

Safety Data Sheet

MAPECOAT FINISH TS / A

Safety Data Sheet dated: 04/02/2020 - version 2



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

1.1. Product identifier

Mixture identification:

Trade name: MAPECOAT FINISH TS / A

Trade code: 9025182

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

Recommended use: Polyurethanic coating

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel: +39-02-376731

Fax: +39-02-37673.214

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

MAPEI S.p.A. - Tel. +(39)02376731 - (office hours)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

STOT SE 3 May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) n. 1272/2008 (CLP)

Pictograms and Signal Words



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P312 Call a POISON CENTER if you feel unwell.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene); α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.

EUH208 Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

EUH208 Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.

Contains:

n-butyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients**3.1. Substances**

N.A.

3.2. Mixtures

Mixture identification: MAPECOAT FINISH TS / A

Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥20 - <25 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29-xxxx
≥10 - <20 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226	01-2119475791-29-xxxx
≥0.49 - <1 %	A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	EC:400-830-7 Index:607-176-00-3	Skin Sens. 1, H317; Aquatic Chronic 2, H411	01-0000015075-76-xxxx
≥0.1 - <0.25 %	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS:1065336-91-5 EC:915-687-0	Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1	01-2119491304-40-xxxx
≥0.1 - <0.25 %	2-hydroxyethyl methacrylate	CAS:868-77-9 EC:212-782-2	Eye Irrit. 2, H319; Skin Sens. 1B, H317	01-2119490169-29-xxxx

SECTION 4: First aid measures**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
n-butyl acetate	SUVA	NNN		480	100	960	200		
	National	SWEDEN		500	100	700	150		SWEDEN, Short-term value, 15 minutes average value

NDS	NNN		200			
NDSch	NNN		950			
ACGIH	NNN			50	150	Eye and URT irr
National	NORWAY		710	150	1420	300
DFG	GERMANY	C			960	200
ACGIH				50		150
						eye and upper respiratory tract irritation (listed under Butyl acetates, all isomers)
National	SWEDEN		500	100		
National	FRANCE		710	150	940	200
National	SPAIN		724	150	965	200
National	GREECE		710	150	950	200
National	DENMARK		710	150		
National	FINLAND		720	150	960	200
National	GERMANY		300	62		
National	PORTUGAL			150		200
National	BELGIUM		723	150	964	200
NDS	POLAND		240			
NDSch	POLAND				720	
CHE	SWITZERLAND				960	200
National	CZECHIA		950			
National	HUNGARY		950		950	
Malaysia OEL	MALAYSIA		713	150		
National	LATVIA		200			
National	CZECHIA	C			1200	
National	SLOVAKIA	C			700	
National	SLOVAKIA		500	100		
National	SLOVENIA		480	100	480	100
National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		724	150	966	200
National	BULGARIA		710		950	
National	ROMANIA		715	150	950	200
National	CROATIA		724	150	966	200
ACGIH	NNN		275	50	550	100
						Skin
SUVA	NNN		275	50		
National	SWEDEN		250	50	400	75
						SWEDEN, Short-term value, 15 minutes average value
National	FINLAND		270	50	550	100
						FINLAND, hud
National	NORWAY		270	50		
NDS	NNN		260			NORWAY, H

NDSch	NNN	520					
EU	NNN	275	50	550	100	Skin	
National	NORWAY	275	50	550	100		
DFG	GERMANY	C		270	50		
National	SWEDEN	275	50				
National	FRANCE	275	50	550	100		
National	SPAIN	275	50	550	100		
National	GREECE	275	50	550	100		
National	DENMARK	275	50				
National	FINLAND	270	50	550	100		
National	GERMANY	270	50				
National	PORTUGAL	275	50	550	100		
National	NORWAY	270	50	337,5	75		
National	BELGIUM	275	50	550	100		
NDS	POLAND	260					
NDSch	POLAND			520			
CHE	SWITZERLAND			275	50		
NDS	NETHERLANDS	550					
National	CZECHIA	270					
National	HUNGARY	275		550			
National	ESTONIA	275	50	550	100		
National	LATVIA	275	50	550	100		
National	CZECHIA	C		550			
National	SLOVAKIA	C		550			
National	SLOVAKIA	275	50				
National	SLOVENIA	275	50	550	100		
National	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	274	50	548	100		
National	BULGARIA	275,0	50	550,0	100		
National	ROMANIA	275	50	550	100		
TUR	TURKEY	275	50	550	100		
National	LITHUANIA	250	50	400	75		
National	CROATIA	275	50	550	100		
EU		275	50	550	100	Indicative	Possibility of significant uptake through the skin
2-hydroxyethyl methacrylate	National	NORWAY	11	2	16,5	4	
	National	LITHUANIA	20				

