

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

1.1. Product identifier

Product form : Mixture

Trade name ALSAN PMMA 770 Product code EU-SDS 1201 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 Skin corrosion/irritation, Category 2 H315 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. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction.

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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; 2-hydroxyethyl methacrylate; dodecane-1-thiol; 2-ethylhexyl acrylate Contains

(2-EHA)

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

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. 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 Restricted to professional users.

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	10 – 20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
2-ethylhexyl acrylate (2-EHA) (Note D)	CAS-No.: 103-11-7 EC-No.: 203-080-7 EC Index-No.: 607-107-00-7 REACH-no: 01-2119453158- 37	10 – 20	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-	1 – 5	Flam. Liq. 3, H226 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dioxotitanium substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 REACH-no: 01-2119489379- 17	0.1 – 1	Not classified
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3 EC-No.: 254-075-1 REACH-no: 01-2119980937- 17	0.1 – 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics substance with a Community workplace exposure limit (Note P)	CAS-No.: 64742-48-9 EC-No.: 919-857-5 REACH-no: 01-2119463258- 33	0.1 – 1	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
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 methacrylate (Note D)	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X REACH-no: 01-2119490169-	0.1 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
xylenes (m-, o-, p-) substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119486136- 34, 01-2119488216-32	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304
n-butyl acetate substance with national workplace exposure limit(s) (IE, GB); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493-	0.1 – 1	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
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	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethylbenzene substance with national workplace exposure limit(s) (IE, MT, GB); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: xylenes	< 0.1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	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
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- 51	< 0.1	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
mequinol substance with national workplace exposure limit(s) (IE)	CAS-No.: 150-76-5 EC-No.: 205-769-8 EC Index-No.: 604-044-00-7 REACH-no: 01-2119541813-	< 0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
dodecane-1-thiol substance with national workplace exposure limit(s) (IE)	CAS-No.: 112-55-0 EC-No.: 203-984-1 REACH-no: 01-2119491318- 31	< 0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
methacrylic acid substance with national workplace exposure limit(s) (IE, GB) (Note D)	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884- 26	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 STOT SE 3, H335

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
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>
methacrylic acid	CAS-No.: 79-41-4 EC-No.: 201-204-4 EC Index-No.: 607-088-00-5 REACH-no: 01-2119463884- 26	(1 ≤C ≤ 100) STOT SE 3, H335

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the

supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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'.

Note P: Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than

0.1% w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note

applies only to certain complex oil-derived substances in Part 3.

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

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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 eyes with water as a precaution.

First-aid measures after ingestion : 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. Repeated exposure may cause skin dryness

or cracking.

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.

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.

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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

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	

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Butyl acrylate (141-32-2)		
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	
toluene (108-88-3)		
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)	

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toluene (108-88-3)		
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	
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	
Paraffin waxes and Hydrocarbon waxes (800)	2-74-2)	
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	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
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	

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Methyl methacrylate (80-62-6)		
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		
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	
2-methoxy-1-methylethyl acetate (108-65-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Methoxy-1-methylethylacetate	
IOEL TWA	275 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	550 mg/m³	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	2-Methoxy-1-methylethylacetate	
OEL TWA [1]	275 mg/m³	
OEL TWA [2]	50 ppm	
OEL STEL	550 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	
Malta - Occupational Exposure Limits		
Local name	2-Methoxy-1-methylethyl acetate	
OEL TWA	275 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	550 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)	

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2-methoxy-1-methylethyl acetate (108-65-6)			
United Kingdom - Occupational Exposure Limits			
Local name	1-Methoxypropyl acetate		
WEL TWA (OEL TWA) [1]	274 mg/m³		
WEL TWA (OEL TWA) [2]	50 ppm		
WEL STEL (OEL STEL)	548 mg/m³		
WEL STEL (OEL STEL) [ppm]	100 ppm		
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		
n-butyl acetate (123-86-4)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	n-Butyl acetate		
IOEL TWA [ppm]	50 ppm		
IOEL STEL	723 mg/m³		
IOEL STEL [ppm]	150 ppm		
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831		
Ireland - Occupational Exposure Limits			
Local name	n-Butyl acetate		
OEL TWA [1]	241 mg/m³		
OEL TWA [2]	50 ppm		
OEL STEL	723 mg/m³		
OEL STEL [ppm]	150 ppm		
Regulatory reference	Chemical Agents Code of Practice 2021		
United Kingdom - Occupational Exposure Limits			
Local name	Butyl acetate		
WEL TWA (OEL TWA) [1]	724 mg/m³		
WEL TWA (OEL TWA) [2]	150 ppm		
WEL STEL (OEL STEL)	966 mg/m³		
WEL STEL (OEL STEL) [ppm]	200 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
2,6-di-tert-butyl-4-methylphenol (128-37-0)	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		

