

## Safety Data Sheet

### DURSILITE PLUS

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



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

### 1.1. Product identifier

Mixture identification:

Trade name: DURSILITE PLUS

Trade code: 906DD0900

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

Recommended use: Water dispersion synthetic resin based 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: +39-02-376731

Fax: +39-02-37673.214

Responsable: sicurezza@mapei.it

### 1.4. Emergency telephone number

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

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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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 othilnone (ISO); 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH208 Contains 1,2-benzisothiazol-3(2H)-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 3-iodo-2-propynyl butylcarbamate (IPBC). May produce an allergic reaction.

EUH208 Contains pyrithione zinc. May produce an allergic reaction.

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

None

### 2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: DURSILITE PLUS

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

Quantity	Name	Ident. Numb.	Classification	Registration Number
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≥0.25 - <0.49 %	Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS:68920-66-1	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 3, H412, M:1	01-2119489407-26-xxxx
≥0.1 - <0.25 %	zinc pyrithione	CAS:13463-41-7 EC:236-671-3	Acute Tox. 3, H301; Acute Tox. 3, H331; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:100	
≥0.05 - <0.1 %	3-iodo-2-propynylbutylcarbamate (IPBC)	CAS:55406-53-6 EC:259-627-5	Acute Tox. 4, H302; Eye Dam. 1, H318; Acute Tox. 3, H331; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317, M-Acute:10	
≥0.025 - <0.05 %	2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 1, H410; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400, M-Acute:10, M:1	
≥0.005 - <0.01 %	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	
≥0.0015 - <0.005 %	n-butyl acrylate	CAS:141-32-2 EC:205-480-7 Index:607-062-00-3	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	01-2119453155-43-XXXX
≥0.0015 - <0.005 %	vinyl acetate	CAS:108-05-4 EC:203-545-4 Index:607-023-00-0	Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412	01-2119471301-50-0005
<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	

## 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

N.A.

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

Treatment: N.A.

(see paragraph 4.1)

## 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.

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

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
3-iodo-2-propynylbutylcarbamate (IPBC)	DFG	GERMANY	C			0,116	0,01		
	National	GERMANY		0,058	0,005				
	CHE	SWITZERLAND				0,24	0,02		
2-octyl-2H-isothiazol-3-one	DFG	GERMANY	C			54	10		
	National	GERMANY		0,05					
	CHE	SWITZERLAND				0,1			
	National	SLOVENIA		0,05		0,05			
n-butyl acrylate	DFG	GERMANY	C			0,1			
	National	SWEDEN		50	10	80	15		SWEDEN, Short-term value, 15 minutes

						average value
	National NORWAY	11	2			NORWAY, A
	EU NNN	11	2	53	10	
	National NORWAY	11	2	22	4	
	ACGIH NNN		2			DSEN, A4 - Irr
	DFG GERMANY C			22	4	
	ACGIH		2			A4 - Not Classifiable as a Human Carcinogen; irritation; dermal sensitizer
	National SWEDEN	11	2			
	National FRANCE	11	2	53	10	
	National SPAIN	11	2	53	10	
	National GREECE	55	10			
	National DENMARK	11	2			
	National FINLAND	11	2	53	10	
	National GERMANY	11	2			
	National PORTUGAL	11	2	53	10	
	National NORWAY	11	2	16,5	4	
	National BELGIUM	11	2	53	10	
	NDS POLAND	11				
	NDSch POLAND			30		
	CHE SWITZERLAND			22	4	
	NDS NETHERLANDS	11		53		
	National CZECHIA	10				
	National HUNGARY	11		53		
	Malaysian OEL	10,48	2			
	National ESTONIA	11	2	53	10	
	National LATVIA	11	2	53	10	
	National CZECHIA C			20		
	National SLOVAKIA C			53		
	National SLOVAKIA	11	2			
	National SLOVENIA	11	2	55	10	
	National UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5	1	26	5	
	National BULGARIA	11	2	53	10	
	National ROMANIA	11	2	53	10	
	TUR TURKEY	11	2	53	10	
	National LITHUANIA	11	2	53	10	
	National CROATIA	11	2	53	10	
	EU	11	2	53	10	Indicative
vinyl acetate	ACGIH NNN		10		15	A3 - URT, eye and skin irr, CNS impair

ACGIH			10		15	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans;CNS impairment; eye, skin and upper respiratory tract irritation
National SWEDEN		18	5			
National FRANCE		17,6	5	35,2	10	
National SPAIN		17,6	5	35,2	10	
National GREECE		17,6	5	35,2	10	
National DENMARK		18	5			
National FINLAND		18	5	35	10	
National GERMANY		18	5			
National PORTUGAL		17,6	5	35,2	10	
National NORWAY		17,6	5	35,2	10	
National BELGIUM		17,6	5	35,2	10	
NDS POLAND		10				
NDSch POLAND				30		
CHE SWITZERLAND				35	10	
NDS NETHERLANDS		18		36		
National CZECHIA		18				
National HUNGARY		17,6		35,2		
Malaysia MALAYSIA a OEL		35	10			
National ESTONIA		18	5	35,2	10	
National LATVIA		17,6	5	35,2	10	
National CZECHIA C				36		
National SLOVAKIA C				35,2		
National SLOVAKIA		36	10			
National SLOVENIA		17,6	5	35,2	10	
National UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		17,6	5	35,2	10	
National BULGARIA		17,6	5	35,2	10	
National ROMANIA		17,6	5	35,2	10	
TUR TURKEY		17,6	5	35,2	10	
National LITHUANIA		17,6	5	35,2	10	
National CROATIA		17,6	5	35,2	10	
EU		17,6	5	35,2	10	Indicative

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

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
n-butyl acrylate	141-32-2	0,00272	Fresh Water mg/l		
		0,00027	Marine water mg/l		

		0,0338 mg/kg	Freshwater sediments
		1 mg/kg	Soil
		0,00338 mg/kg	Marine water sediments
		0,011 mg/l	Intermittent release
		3,5 mg/l	Microorganisms in sewage treatments
vinyl acetate	108-05-4	0,016 mg/l	Fresh Water
		0,0016 mg/l	Marine water
		0,126 mg/l	Intermittent release
		0,067 mg/kg	Freshwater sediments
		0,0067 mg/kg	Marine water sediments
		0,0035 mg/kg	Soil

#### Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
n-butyl acrylate	141-32-2	11 mg/m3			Human Inhalation	Long Term, local effects	
vinyl acetate	108-05-4		0,42 mg/kg		Human Dermal	Long Term, systemic effects	
			35,2 mg/m3		Human Inhalation	Short Term, systemic effects	
			35,2 mg/m3		Human Inhalation	Short Term, local effects	
			17,6 mg/m3		Human Inhalation	Long Term, systemic effects	
			17,6 mg/m3		Human Inhalation	Long Term, local effects	

#### 8.2. Exposure controls

Eye protection:

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

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Suitable materials for safety gloves; EN 374:

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

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

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

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

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

Respiratory protection:

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

Hygienic and Technical measures

N.A.

Appropriate engineering controls:  
N.A.

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## SECTION 9: Physical and chemical properties

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

Physical state: Liquid  
Appearance and colour: Liquid various  
Odour: characteristic  
Odour threshold: N.A.  
pH: N.A.  
Melting point / freezing point: N.A.  
Initial boiling point and boiling range: 100 °C (212 °F)  
Flash point: N.A.  
Evaporation rate: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Vapour pressure: N.A.  
Relative density: N.A.  
Solubility in water: Dispersible  
Partition coefficient (n-octanol/water): N.A. - This product is a mixture  
Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Explosive properties: == - No components with explosive properties  
Oxidizing properties: N.A. - No component with oxidizing properties  
Solid/gas flammability: N.A.

### 9.2. Other information

No additional information

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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 toxicological effects

#### Toxicological information of the mixture:

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

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

zinc pyriithione	a) acute toxicity	LD50 Skin Rabbit = 100 mg/kg LD50 Oral Rat = 177 mg/kg LC50 Inhalation Rat 0,05 mg/l 4h
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3-iodo-2-propynylbutylcarbamate (IPBC)	a) acute toxicity	LD50 Skin Rat > 2000 mg/kg  LD50 Oral Rat = 1470 mg/kg LC50 Inhalation Rat = 0,67 mg/l 4h LC50 Inhalation Rat = 0,63 mg/l 4h
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		LC50 Inhalation Rat = 0,99 mg/l 4h
2-octyl-2H-isothiazol-3-one	a) acute toxicity	LD50 Oral Rat = 318 mg/kg
		LD50 Skin Rabbit = 311 mg/kg
		LC50 Inhalation Rat = 0,58 mg/l 4h
		LD50 Skin Rabbit = 690 mg/kg
		LD50 Oral Rat = 550 mg/kg
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	a) acute toxicity	LD50 Oral Rat = 1020 mg/kg
n-butyl acrylate	a) acute toxicity	LC50 Inhalation Rat = 10,3 mg/l 4h
		LD50 Skin Rabbit = 3500 mg/kg
		LD50 Oral Rat = 3500 mg/kg
		LD50 Skin Rabbit = 3024 mg/kg
		LC50 Inhalation Rat = 10,3 mg/l 4h
		LD50 Oral Rat = 9050 mg/kg
vinyl acetate	a) acute toxicity	LC50 Inhalation Rat = 15,80000 mg/l 4h
		LD50 Skin Rabbit = 2335,00000 mg/kg
		LC50 Inhalation Rat = 3680,00000 ppm 4h
		LD50 Oral Rat = 2900,00000 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	LD50 Oral Rat = 457 mg/kg
		LC50 Inhalation Rat = 2,36 mg/l 4h
		LD50 Skin Rabbit = 660 mg/kg
		LD50 Oral Rat = 53 mg/kg

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

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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Eco-Toxicological Information:



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

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

<b>Component</b>	<b>Ident. Numb.</b>	<b>Ecotox Infos</b>
3-iodo-2-propynylbutylcarbamate (IPBC)	CAS: 55406-53-6 - EINECS: 259-627-5	a) Aquatic acute toxicity : LC50 Fish <i>Lepomis macrochirus</i> 0,14 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> 0,049 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> 0,05 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> 0,18 mg/L 96h EPA
2-octyl-2H-isothiazol-3-one	CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5	a) Aquatic acute toxicity : EC50 <i>Daphnia</i> = 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 <i>Daphnia</i> = 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
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 = 2,15000 mg/L  b) Aquatic chronic toxicity : NOEC Algae = 0,04030 mg/L 72h b) Aquatic chronic toxicity : EC50 Algae = 0,11000 mg/L 72h
n-butyl acrylate	CAS: 141-32-2 - EINECS: 205-480-7 - INDEX: 607-062-00-3	a) Aquatic acute toxicity : LC50 Fish = 5 mg/L 96  a) Aquatic acute toxicity : EC50 <i>Daphnia</i> = 5 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 5 mg/L 96 b) Aquatic chronic toxicity : NOEC <i>Daphnia</i> = 0,136 mg/L - 21 d c) Bacteria toxicity : EC50 Bacteria > 1000 mg/L a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 5,2 mg/L 96h IUCLID  a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> = 8,2 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae <i>Pseudokirchneriella subcapitata</i> = 5,5 mg/L 96h IUCLID
vinyl acetate	CAS: 108-05-4 - EINECS: 203-545-4 - INDEX: 607-023-00-0	a) Aquatic acute toxicity : EC50 <i>Daphnia</i> = 12,6 mg/L 48  a) Aquatic acute toxicity : EC50 Algae = 12,7 mg/L 72 b) Aquatic chronic toxicity : NOEC Fish = 0,16 mg/L - 34 d b) Aquatic chronic toxicity : NOEC <i>Daphnia</i> = 0,317 mg/L - 21 d a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> = 14 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish <i>Lepomis macrochirus</i> 15,04 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish <i>Poecilia reticulata</i> 26,1 mg/L 96h 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 : EC50 <i>Daphnia</i> = 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

#### **12.2. Persistence and degradability**

N.A.

#### **12.3. Bioaccumulative potential**

N.A.

#### **12.4. Mobility in soil**

N.A.

#### **12.5. Results of PBT and vPvB assessment**

No PBT/vPvB Ingredients are present

#### **12.6. Other adverse effects**

N.A.

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### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

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### **SECTION 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

#### **14.1. UN number**

N.A.

#### **14.2. UN proper shipping name**

N.A.

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

N.A.

#### **14.4. Packing group**

N.A.

#### **14.5. Environmental hazards**

N.A.

#### **14.6. Special precautions for user**

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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

N.A.

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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) : 25 g/l

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

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

Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EU) 2015/830  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Provisions related to directive EU 2012/18 (Seveso III):

N.A.

#### German Water Hazard Class

N.A.

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

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 28

#### SVHC Substances:

No Data Available

#### 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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, 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/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
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
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.6/2	Carc. 2	Carcinogenicity, Category 2
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/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

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

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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

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

This SDS cancels and replaces any preceding release.

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

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION