

## Safety Data Sheet

### QUARZOLITE TONACHINO PLUS 1,2mm

Safety Data Sheet dated: 14/06/2022 - version 6



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

### 1.1. Product identifier

Mixture identification:

Trade name: QUARZOLITE TONACHINO PLUS 1,2mm

Trade code: 906H9990

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

Recommended use: Not available

Uses advised against: 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](http://www.mapei.it)

Responsible: [sicurezza@mapei.it](mailto: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)

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P273 Avoid release to the environment.

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 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH208 Contains 4,5-dichloro-2-octyl-2H-isothiazol-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.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### 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

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: QUARZOLITE TONACHINO PLUS 1,2mm

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

Concentration (%)	Name	Ident. Numb.	Classification	Registration Number
≥0.1 - <0.25 %	Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS:68920-66-1 EC:500-236-9	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 3, H412, M-Acute:1	
≥0.025 - <0.05 %	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 ≥ 0,05%: Skin Sens. 1 H317
≥0.025 - <0.05 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
≥0.005 - <0.01 %	terbutryn	CAS:886-50-0 EC:212-950-5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Skin Sens. 1B, H317, M-Chronic:100, M-Acute:100	Specific Concentration Limits: C ≥ 3%: Skin Sens. 1B H317
<0.0015 %	4,5-dichloro-2-octyl-2H-isothiazol-3-one	CAS:64359-81-5 EC:264-843-8 Index:613-335-00-8	Acute Tox. 2, H330 Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100	Specific Concentration Limits: 0,025% ≤ C < 5%: Skin Irrit. 2 H315 0,025% ≤ C < 3%: Eye Irrit. 2 H319 C ≥ 0,0015%: Skin Sens. 1A H317  Acute Toxicity Estimate: ATE - Oral: 567mg/kg bw
<0.0015 %	2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071	Specific Concentration Limits: C ≥ 0,0015%: Skin Sens. 1A H317  Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw

<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 % 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	01-2119488953-20-XXXX
		Specific Concentration Limits: 0,2% ≤ C < 100%: Skin Sens. 1 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	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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

Treatment:

Not available

(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

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## 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

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### List of components with OEL value

	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
free crystalline silica (Ø <10 µ) CAS: 14808-60-7	National	SWEDEN		0,100					SWEDEN, respirable aerosol
	National	NORWAY		0,100					K: Chemicals to be treated as carcinogenic.
	NDS	POLAND		2,000					frakcja wdychalna
	NDS	POLAND		0,300					frakcja respirabilna
	National	DENMARK		0,3		0,600			DENMARK, inhalable aerosol inhalable aerosol
	National	DENMARK		0,100		0,200			DENMARK, respirable aerosol respirable aerosol
	ACGIH			0,025					(R), A2 - Pulm fibrosis, lung cancer
	EU			0,025					A2 (R) - Pulm fibrosis, lung cancer
	National	AUSTRIA		0,150					A*
	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	National	SWEDEN		0,1					
	National	FRANCE		0,1					
	National	SPAIN		0,05					
	National	DENMARK		0,3					
	National	FINLAND		0,05					

2-octyl-2H-isothiazol-3-one CAS: 26530-20-1	National	PORTUGAL		0,025					
	National	NORWAY		0,3		0,9			
	National	BELGIUM		0,1					
	NDS	POLAND		0,1					
	NDS	NETHERLANDS		0,075					
	National	CZECH REPUBLIC		0,1					
	National	HUNGARY		0,15					
	Malaysi a OEL	MALAYSIA		0,1					0.1 mg/m3 TWA (respirable dust)
	National	ESTONIA		0,1					
	National	SLOVAKIA		0,1		0,5			
	National	SLOVENIA		0,1					
	National	BULGARIA		0,07					
	National	ROMANIA		0,1					
	National	LITHUANIA		0,1					
	National	CROATIA		0,1					
	National	ITALY		0,100					
	DFG	GERMANY	C			54	10		
	National	GERMANY		0,05					
	CHE	SWITZERLAND				0,1			
	National	SLOVENIA		0,05		0,05			
formaldehyde CAS: 50-00-0	ACGIH		C				0,3		DSEN, RSEN, A2 - URT and eye irr
	DFG	GERMANY	C			0,74	0,6		
	ACGIH				0,1		0,3		A1 - Confirmed Human Carcinogen;eye and upper respiratory tract irritation;upper respiratory tract cancer;dermal sensitizer; 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			
	Malaysi a 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		Binding

#### Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
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)

	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
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/m3		0,1 mg/m3	Human Inhalation		Long Term, local effects
			4,1 mg/kg	Human Oral		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 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

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: paste

Color: Not available

Odour: 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: Not available

Kinematic viscosity: Not available

Solubility in water: Not available

Solubility in oil: Not available

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

Vapour pressure: Not available

Relative density: Not available

Vapour density: Not available

#### Particle characteristics:

Particle size: Not available

### 9.2. Other information

Miscibility: Not available

Conductivity: Not available

No other relevant information

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## 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

None in particular.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

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

#### Toxicological information of the mixture:

- |                                  |  |
|----------------------------------|--|
| a) acute toxicity                | Not classified   |
|                                  | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation     | Not classified   |
|                                  | Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation | Not classified   |

	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	a) acute toxicity	LD50 Oral Rat = 670, mg/kg
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
terbutryn	a) acute toxicity	LD50 Skin Rabbit > 10200 mg/kg LC50 Inhalation Rat > 8 g/m <sup>3</sup> 4h LD50 Oral Rat = 2045 mg/kg LD50 Skin Rabbit > 10200 mg/kg
4,5-dichloro-2-octyl-2H-isothiazol-3-one	a) acute toxicity	ATE - Oral : 567 mg/kg bw  LC50 Inhalation Dust Rat = 0,16 mg/l LD50 Oral Rat = 567, mg/kg
2-octyl-2H-isothiazol-3-one	a) acute toxicity	ATE - Oral : 125 mg/kg bw  ATE - Dermal : 311 mg/kg bw LD50 Oral Rat = 318 mg/kg LD50 Skin Rabbit = 311 mg/kg LC50 Inhalation Dust Rat = 0,58 mg/l 4h
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
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



**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:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**List of Eco-Toxicological properties of the product**

The product is classified: Aquatic Chronic 3(H412)

**List of components with eco-toxicological properties**

Component	Ident. Numb.	Ecotox Infos
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
terbutryn	CAS: 886-50-0 - EINECS: 212-950-5	a) Aquatic acute toxicity : EC50 Daphnia = 6,4 mg/L 48  a) Aquatic acute toxicity : EC50 Algae = 0,0067 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 1,9 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 0,05 mg/L - 21d b) Aquatic chronic toxicity : NOEC Fish = 0,073 mg/L - 28d
4,5-dichloro-2-octyl-2H-isothiazol-3-one	CAS: 64359-81-5 - EINECS: 264-843-8 - INDEX: 613-335-00-8	a) Aquatic acute toxicity : EC50 Daphnia = mg/L 48  a) Aquatic acute toxicity : EC50 Algae = mg/L 72 a) Aquatic acute toxicity : LC50 Fish = mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = mg/L b) Aquatic chronic toxicity : NOEC Fish = mg/L
2-octyl-2H-isothiazol-3-one	CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 0,42 mg/L 48  a) Aquatic acute toxicity : EC50 Algae = 0,084 mg/L 72 a) Aquatic acute toxicity : LC50 Fish = 0,036 mg/L 96 a) Aquatic acute toxicity : LC50 Fish = 0,18 mg/L 96 b) Aquatic chronic toxicity : NOEC Daphnia = 0,002 mg/L - 21 d b) Aquatic chronic toxicity : NOEC Fish = 0,022 mg/L - 28 d b) Aquatic chronic toxicity : NOEC Algae = 0,004 mg/L 72
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 : EC50 Daphnia = 0,12 mg/L 48  a) Aquatic acute toxicity : LC50 Fish = 0,22 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 0,048 mg/L 72

formaldehyde

CAS: 50-00-0 -  
EINECS: 200-  
001-8 - INDEX:  
605-001-00-5

- 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 = 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

## 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 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

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# 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.

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# 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 ) :

Not Applicable

Air ( IATA ) :

Not Applicable

Sea ( IMDG ) :

Not Applicable

**14.7. Maritime transport in bulk according to IMO instruments**

Not Applicable

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**SECTION 15: Regulatory information**

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

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, 72, 75

**SVHC Substances:**

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

**German Water Hazard Class (WGK)**

Class 1: slightly hazardous for water.

**15.2. Chemical safety assessment**

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

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**SECTION 16: Other information**

Code	Description
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H301	Toxic 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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
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
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
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
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**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**

4.1/C3      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.

**\* Sheet model entirely changed in compliance to regulatory update.**