

## Safety Data Sheet

### SILANCOLOR CLEANER PLUS

Safety Data Sheet dated: 29/07/2022 - version 3



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

### 1.1. Product identifier

Mixture identification:

Trade name: SILANCOLOR CLEANER PLUS

Trade code: 9010821

UFI: KDS1-D0QK-600Y-A8VU

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

Recommended use: Primer

Uses advised against: Not available

### 1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road  
Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsible: sicurezza@mapei.it

### 1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

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

Eye Irrit. 2 Causes serious eye irritation.  
Skin Sens. 1A May cause an allergic skin reaction.  
Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

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:

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P261 Avoid breathing mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/clothing and eye/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.

#### Special Provisions:

EUH208 Contains tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione. 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.

**Contains:**

2-octyl-2H-isothiazol-3-one

**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: SILANCOLOR CLEANER PLUS

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

Concentration (%) w/w)	Name	Ident. Numb.	Classification	Registration Number
$\geq 2.5 - < 5\%$	tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	CAS:5395-50-6 EC:226-408-0	Skin Sens. 1, H317	
$\geq 1 - < 2.5\%$	2,2' -oxybisethanol; diethylene glycol	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6	Acute Tox. 4, H302	01-2119457857-21-XXXX
$\geq 1 - < 2.5\%$	sufonic acids, C13-17-sec-alkane, sodium salts	CAS:85711-69-9 EC:288-330-3	Skin Irrit. 2, H315; Eye Dam. 1, H318	
$\geq 0.1 - < 0.25\%$	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 $\geq 0.0015\%$ : Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw	
$\geq 0.025 - < 0.05\%$	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 $\geq 0.6\%$ : Skin Corr. 1C H314 0.06% $\leq$ C < 0.6%: Skin Irrit. 2 H315 C $\geq 0.6\%$ : Eye Dam. 1 H318 0.06% $\leq$ C < 0.6%: Eye Irrit. 2 H319 C $\geq 0.0015\%$ : Skin Sens. 1A H317	
$\geq 0.005 - < 0.01\%$	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% $\leq$ 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

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## **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.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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**

Eye irritation

Eye damages

### **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)

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

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## **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.

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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

#### List of components with OEL value

	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour Note
2,2' -oxybisethanol; diethylene glycol CAS: 111-46-6	SUVA			44	10	176	40	
	NDS			10				
	National	SWEDEN		45	10	90	20	SWEDEN, Short-term value, 15 minutes average value
	National	NORWAY		11	2.5	22	5	
	DFG	GERMANY	C			176	40	
	National	SWEDEN		45	10			
	National	DENMARK		11	2.5			
	National	GERMANY		44	10			
	NDS	POLAND		10				
	CHE	SWITZERLAND				176	40	
	National	ESTONIA		45	10	90	20	
	National	LATVIA		10				
	National	SLOVAKIA	C			90		
	National	SLOVAKIA		44	10			
	National	SLOVENIA		44	10	176	40	
	National	UNITED KINGDOM		101	23	303	69	
	National	BULGARIA		10				
	National	ROMANIA		500	115	800	184	
	National	LITHUANIA		45	10	90	20	
National	CROATIA		101	23				
2-octyl-2H-isothiazol-3-one CAS: 26530-20-1	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

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
2,2' -oxybisethanol; diethylene glycol CAS: 111-46-6	10 mg/l	Fresh Water		
	1 mg/l	Marine water		
	20.9 mg/kg	Freshwater sediments		
	1.53 mg/kg	Soil		
	10 mg/l	Intermittent release		
	2.09 mg/kg	Marine water sediments		
	199.5 mg/l	Microorganisms in sewage treatments		

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)**

	<b>Worker Industrial</b>	<b>Worker Professional</b>	<b>Consumer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
2,2'-oxybisethanol; diethylene glycol CAS: 111-46-6	53 mg/kg		53 mg/kg	Human Dermal		Long Term, systemic effects
	60 mg/m3		12 mg/m3	Human Inhalation		Long Term, systemic effects
	60 mg/m3		12 mg/m3	Human Inhalation		Long Term, local 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/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:

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: transparent  
Odour: Characteristic  
Odour threshold: Not available  
Melting point / freezing point: Not available  
Initial boiling point and boiling range: 100 °C (212 °F)  
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: 8.00  
Viscosity: 20.00 cPs  
Kinematic viscosity: Not available  
Solubility in water: partly soluble  
Solubility in oil: no data available  
Partition coefficient (n-octanol/water): Not available  
Vapour pressure: Not available  
Relative density: 1.00 g/cm<sup>3</sup>  
Vapour density: Not available  
**Particle characteristics:**  
Particle size: Not available

## 9.2. Other information

Miscibility: Not available  
Conductivity: Not available  
Explosive properties: ==  
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	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
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:

tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LD50 Skin Rat > 2000 mg/kg
		LC50 Inhalation Rat > 2000 mg/kg 4h
2,2' -oxybisethanol; diethylene glycol	a) acute toxicity	LD50 Skin Rabbit > 2000 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
	LD50 Oral Rat = 100 mg/kg	

#### 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:

Toxic 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 2(H411)

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

Component	Ident. Numb.	Ecotox Infos
tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	CAS: 5395-50-6 - EINECS: 226-408-0	a) Aquatic acute toxicity : LC50 Fish = 158 mg/L 96



		a) Aquatic acute toxicity : EC50 Daphnia > 17.8 mg/L 48 48
2,2' -oxybisethanol; diethylene glycol	CAS: 111-46-6 - EINECS: 203- 872-2 - INDEX: 603-140-00-6	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 24
		a) Aquatic acute toxicity : EC50 Algae > 100 mg/L - 8 d
		b) Aquatic chronic toxicity : NOEC Fish > 100 mg/L - 7 d
		b) Aquatic chronic toxicity : NOEC Daphnia > 100 mg/L - 7 d
		e) Plant toxicity : EC50 = 11779 mg/kg
		b) Aquatic chronic toxicity : NOEC Algae = 2700 mg/L - 8 d
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 75200 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 84000 mg/L 48h IUCLID
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
		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
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

## 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

#### 14.1. UN number or ID number

3082

#### 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (isothiazolinones)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (isothiazolinones)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (isothiazolinones)

#### 14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

#### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

#### 14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-A, S-F

#### 14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: 9

ADR-Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

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

Air ( IATA ) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197 A215

Sea ( IMDG ) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-EMS: F-A, S-F

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

Not Applicable

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

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## 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):

<b>Seveso III category according to Annex 1, part 1</b>	<b>Lower-tier threshold (tonnes)</b>	<b>Upper-tier threshold (tonnes)</b>
Products belongs to category E2	200	500

### 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)

### National regulations

Produktregisteret Norge: 304056

MAL-kode: 00-5 (1996)

### 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.

## SECTION 16: Other information

Code	Description
EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
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
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category 2
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), 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
3.2/1	Skin Corr. 1	Skin corrosion, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
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/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
3.3/2	Calculation method
3.4.2/1A	Calculation method
4.1/C2	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.**