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
n-butyl acetate	123-86-4	1,18 mg/l	Fresh Water		
		0,018 mg/l	Marine water		
		0,981 mg/kg	Freshwater sediments		

		0,0981 mg/kg	Marine water sediments
		0,36 mg/l	Intermittent release
		0,0903 mg/kg	Soil
2-methoxy-1-methylethyl acetate	108-65-6	0,635 mg/l	Fresh Water
		0,0635 mg/l	Marine water
		3,29 mg/kg	Freshwater sediments
		0,329 mg/kg	Marine water sediments
		6,35 mg/l	Intermittent release
		100 mg/l	Microorganisms in sewage treatments
		0,29 mg/kg	Soil
A mixture of: α-3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4- hydroxyphenyl)propionyl- ω- hydroxypoly (oxyethylene); α-3-(3- (2H-benzotriazol-2-yl)-5- tert-butyl-4- hydroxyphenyl)propionyl- ω-3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4- hydroxyphenyl) propionyloxypoly (oxyethylene)		0,0023 mg/l	Fresh Water
		0,00023 mg/l	Marine water
		3,06 mg/kg	Freshwater sediments
		0,306 mg/kg	Marine water sediments
		0,028 mg/l	Intermittent release
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	1065336- 91-5	0,0022 mg/l	Fresh Water
		0,00022 mg/l	Marine water
		0,009 mg/l	Intermittent release
		1,05 mg/kg	Freshwater sediments
		0,11 mg/kg	Marine water sediments
		0,21 mg/kg	Soil

		1 mg/l	Microorganisms in sewage treatments
2-hydroxyethyl methacrylate	868-77-9	0,482 mg/l	Fresh Water
		0,482 mg/l	Marine water
		3,79 mg/kg	Marine water sediments
		3,79 mg/kg	Freshwater sediments
		10 mg/l	Microorganisms in sewage treatments
		1 mg/l	Intermittent release

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
n-butyl acetate	123-86-4	960 mg/m3			Human Inhalation	Short Term, systemic effects	
		960 mg/m3			Human Inhalation	Short Term, local effects	
		480 mg/m3			Human Inhalation	Long Term, systemic effects	
		480 mg/m3			Human Inhalation	Long Term, local effects	
				859,7 mg/m3	Human Inhalation	Short Term, systemic effects	
				859,7 mg/m3	Human Inhalation	Short Term, local effects	
				102,34 mg/m3	Human Inhalation	Long Term, systemic effects	
				102,34 mg/m3	Human Inhalation	Long Term, local effects	
2-methoxy-1- methylethyl acetate	108-65-6	796 mg/kg		320 mg/kg	Human Dermal	Long Term, systemic effects	
		275 mg/m3		33 mg/m3	Human Inhalation	Long Term, systemic effects	
				36 mg/kg	Human Oral	Long Term, systemic effects	
		550 mg/m3			Human Inhalation	Short Term, local effects	
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)		0,35 mg/m3		0,085 mg/m3	Human Inhalation	Long Term, systemic effects	

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5	0,5 mg/kg	0,25 mg/kg	Human Dermal	Long Term, systemic effects
			0,025 mg/kg	Human Oral	Long Term, systemic effects
		2,5 mg/kg	1,25 mg/kg	Human Dermal	Short Term, systemic effects
		2,35 mg/m3	0,58 mg/m3	Human Inhalation	Short Term, systemic effects
		2,35 mg/m3	0,58 mg/m3	Human Inhalation	Long Term, systemic effects
		2,5 mg/kg	1,25 mg/kg	Human Dermal	Long Term, systemic effects
			1,25 mg/kg	Human Oral	Short Term, systemic effects
			1,25 mg/kg	Human Oral	Long Term, systemic effects
			0,83 mg/kg	Human Oral	Long Term, systemic effects
		1,3 mg/kg	0,83 mg/kg	Human Dermal	Long Term, systemic effects
2-hydroxyethyl methacrylate	868-77-9	4,9 mg/m3	2,9 mg/m3	Human Inhalation	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Use adequate protective respiratory equipment.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Liquid transparent