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methacrylic acid (79-41-4)		
Ireland - Occupational Exposure Limits		
Local name	Methacrylic acid	
OEL TWA [1]	70 mg/m³	
OEL TWA [2]	20 ppm	
OEL STEL	140 mg/m³	
OEL STEL [ppm]	40 ppm	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	Methacrylic acid	
WEL TWA (OEL TWA) [1]	72 mg/m³	
WEL TWA (OEL TWA) [2]	20 ppm	
WEL STEL (OEL STEL)	143 mg/m³	
WEL STEL (OEL STEL) [ppm]	40 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
mequinol (150-76-5)		
Ireland - Occupational Exposure Limits		
Local name	4-Methoxyphenol [Mequinol]	
OEL TWA [1]	5 mg/m³	
Regulatory reference	Chemical Agents Code of Practice 2021	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	White spirit Type 3	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	290 mg/m³	
IOEL STEL [ppm]	50 ppm	
Remark	Skin. (Year of adoption 2007)	
Regulatory reference	SCOEL Recommendations	
dodecane-1-thiol (112-55-0)		
Ireland - Occupational Exposure Limits		
Local name	Dodecyl mercaptan	
OEL TWA [2]	0.1 ppm	
Remark	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	

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EU - Indicativo Occupational Exposure Limit (10EU - Local name Silica crystaline (Quartz) Remark (Year of adoption, 2003) Regulatory reference SCOEL Recommendations Ireland - Occupational Exposure Limits Local name Del. TWA [1] 0.1 mg/m² Remark BOELV (Binding Occupational Exposure Limit Values) Regulatory reference Chemical Agents Code of Practice 2021 dioxottanium (13463-67-7) Trianium dioxide Prolated - Occupational Exposure Limits Local name Tilanium dioxide Cel. TWA [1] 10 mg/m² total inhalable dust 4 mg/m² respirable dust Regulatory reference Tilanium dioxide 10 mg/m² total inhalable dust Regulatory reference Tilanium dioxide 10 mg/m² total inhalable dust WEL TWA (PI) 4 mg/m² respirable dust 10 mg/m² total inhalable dust WEL TWA (PI) 4 mg/m² respirable dust 10 mg/m² total inhalable dust WEL TWA (PI) 4 mg/m² respirable dust 10 mg/m² total inhalable WEL TWA (PI) 4 mg/m² respirable 10 mg/m² total inhalable Regulatory reference EN HAUSOS (Fourth edition, 2020), HSE			
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Regulatory reference Chemical Agents Code of Practice 2021 Indianal Cocupational Exposure Limits	OEL TWA [1]	0.1 mg/m³	
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Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Ireland - Occupational Exposure Limits Local name Xylene, mixed isomers OEL TWA [1] 221 mg/m³ OEL TWA [2] 50 ppm OEL STEL OEL STEL OEL STEL [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)	IOEL STEL [ppm]	100 ppm	
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OEL TWA [2] 50 ppm OEL STEL 442 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)	Local name	Xylene, mixed isomers	
OEL STEL [ppm] 442 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)	OEL TWA [1]	221 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)	OEL TWA [2]	50 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)	OEL STEL	442 mg/m³	
contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	OEL STEL [ppm]	100 ppm	
Regulatory reference Chemical Agents Code of Practice 2021	Remark	contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure	
	Regulatory reference	Chemical Agents Code of Practice 2021	

