not applicable **Explosive limits** : Not available Lower explosion limit Not available : Not available Upper explosion limit : 29 °C Flash point Auto-ignition temperature Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : 12711.864 mm²/s Viscosity, dynamic : 15000 mPa.s Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : 158 hPa Density : 1.18 g/cm³ Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined	d in Regulation (EC) No 1272/2008
Acute toxicity (dermal)	Harmful if swallowed. Not classified Not classified
ALSAN PMMA 176	
ATE CLP (oral)	1633.987 mg/kg bodyweight
Methyl methacrylate (80-62-6)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	≥ 50 mg/l/4h
Paraffin waxes and Hydrocarbon waxes (8002	2-74-2)
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77
LC50 Inhalation - Rat (Vapours)	28.1 (25.7 – 30) mg/l/4h OECD 403
Butyl acrylate (141-32-2)	
LD50 oral rat	≈ 3150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat (Vapours)	10.3 mg/l
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat	≥ 25 (25 – 200) mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:EU Method B.3 (Acute Toxicity ((Dermal)), Guideline: other:Japan MAFF Testing Guideline of 12 Nosan No. 8147
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
LD50 oral rat	> 2930 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
2-hydroxyethyl acrylate (818-61-1)	
LD50 oral rat	540 mg/kg bodyweight Animal: rat, Animal sex: male, 95% CL: 390 - 750
LD50 dermal rat	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation :	Causes skin irritation.

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Serious eye damage/irritation Respiratory or skin sensitisation	: Causes serious eye irritation.: May cause an allergic skin reaction.
toluene (108-88-3)	
Additional information	(OECD 406 method)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type toxicity (migrated information)
Reproductive toxicity	: Not classified
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3	
NOAEL (animal/male, F0/P)	40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA, OPPTS 870.3650 (Combined Repeated dose toxicity study with the reproduction/developmental toxicity screening test)
NOAEL (animal/female, F0/P)	20 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA, OPPTS 870.3650 (Combined Repeated dose toxicity study with the reproduction/developmental toxicity screening test)
STOT-single exposure	: May cause respiratory irritation.
Methyl methacrylate (80-62-6)	
STOT-single exposure	May cause respiratory irritation.
toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Butyl acrylate (141-32-2)	
STOT-single exposure	May cause respiratory irritation.
2-hydroxyethyl acrylate (818-61-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
crystalline silica: quartz (SiO2) (14808-60-7))
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
toluene (108-88-3)	
LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90 Day Study)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
•	
ALSAN PMMA 176	
•	12711.864 mm²/s
ALSAN PMMA 176	12711.864 mm²/s

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Paraffin waxes and Hydrocarbon waxes (8002-74-2)		
Viscosity, kinematic	Not applicable	
toluene (108-88-3)		
Viscosity, kinematic	≈ 0.647 mm²/s	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Viscosity, kinematic	Not applicable	
2,6-di-tert-butyl-4-methylphenol (128-37-0)		
Viscosity, kinematic	Not applicable	
2-hydroxyethyl acrylate (818-61-1)		
Viscosity, kinematic	10170.294 mm²/s	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

Methyl methacrylate (80-62-6)				
LC50 - Fish [1]	> 191 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)			
LC50 - Fish [2]	> 79 mg/l			
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	> 170 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	> 110 mg/l			
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC chronic fish	9.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'			
NOEC chronic crustacea	48 mg/l			
NOEC chronic algae	49 mg/l			
toluene (108-88-3)				
LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch			
EC50 - Crustacea [1]	3.78 mg/l Ceriodaphnia dubia, 48h (US-EPA)			
EC50 72h - Algae [1]	134 mg/l freshwater algae			
ErC50 algae	134 mg/l Chlamydomonas angulosa; 3 h			
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'			

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toluene (108-88-3)	
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
NOEC chronic crustacea	0.74 mg/l Niederlehner (1998) : 7d
NOEC chronic algae	10 mg/l
Butyl acrylate (141-32-2)	
EC50 96h - Algae [1]	2.65 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic crustacea	0.136 mg/l (Daphnia magna, OECD 211, semi-static)
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LC50 - Fish [1]	17 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	28.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	245 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
LC50 - Fish [1]	0.199 mg/l
EC50 - Crustacea [1]	0.48 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	0.758 mg/l
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.053 mg/l Test organisms (species): Oryzias latipes Duration: '42 d'
2-hydroxyethyl acrylate (818-61-1)	
LC50 - Fish [1]	3.61 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	4.8 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	9.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

toluene (108-88-3)		
Biodegradation 86 % 20d		
Butyl acrylate (141-32-2)		
Persistence and degradability Readily biodegradable.		

12.3. Bioaccumulative potential

toluene (108-88-3)		
	BCF - Fish [1]	≈ 90 mg/kg Freitag et al (1985): 3d
	Partition coefficient n-octanol/water (Log Kow)	2.73 20°C

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
UN 1263	UN 1263	UN 1263	UN 1263	UN 1263	
14.2. UN proper shippin	g name				
PAINT	PAINT	Paint	PAINT	PAINT	
Transport document descr	iption				
UN 1263 PAINT, 3, III, (D/E)	UN 1263 PAINT, 3, III (29°C c.c.)	UN 1263 Paint, 3, III	UN 1263 PAINT, 3, III	UN 1263 PAINT, 3, III	
14.3. Transport hazard o	class(es)				
3	3	3	3	3	
3	3	3	3	3	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental haz	ards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary informatio	•				

14.6. Special precautions for user

Special transport precautions : Single packagings ≤ 450L (ADR/ADN/RID 2.2.3.1.5 & IMDG 2.3.2.5) --> Not regulated -

Exemption ADR/ADN/RID/IMDG (Label elements + ADR 1.1.3.6 + Transport document)

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 163, 367, 650

Limited quantities (ADR) : 5I

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Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30

Orange plates : T

30 1263

Tunnel restriction code (ADR) : D/E EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 163, 223, 367, 955

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : P001, LP01 Packing instructions (IMDG) Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) T2 TP1, TP29 Tank special provisions (IMDG) EmS-No. (Fire) F-E EmS-No. (Spillage) : S-E Stowage category (IMDG)

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3, A72, A192

ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 163, 367, 650

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 163, 367, 650

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19

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Portable tank and bulk container instructions (RID) : T2
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

Decopaint Directive (2004/42/EC) - Annex II : A/j (Paints and Varnishes - Two-pack reactive performance coatings for specific end use

such as floors)

Maximum allowed concentration : 500 g/l VOC Maximum content of VOC : 5.29 g/l VOC

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Full text of H- and EUF	I-statements:
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2

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Full text of H- and EUH-statements:			
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2		
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H300	Fatal if swallowed.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H310	Fatal in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H361d	Suspected of damaging the unborn child.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Repr. 2	Reproductive toxicity, Category 2		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.