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 77 °C (171 °F)

Flash point: 25 °C (77 °F)

Evaporation rate: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: N.A.
Partition coefficient (n-octanol/water): N.A. - This product is a mixture
Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature
Decomposition temperature: N.A.
Viscosity: 150.00 cPs
Explosive properties: N.A. - No components with explosive properties
Oxidizing properties: N.A. - No component with oxidizing properties
Solid/gas flammability: N.A.

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

n-butyl acetate	a) acute toxicity	LC50 Inhalation Rat = 21,1 mg/l 4h
		LD50 Oral Rat > 6400 mg/kg
		LD50 Skin Rabbit > 5000 mg/kg
		LD50 Skin Rabbit > 17600 mg/kg
		LC50 Inhalation Rat = 390 ppm 4h
		LD50 Oral Rat = 10768 mg/kg
	g) reproductive toxicity	NOAEC = 2000 ppm
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rabbit > 5000 mg/kg
		LC50 Inhalation Dust Rat > 23,8 mg/l
		LD50 Skin Rabbit > 5 g/kg
		LD50 Oral Rat = 8532 mg/kg
	e) germ cell mutagenicity	NOAEL Inhalation Rat = 1000 ppm
	g) reproductive toxicity	NOAEL Inhalation Rat = 500 ppm

A mixture of: α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -

a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
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hydroxypoly
(oxyethylene); α-3-(3-
(2H-benzotriazol-2-yl)-5-
tert-butyl-4-
hydroxyphenyl)propionyl-
ω-3-(3-(2H-benzotriazol-
2-yl)-5-tert-butyl-4-
hydroxyphenyl)
propionyloxypoly
(oxyethylene)

LC50 Inhalation Rat > 5,8 mg/l 4h

LD50 Skin Rat > 2000 mg/kg

Reaction mass of
Bis(1,2,2,6,6-
pentamethyl-4-piperidyl)
sebacate and Methyl
1,2,2,6,6-pentamethyl-4-
piperidyl sebacate

a) acute toxicity

LD50 Oral Rat = 3230 mg/kg

2-hydroxyethyl
methacrylate

a) acute toxicity

LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rabbit > 3000 mg/kg

LD50 Skin Rabbit > 3 g/kg

LD50 Oral Rat = 5050 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- k) Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish = 18 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 44 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 675 mg/L 72 a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 100 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 17 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 674,7 mg/L 72h IUCLID

2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish = mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 500 mg/L 48 b) Aquatic chronic toxicity : NOEC Fish = 47,5 mg/L - 14 d b) Aquatic chronic toxicity : NOEC Daphnia = 100 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 72 a) Aquatic acute toxicity : NOEC Algae = 1000 mg/L 96 a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 161 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 500 mg/L 48h IUCLID
A mixture of: α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene); α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	EINECS: 400-830-7 - INDEX: 607-176-00-3	a) Aquatic acute toxicity : LC50 Fish = 2,8 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 4,0 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72 a) Aquatic acute toxicity : EC50 Daphnia = 20 mg/L 24
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 1065336-91-5 - EINECS: 915-687-0	a) Aquatic acute toxicity : EC50 Algae = 0,22 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 0,97 mg/L 96 a) Aquatic acute toxicity : LC50 Fish = 7,9 mg/L 96 a) Aquatic acute toxicity : LC50 Fish = 0,9 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 6,3 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish = 227 mg/L 96
2-hydroxyethyl methacrylate	CAS: 868-77-9 - EINECS: 212-782-2	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 213 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 227 mg/L 96h IUCLID

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to an authorized waste disposal service.
Contaminated packaging:
Empty remaining content.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT or PAINT RELATED MATERIAL

IATA-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

IMDG-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

IMDG-EMS: F-E, S-E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

VOC (2004/42/EC) : 430 (A+B) g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Products belongs to category P5c	5000	50000

German Water Hazard Class

N.A.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30

SVHC Substances:

No Data Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/3	On basis of test data
3.8/3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION