

Safety Data Sheet

MAPEFLOOR FINISH 58 W / A

Safety Data Sheet dated: 27/09/2022 - version 4



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEFLOOR FINISH 58 W / A

Trade code: 906QC9990

UFI: 7VK5-V07D-V00W-5D1V

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

Recommended use: Epoxy paint

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)02376731 (office hours) - Fax: +39-02-37673.214 - www.mapei.it

Responsible: sicurezza@mapei.it

1.4. Emergency telephone number

Centro antiveneni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveneni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819

Centro antiveneni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveneni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveneni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveneni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveneni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveneni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveneni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveneni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Skin Sens. 1A May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/clothing and eye/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

Special Provisions:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

EUH208 Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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)

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

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEFLOOR FINISH 58 W /A

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

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 2.5 - < 5$ %	dipropylenglycol methyl ether	CAS:34590-94-8 EC:252-104-2	[1,3,OEL]	01-2119450011-60-xxxx
$\geq 0.49 - < 1$ %	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)	CAS:104810-48-2 EC:400-830-7 Index:607-176-00-3	Aquatic Chronic 2, H411; Skin Sens. 1A, H317	01-0000015075-76-XXXX
$\geq 0.25 - < 0.49$ %	triethylamine	CAS:121-44-8 EC:204-469-4 Index:612-004-00-5	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1A, H314 STOT SE 3, H335 Eye Dam. 1, H318 Specific Concentration Limits: 1% \leq C < 100%: STOT SE 3 H335	01-2119475467-26-XXXX
$\geq 0.016 - < 0.025$ %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Specific Concentration Limits: C $\geq 0.05\%$: Skin Sens. 1 H317	
$\geq 0.0015 - < 0.005$ %	formaldehyde	CAS:50-00-0 EC:200-001-8 Index:605-001-00-5	Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Specific Concentration Limits: 0.2% \leq C < 100%: Skin Sens. 1	01-2119488953-20-XXXX

H317
5% ≤ C < 25%: Skin Irrit. 2 H315
5% ≤ C < 25%: Eye Irrit. 2 H319
5% ≤ C < 100%: STOT SE 3 H335
25% ≤ C < 100%: Skin Corr. 1B
H314

<0.0015 % reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS:55965-84-9 EC:611-341-5 Index:613-167-00-5 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Acute Tox. 2, H310 Acute Tox. 2, H330 Eye Dam. 1, H318, M-Chronic:100, M-Acute:100

Specific Concentration Limits:
C ≥ 0.6%: Skin Corr. 1C H314
0.06% ≤ C < 0.6%: Skin Irrit. 2 H315
C ≥ 0.6%: Eye Dam. 1 H318
0.06% ≤ C < 0.6%: Eye Irrit. 2 H319
C ≥ 0.0015%: Skin Sens. 1A H317

<0.0015 % 2-methyl-2H-isothiazol-3-one CAS:2682-20-4 EC:220-239-6 Index:613-326-00-9 Acute Tox. 3, H311 Acute Tox. 3, H301 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1A, H317, M-Chronic:1, M-Acute:10, EUH071

Specific Concentration Limits:
C ≥ 0.0015%: Skin Sens. 1A H317

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

Not available

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:

Water.

Carbon dioxide (CO₂).

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 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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Ceiling	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour	Notes
dipropylenglycol methyl ether CAS: 34590-94-8	SUVA			300	50	300	50		
	NDS			240					
	National			303	50	600	100		
	National			300	50	450	75		Short-term average va
	National			310	50				hud
	National			300	50				H
	NDSch			480					
	EU			308	50				Skin
	ACGIH				100		150		Skin - Eye
	DFG	GERMANY	C			310	50		
	ACGIH				100		150		Skin - pote contributio the cutane impairmen respiratory
	National	SWEDEN		300	50				

National	FRANCE		308	50		
National	SPAIN		308	50		
National	GREECE		600	100	900	150
National	DENMARK		309	50		
National	FINLAND		310	50		
National	GERMANY		310	50		
National	PORTUGAL		308	50		150
National	NORWAY		300	50	375	75
National	BELGIUM		308	50		
NDS	POLAND		240			
NDSch	POLAND				480	
CHE	SWITZERLAND				300	50
NDS	NETHERLANDS		300			
National	CZECH REPUBLIC		270			
National	HUNGARY		308			
Malaysia a OEL	MALAYSIA		606	100		
National	ESTONIA		308	50		
National	LATVIA		308	50		
National	CZECH REPUBLIC	C			550	
National	SLOVAKIA		308	50		
National	SLOVENIA		308	50		
National	UNITED KINGDOM		308	50	924	150
National	BULGARIA		308.0	50		
National	ROMANIA		308	50		
TUR	TURKEY		308	50		
National	LITHUANIA		308	50	450	75
National	CROATIA		308	50		
EU			308	50		
						Indicative
triethylamine CAS: 121-44-8	DFG	GERMANY	C		8.4	2
	ACGIH			0.5		1
						A4 - Not C Carcinogen significant exposure b route;visua respiratory
National	SWEDEN		4.2	1		
National	FRANCE		4.2	1	12.6	3
National	SPAIN		8.4	2	12.6	3
National	GREECE		40	10	60	15
National	DENMARK		4.1	1		
National	FINLAND				4.2	1
National	GERMANY		4.2	1		
National	PORTUGAL		8.4	2	12.6	3
National	NORWAY		8	2	16	4
National	BELGIUM		4.2	1	12.6	3
NDS	POLAND		3			
NDSch	POLAND				9	