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xylenes (m-, o-, p-) (1330-20-7)		
Ireland - Biological limit values		
Local name	Xylene	
BMGV	1.5 g/g creatinine Parameter: methylhippuric acids - Medium: urine - Sampling time: End of Shift	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
Malta - Occupational Exposure Limits		
Local name	Xylene, mixed isomers, pure # Xylene,Isomeri mhallta, puri	
OEL TWA	221 mg/m³	
OEL TWA [ppm]	50 ppm	
OEL STEL	442 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	Xylene	
WEL TWA (OEL TWA) [1]	220 mg/m³ o-,m-,p- or mixed isomers	
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers	
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	
United Kingdom - Biological limit values		
Local name	Xylene, o-, m-, p- or mixed isomers	
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Ethylbenzene (100-41-4)		
EU - Indicative Occupational Exposure Limit (IOEL		
Local name	Ethylbenzene	
IOEL TWA	442 mg/m³	
IOEL TWA [ppm]	100 ppm	
IOEL STEL	884 mg/m³	
IOEL STEL [ppm]	200 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Ethylbenzene	
OEL TWA [1]	442 mg/m³	
OEL TWA [2]	100 ppm	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Ethylbenzene (100-41-4)	Ethylbenzene (100-41-4)	
OEL STEL	884 mg/m³	
OEL STEL [ppm]	200 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	Ethyl benzene	
BMGV	0.7 g/g creatinine Parameter: mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns (Non-specific), Sq (Semi-quantitative) Parameter: ethylbenzene - Medium: end-exhaled air - Sampling time: Not critical - Notations: Sq (Semi-quantitative)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
Malta - Occupational Exposure Limits		
Local name	Ethylbenzene	
OEL TWA	442 mg/m³	
OEL TWA [ppm]	100 ppm	
OEL STEL	884 mg/m³	
OEL STEL [ppm]	200 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	Ethylbenzene	
WEL TWA (OEL TWA) [1]	441 mg/m³	
WEL TWA (OEL TWA) [2]	100 ppm	
WEL STEL (OEL STEL)	552 mg/m³	
WEL STEL (OEL STEL) [ppm]	125 ppm	
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	

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

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour Various colours. Odour characteristic. Odour threshold : Not available Not available Melting point Freezing point Not available Boiling point Not available Flammability Not applicable **Explosive limits** Not available Lower explosion limit Not available Upper explosion limit Not available 30 °C

Flash point Auto-ignition temperature Not available Decomposition temperature Not available рΗ : Not available Viscosity, kinematic 2016.129 mm²/s : 2500 mPa.s Viscosity, dynamic Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : 159 hPa : 1.24 g/cm³ Density

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

riodio toxiony (iliidianoli)	. Not diagoniou	
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	
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	

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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	
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)	
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	
2-methoxy-1-methylethyl acetate (108-65-6)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:	
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)	
methacrylic acid (79-41-4)		
LD50 oral rat	1320 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	500 – 1000 mg/kg bodyweight Animal: rabbit, Guideline: other:	
LC50 Inhalation - Rat	3.19 – 6.5 mg/l/4h OECD 403	
2-hydroxyethyl methacrylate (868-77-9)		
LD50 oral rat	5564 mg/kg bodyweight Animal: rat, Guideline: other:	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male	
mequinol (150-76-5)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal rabbit	≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
dodecane-1-thiol (112-55-0)		
LD50 oral rat	≥ 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:	

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dodecane-1-thiol (112-55-0)	dodecane-1-thiol (112-55-0)		
LC50 Inhalation - Rat	≥ 7.04 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:		
dioxotitanium (13463-67-7)			
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)		
2-ethylhexyl acrylate (2-EHA) (103-11-7)			
LD50 oral rat	≈ 4435 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
LD50 dermal rabbit	7522 mg/kg bodyweight Animal: rabbit		
LC50 Inhalation - Rat	≥ 50 mg/l/4h		
xylenes (m-, o-, p-) (1330-20-7)			
LD50 oral rat	3523 mg/kg		
LD50 dermal rabbit	1700 (≥ 1700) mg/kg		
LC50 Inhalation - Rat	29000 mg/m³		
Ethylbenzene (100-41-4)			
LD50 oral rat	≈ 3500 mg/kg bodyweight Animal: rat		
LC50 Inhalation - Rat	27124 mg/m³		
Skin corrosion/irritation	: Causes skin irritation.		
n-butyl acetate (123-86-4)			
рН	6.2 Temp.: 20 °C Concentration: (≈)5 g/L		
dodecane-1-thiol (112-55-0)			
Skin corrosion/irritation, rabbit	4 h/day (14 days)		
Serious eye damage/irritation	: Not classified		
n-butyl acetate (123-86-4)			
рН	6.2 Temp.: 20 °C Concentration: (≈)5 g/L		
Respiratory or skin sensitisation	: May cause an allergic skin reaction.		
toluene (108-88-3)			
Additional information	(OECD 406 method)		
dodecane-1-thiol (112-55-0)			
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)		

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
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.	
Butyl acrylate (141-32-2)		
STOT-single exposure	May cause respiratory irritation.	
toluene (108-88-3)		
STOT-single exposure	May cause drowsiness or dizziness.	
Methyl methacrylate (80-62-6)		
STOT-single exposure	May cause respiratory irritation.	
2-methoxy-1-methylethyl acetate (108-65-6)		
STOT-single exposure	May cause drowsiness or dizziness.	
, central nervous system, subacute		
n-butyl acetate (123-86-4)		
LOAEC (inhalation, rat, dust/mist/fume)	7.2 mg/l neurotoxicity: sub-chronic inhalation (40 CFR Part 798.2450)	
NOAEC (inhalation, rat, dust/mist/fume)	2.4 mg/l neurotoxicity: sub-chronic inhalation (40 CFR Part 798.2450)	
methacrylic acid (79-41-4)		
STOT-single exposure	May cause respiratory irritation.	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)		
NOAEC (inhalation, rat, gas)	6646 ppm >24,3 g/m3	
NOAEC, mammalian, subchronic, Inhalation, mouse, Neurologic effect.	> 24,3 mg/l (13 weeks)	
2-ethylhexyl acrylate (2-EHA) (103-11-7)		
STOT-single exposure	May cause respiratory irritation.	
xylenes (m-, o-, p-) (1330-20-7)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
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.	
2-methoxy-1-methylethyl acetate (108-65-6)		
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	

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methacrylic acid (79-41-4)		
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)	
2-hydroxyethyl methacrylate (868-77-9)		
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:	
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:	
mequinol (150-76-5)		
LOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
dodecane-1-thiol (112-55-0)		
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.06 mg/l/6h/day Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.01 mg/l Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)	
LOAEC, mammalian, subacute, Inhalation, local	70 mg/m³ ((Ulrich, 1985; Klimisch score = 2))	
LOAEC, mammalian, subacute, Inhalation, Dog, local	20 mg/m³ ((Ulrich, 1985))	
crystalline silica: quartz (SiO2) (14808-60-7)		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
xylenes (m-, o-, p-) (1330-20-7)		
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)	
Ethylbenzene (100-41-4)		
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.	
'	Not classified	
ALSAN PMMA 770		
Viscosity, kinematic	2016.129 mm²/s	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Viscosity, kinematic	Not applicable	
toluene (108-88-3)		
toluene (108-88-3) Viscosity, kinematic	≈ 0.647 mm²/s	

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Methyl methacrylate (80-62-6)		
Viscosity, kinematic	0.564 mm²/s	
n-butyl acetate (123-86-4)		
Viscosity, kinematic	0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	
2,6-di-tert-butyl-4-methylphenol (128-37-0)		
Viscosity, kinematic	Not applicable	
methacrylic acid (79-41-4)		
Viscosity, kinematic	1.366 mm²/s	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)		
Viscosity, kinematic	1.33 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'	
Hydrocarbon	Yes	
xylenes (m-, o-, p-) (1330-20-7)		
Viscosity, kinematic	740000 (581000 – 760000) mm²/s 20°C	
Hydrocarbon	Yes	

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.

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

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)	
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)	
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	
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	
2-methoxy-1-methylethyl acetate (108-65-6)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes	
EC50 - Crustacea [1]	> 500 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'	
n-butyl acetate (123-86-4)		
LC50 - Fish [1]	18 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	44 mg/l Test organisms (species): Daphnia sp.	
EC50 72h - Algae [1]	674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
NOEC (chronic)	23 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic crustacea	23 mg/l Daphnia magna, (OECD 211; read across: isobutyl acetate (CAS 110-19-0); CERI, 2000)	
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'	

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methacrylic acid (79-41-4)	
LC50 - Fish [1]	85 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 130 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	45 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'
2-hydroxyethyl methacrylate (868-77-9)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	380 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	836 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	345 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	49.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	24.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
mequinol (150-76-5)	
LC50 - Fish [1]	28.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	54.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	19 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
dodecane-1-thiol (112-55-0)	
LC50 - Fish [1]	100 (≥ 100) mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1 (1 – 10) mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.0145 mg/l OECD guideline 201
dioxotitanium (13463-67-7)	
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2-ethylhexyl acrylate (2-EHA) (103-11-7)	
LC50 - Fish [1]	1.81 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.3 mg/l Test organisms (species): Daphnia magna

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0 -thulls and - and-to (0 EUA) (400 44 T)		
2-ethylhexyl acrylate (2-EHA) (103-11-7)		
EC50 72h - Algae [1]	1.71 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
NOEC chronic crustacea	0.19 mg/l QSAR	
NOEC chronic algae	0.45 mg/l OECD 201	
xylenes (m-, o-, p-) (1330-20-7)		
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia	
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'	
Ethylbenzene (100-41-4)		
LC50 - Fish [1]	5.1 mg/l Test organisms (species): Menidia menidia	
LC50 - Fish [2]	4.2 mg/l Oncorhynchus mykiss (fresh water)	
EC50 - Crustacea [1]	1.8 (1.8 – 2.4) mg/l Daphnia magna	
EC50 - Crustacea [2]	3.2 mg/l Ceriodaphnia dubia	
EC50 - Other aquatic organisms [1]	2.6 mg/l mysid shrimp	
EC50 72h - Algae [1]	5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum	
EC50 96h - Algae [1]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [2]	7.7 mg/l Test organisms (species): Skeletonema costatum	
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'	
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'	
NOEC chronic crustacea	1 mg/l Ceriodaphnia dubia	
NOEC chronic algae	3.4 mg/l	

12.2. Persistence and degradability

Butyl acrylate (141-32-2)		
Persistence and degradability	Readily biodegradable.	
toluene (108-88-3)		
Biodegradation	86 % 20d	
n-butyl acetate (123-86-4)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	83 % OECD 301 D; Waggy et al., 1994 (80% after 5 d and 83% after 28 d)	
2-ethylhexyl acrylate (2-EHA) (103-11-7)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	80 % 15d	

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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	
n-butyl acetate (123-86-4)		
Bioconcentration factor (BCF REACH)	15 estimated from measured log Kow; ECT, 2009	
Partition coefficient n-octanol/water (Log Kow)	2.3 OXEA, 2009; T10198	
dodecane-1-thiol (112-55-0)		
Partition coefficient n-octanol/water (Log Kow)	6.18 read across from tert-dodecanethiol	
2-ethylhexyl acrylate (2-EHA) (103-11-7)		
Bioconcentration factor (BCF REACH)	282	

12.4. Mobility in soil

2-ethylhexyl acrylate (2-EHA) (103-11-7)	
Surface tension 68.2 mN/m 20°C	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.74

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

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

Additional information : 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 n	umber			
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 (30°C c.c.)	UN 1263 Paint, 3, III	UN 1263 PAINT, 3, III	UN 1263 PAINT, 3, III

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ADR	IMDG	IATA ADN		RID	
14.3. Transport hazard	class(es)				
3	3	3	3	3	
3	3	3	3	3	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental ha	zards				
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 information	on available	1	1	1	

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 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 : IBC03 IBC packing instructions (IMDG) : T2 Tank instructions (IMDG) Tank special provisions (IMDG) TP1, TP29 EmS-No. (Fire) F-E EmS-No. (Spillage) : S-E Stowage category (IMDG) : A

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

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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
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)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
30.	2-methoxypropyl acetate	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.

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

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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 : 36.00 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

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

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Abbreviations and acr	Abbreviations and acronyms:	
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	H-statements:
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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
EUH066	Repeated exposure may cause skin dryness or cracking.
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.

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Full text of H- and EUI	H-statements:
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful 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. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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

The classification complies with

: ATP 12

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.