	CHE	SWITZERLAND		8.4	2		
	NDS	NETHERLANDS	4.2	12.6			
	National	CZECH REPUBLIC	8				
	National	HUNGARY	8.4	12.6			
	Malaysia OEL	MALAYSIA	4.1	1			Skin notation
	National	ESTONIA	8.4	2	12.6	3	
	National	LATVIA	8.4	2	12.6	3	
	National	CZECH REPUBLIC	C		12		
	National	SLOVAKIA	C		12.6		
	National	SLOVAKIA	8.4	2			
	National	SLOVENIA	8.4	2	12.6	3	
	National	UNITED KINGDOM	8	2	17	4	
	National	BULGARIA	8.4	2	12.6	3	
	National	ROMANIA	8.4	2	12.6	3	
	TUR	TURKEY	8.4	2	12.6	3	
	National	LITHUANIA	8.4	2	12.6	3	
	National	CROATIA	8.4	2	12.6	3	
	EU		8.4	2	12.6	3	Indicative
formaldehyde CAS: 50-00-0	ACGIH		C			0.3	Possibility through the DSEN, RSE
	DFG	GERMANY	C		0.74	0.6	
	ACGIH			0.1		0.3	A1 - Confirmed Carcinogen respiratory respiratory sensitizer;
	National	SWEDEN	0.37	0.3			
	National	FRANCE		0.5		1	
	National	SPAIN	0.37	0.3	0.74	0.6	
	National	GREECE	2.5	2	2.5	2	
	National	DENMARK	C		0.4	0.3	
	National	FINLAND	0.37	0.3			
	National	FINLAND	C		1.2	1	
	National	GERMANY	0.37	0.3			
	National	NORWAY	0.6	0.5			
	National	NORWAY	C		1.2	1	
	NDS	POLAND	0.37				
	NDSch	POLAND			0.74		
	CHE	SWITZERLAND			0.74	0.6	
	NDS	NETHERLANDS	0.15		0.5		
	National	CZECH REPUBLIC	0.5				
	National	HUNGARY	0.6		0.6		
	Malaysia OEL	MALAYSIA	C		0.37	0.3	
	National	PORTUGAL	C			0.3	

National ESTONIA			0.6	0.5	1.2	1
National LATVIA			0.5			
National CZECH REPUBLIC	C				1	
National SLOVAKIA	C				0.74	
National SLOVAKIA			0.37	0.3		
National SLOVENIA			0.62	0.5	0.62	0.5
National UNITED KINGDOM			2.5	2	2.5	2
National BULGARIA			1.0		2.0	
National ROMANIA			1.2	1	3	2
National LITHUANIA			0.6	0.5		
National LITHUANIA	C				1.2	1
National CROATIA			2.5	2	2.5	2
EU			0.37	0.3		
2-methyl-2H-isothiazol-3-one CAS: 2682-20-4	DFG	GERMANY			0.4	
	CHE	SWITZERLAND			0.4	

Binding

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
dipropylene glycol methyl ether CAS: 34590-94-8	19 mg/l	Fresh Water		
	1.9 mg/l	Marine water		
	70.2 mg/kg	Freshwater sediments		
	7.02 mg/kg	Marine water sediments		
	4168 mg/l	Microorganisms in sewage treatments		
	190 mg/l	Intermittent release		
	2.74 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) CAS: 104810-48-2	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
formaldehyde CAS: 50-00-0	0.47 mg/l	Fresh Water
	0.47 mg/l	Marine water
	4.7 mg/l	Intermittent release
	0.19 mg/l	Microorganisms in sewage treatments
	2.44 mg/kg	Freshwater sediments
	2.44 mg/kg	Marine water sediments
	0.21 mg/kg	Soil

Derived No Effect Level (DNEL) values

	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
dipropylenglycol methyl ether CAS: 34590-94-8	65 mg/kg		15 mg/kg	Human Dermal		Long Term, systemic effects
	310 mg/m3		37.2 mg/m3	Human Inhalation		Long Term, systemic effects
			1.67 mg/kg	Human Oral		Long Term, systemic 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) propionyl- ω -poly (oxyethylene) CAS: 104810-48-2	0.35 mg/m3		0.085 mg/m3	Human Inhalation		Long Term, systemic effects
	0.5 mg/kg		0.25 mg/kg	Human Dermal		Long Term, systemic effects
			0.025 mg/kg	Human Oral		Long Term, systemic effects
formaldehyde CAS: 50-00-0	1 mg/m3			Human Inhalation		Short Term, local effects
	240 mg/kg		102 mg/kg	Human Dermal		Long Term, systemic effects
	9 mg/m3		3.2 mg/m3	Human Inhalation		Long Term, systemic effects
	0.037 mg/cm2		0.012 mg/cm2	Human Dermal		Long Term, local effects

0.5 mg/m ³	0.1 mg/m ³	Human Inhalation	Long Term, local effects
	4.1 mg/kg	Human Oral	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 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 ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: liquid

Color: white

Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available

Viscosity: 120.00 cPs

Kinematic viscosity: Not available

Solubility in water: dispersible

Solubility in oil: partly soluble

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available

Relative density: 1.05 g/cm³

Vapour density: Not available

Particle characteristics:

Particle size: Not available

9.2. Other information

Miscibility: Not available

Conductivity: Not available

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

one; 1,2-benzisothiazolin-3-one

formaldehyde a) acute toxicity LD50 Oral Rat = 700 mg/kg
LC50 Inhalation Rat = 0.578 mg/l
LD50 Skin Rabbit = 270 mg/kg
LD50 Skin Rabbit = 270 mg/kg
LC50 Inhalation Rat = 0.578 mg/l 4h
LD50 Oral Rat = 100 mg/kg

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) a) acute toxicity LC50 Inhalation Rat = 2.36 mg/l 4h
LD50 Skin Rabbit = 660 mg/kg
LD50 Oral Rat = 53 mg/kg

2-methyl-2H-isothiazol-3-one a) acute toxicity LD50 Oral Rat > 183 mg/kg
LD50 Skin Rat = 242 mg/kg
LD50 Skin Rabbit = 200 mg/kg
LC50 Inhalation Rat = 0.11 mg/l 4h

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

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 Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
dipropylenglycol methyl ether	CAS: 34590-94-8 - EINECS: 252-104-2	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 10000 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1919 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)	CAS: 104810-48-2 - EINECS: 400-830-7 - INDEX: 607-176-00-3	a) Aquatic acute toxicity : LC50 Fish = 2.8 mg/L 96h
triethylamine	CAS: 121-44-8 - EINECS: 204-469-4 - INDEX: 612-004-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 4 mg/L 48h a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72h a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 200 mg/L 48h IUCLID

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6	a) Aquatic acute toxicity : LC50 Fish = 2.15 mg/L b) Aquatic chronic toxicity : NOEC Algae = 0.0403 mg/L 72h b) Aquatic chronic toxicity : EC50 Algae = 0.11 mg/L 72h b) Aquatic chronic toxicity : EC10 Algae = 0.04 mg/L 72h b) Aquatic chronic toxicity : EC50 Daphnia = 3.27 mg/L 48h NOEC Daphnia = 1.2 mg/L 21d
formaldehyde	CAS: 50-00-0 - EINECS: 200-001-8 - INDEX: 605-001-00-5	a) Aquatic acute toxicity : LC50 Fish = 41 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 42 mg/L 24 a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 22.6 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1510 µg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 41 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0.032 mL/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 100 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23.2 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 2 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 11.3 mg/L 48h EPA
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 - EINECS: 611-341-5 - INDEX: 613-167-00-5	a) Aquatic acute toxicity : LC50 Fish = 0.22 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 0.048 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 0.0012 mg/L 72 b) Aquatic chronic toxicity : NOEC Fish = 0.098 mg/L - 28 d b) Aquatic chronic toxicity : NOEC Daphnia = 0.004 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish = 4.77 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia = 0.93 mg/L 48h a) Aquatic acute toxicity : EC50 Algae = 0.072 mg/L 72h b) Aquatic chronic toxicity : NOEC Daphnia = 0.044 mg/L 21d
2-methyl-2H-isothiazol-3-one	CAS: 2682-20-4 - EINECS: 220-239-6 - INDEX: 613-326-00-9	a) Aquatic acute toxicity : LC50 Fish = 4.77 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia = 0.93 mg/L 48h a) Aquatic acute toxicity : EC50 Algae = 0.072 mg/L 72h b) Aquatic chronic toxicity : NOEC Daphnia = 0.044 mg/L 21d

12.2. Persistence and degradability

Component	Persistence/Degradability:
dipropylenglycol methyl ether	Readily biodegradable
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)	Non-readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

ADR-Hazard identification number: NA

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

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

VOC (2004/42/EC) : N.A. 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) n. 2020/878
 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)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2020/217 (ATP 14 CLP)
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)

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

None

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

Restrictions related to the substances contained: 28, 30, 40, 72, 75

SVHC Substances:

SVHC substances not present in a concentration $\geq 0.1\%$ (w/w)

National regulations

MAL-kode: COMP.A:1-5 (1993)-COMP. A+B=4-5 (1993)

German Water Hazard Class.

Class 1: slightly hazardous for water.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A

3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
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

3.4.2/1A Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

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
KAFH: KAFH
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
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION