

Safety Data Sheet

ULTRACARE HD CLEANER

Safety Data Sheet dated: 19/04/2021 - version 1



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

1.1. Product identifier

Mixture identification:

Trade name: ULTRACARE HD CLEANER

Trade code: 9011508

Registration Number N/A

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

Recommended use: Cleaner

Uses advised against: N.A.

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)

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

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:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

Special Provisions:

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

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

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: ULTRACARE HD CLEANER

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

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥10 - <20 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2, H319	01-2119492630-38-XXXX
≥2.5 - <5 %	dipropylene glycol methyl ether	CAS:34590-94-8 EC:252-104-2	Substance with a Union workplace exposure limit.	01-2119450011-60-xxxx
≥1 - <2.5 %	DO NOT USE - 2-aminoethanol	CAS:141-43-5 EC:205-483-3 Index:603-030-00-8	Acute Tox. 4, H312; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Corr. 1B, H314; STOT SE 3, H335; Aquatic Chronic 3, H412	01-2119486455-28-XXXX
≥0.49 - <1 %		CAS:107-98-2 EC:203-539-1	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35-XXXX
≥0.49 - <1 %	sodium hydroxide; caustic soda	CAS:1310-73-2 EC:215-185-5 Index:011-002-00-6	Met. Corr. 1, H290; Skin Corr. 1A, H314	01-2119457892-27-XXXX
≥0.016 - <0.025 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 2, H411	
<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:

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

Skin Irritation

Erythema

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

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

Treatment:
(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.
Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour Note
benzyl alcohol	National	FINLAND		45	10			
	National	POLAND		240				
	DFG	GERMANY	C			44	10	
	National	GERMANY		22	5			
	NDS	POLAND		240				

	National	CZECH REPUBLIC		40				
	National	LATVIA		5				
	National	CZECH REPUBLIC	C			80		
	National	BULGARIA		5.0				
	National	LITHUANIA		5				
	National	SLOVENIA		22	5	44	10	
dipropylenglycol methyl ether	SUVA	None		300	50	300	50	
	NDS	None		240				
	National	None		303	50	600	100	
	National	None		300	50	450	75	Short-term value, 15 minutes average value
	National	None		310	50			hud
	National	None		300	50			H
	NDSch	None		480				
	EU	None		308	50			Skin
	ACGIH	None			100		150	Skin - Eye and URT irr, CNS impair
	DFG	GERMANY	C			310	50	
	ACGIH				100		150	Skin - potential significant contribution to overall exposure by the cutaneous route; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN		300	50			
	National	FRANCE		308	50			
	National	SPAIN		308	50			
	National	GREECE		600	100	900	150	
	National	DENMARK		309	50			
	National	FINLAND		310	50			
	National	GERMANY		310	50			
	National	PORTUGAL		308	50		150	
	National	NORWAY		300	50	375	75	
	National	BELGIUM		308	50			
	NDS	POLAND		240				
	NDSch	POLAND				480		
	CHE	SWITZERLAND				300	50	
	NDS	NETHERLANDS		300				
	National	CZECH REPUBLIC		270				
	National	HUNGARY		308				
	Malaysi a OEL	MALAYSIA		606	100			Skin notation
	National	ESTONIA		308	50			
	National	LATVIA		308	50			
	National	CZECH REPUBLIC	C			550		
	National	SLOVAKIA		308	50			
	National	SLOVENIA		308	50			
	National	UNITED KINGDOM		308	50	924	150	
	National	BULGARIA		308.0	50			

DO NOT USE - 2-aminoethanol	National ROMANIA		308	50				
	TUR TURKEY		308	50				
	National LITHUANIA		308	50	450	75		
	National CROATIA		308	50				
	EU		308	50			Indicative	Possibility of significant uptake through the skin
	National SLOVENIA		308	50	308	50		
	EU None		2.5	1	7.6	3		Skin
	ACGIH None			3		6		Eye and skin irr
	DFG GERMANY C				0.51	0.2		
	ACGIH			3		6		eye and skin irritation
	National SWEDEN		2.5	1				
	EU		2.5	1	7.6	3	Indicative	Possibility of significant uptake through the skin
	National FRANCE		2.5	1	7.6	3		
	National SPAIN		2.5	1	7.5	3		
	National GREECE		2.5	1	7.6	3		
	National DENMARK		2.5	1				
	National FINLAND		2.5	1	7.6	3		
	National GERMANY		0.5	0.2				
	National PORTUGAL		2.5	1	7.6	3		
	National NORWAY		2.5	1	5	2		
	National BELGIUM		2.5	1	7.6	3		
	NDS POLAND		2.5					
	NDSch POLAND				7.5			
	CHE SWITZERLAND				10	4		
	NDS NETHERLANDS		2.5		7.6			
	National CZECH REPUBLIC		2.5					
	National HUNGARY		2.5		7.6			
	Malaysi a OEL MALAYSIA		7.5	3				
	National ESTONIA		2.5	1	7.6	3		
	National LATVIA		0.5	0.2	7.6	3		
	National CZECH REPUBLIC C				7.5			
	National SLOVAKIA C				7.6			
National SLOVAKIA		2.5	1					
National SLOVENIA		2.5	1	7.5	3			
National UNITED KINGDOM		2.5	1	7.6	3			
National BULGARIA		2.5	1	7.6	3			
National ROMANIA		2.5	1	7.6	3			
TUR TURKEY		2.5	1	7.6	3			
National LITHUANIA		2.5	1	7.6	3			
National CROATIA		2.5	1	7.6	3			
National SLOVENIA		2.5	1	7.6	3			
SUVA None		375	100	568	150			
National SWEDEN		190	50	300	75		SWEDEN, Short-term value, 15 minutes average value	
National FINLAND		370	100	560	150		FINLAND, hud	
National NORWAY		180	50				NORWAY, H	
NDS None		180						

NDSch	None		360				
National	NORWAY		185	50	370	100	
EU	None		375	100	563	150	Skin
ACGIH	None			50		100	A4 - Eye and URT irr
DFG	GERMANY	C			740	200	
ACGIH				50		100	A4 - Not Classifiable as a Human Carcinogen; eye and upper respiratory tract irritation
National	SWEDEN		190	50			
National	FRANCE		188	50	375	100	
National	SPAIN		375	100	568	150	
National	GREECE		360	100	1080	300	
National	DENMARK		185	50			
National	FINLAND		370	100	560	150	
National	GERMANY		370	100			
National	PORTUGAL		375	100	568	150	
National	NORWAY		180	50	225	75	
National	BELGIUM		375	100	568	150	
NDS	POLAND		180				
NDSch	POLAND				360		
CHE	SWITZERLAND				720	200	
NDS	NETHERLANDS		375		563		
National	CZECH REPUBLIC		270				
National	HUNGARY		375		568		
Malaysi a OEL	MALAYSIA		369	100			
National	ESTONIA		375	100	568	150	
National	LATVIA		375	100	568	150	
National	CZECH REPUBLIC	C			550		
National	SLOVAKIA	C			568		
National	SLOVAKIA		375	100			
National	SLOVENIA		375	100	562.5	150	
National	UNITED KINGDOM		375	100	560	150	
National	BULGARIA		375.0	100	568.0	150	
National	ROMANIA		375	100	568	150	
TUR	TURKEY		375	100	568	150	
National	LITHUANIA		190	50	300	75	
National	CROATIA		375	100	568	150	
EU			375	100	568	150	Indicative Possibility of significant uptake through the skin
National	BELGIUM		184	50	369	100	
National	SLOVENIA		375	100	568	150	
sodium hydroxide; caustic soda	ACGIH	None	C		2		URT, eye, and skin irr
National	SWEDEN	C	1		2		SWEDEN, Ceiling limit value
National	FINLAND				2		FINLAND, takvärde
National	NORWAY		2				NORWAY, T
National	NORWAY		2		2		
National	POLAND		0.5		1		
ACGIH		C			2		

National SWEDEN		1	
National FRANCE		2	
National SPAIN			2
National GREECE		2	2
National DENMARK	C		2
National FINLAND	C		2
National NORWAY	C		2
NDS POLAND		0.5	
NDSch POLAND			1
CHE SWITZERLAND			2
National CZECH REPUBLIC		1	
National HUNGARY		2	2
Malaysi MALAYSIA a OEL	C		2
National PORTUGAL	C		2
National ESTONIA		1	2
National LATVIA		0.5	
National CZECH REPUBLIC	C		2
National SLOVAKIA		2	
National SLOVENIA		2	2
National UNITED KINGDOM			2
National BULGARIA		2.0	
National LITHUANIA	C		2
National CROATIA			2

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
benzyl alcohol	100-51-6	1 mg/l	Fresh Water		
		0.1 mg/l	Marine water		
		5.27 mg/kg	Freshwater sediments		
		0.527 mg/kg	Marine water sediments		
		39 mg/l	Microorganisms in sewage treatments		
		0.45 mg/kg	Soil		
dipropyleneglycol methyl ether	34590-94-8	2.3 mg/l	Intermittent release		
		19 mg/l	Fresh Water		
		1.9 mg/l	Marine water		
		70.2 mg/kg	Freshwater sediments		
		7.02 mg/kg	Marine water sediments		
		4168 mg/l	Microorganisms in sewage treatments		
107-98-2	107-98-2	190 mg/l	Intermittent release		
		2.74 mg/kg	Soil		
		10.000000 mg/l	Fresh Water		
		100.	Intermittent release		

000000 mg/l
 1.000000 Marine water mg/l
 100.000000 Microorganisms in sewage treatments mg/l
 52.300000 Freshwater sediments mg/kg
 5.200000 Marine water sediments mg/kg
 4.590000 Soil mg/kg

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark	
benzyl alcohol	100-51-6			20 mg/kg	Human Oral		Short Term, systemic effects	
				4 mg/kg	Human Oral		Long Term, systemic effects	
			110 mg/m3		27 mg/m3	Human Inhalation		Short Term, systemic effects
			22 mg/m3		5.4 mg/m3	Human Inhalation		Long Term, systemic effects
			40 mg/kg		20 mg/kg	Human Dermal		Short Term, systemic effects
			8 mg/kg		4 mg/kg	Human Dermal		Long Term, systemic effects
dipropyleneglycol methyl ether	34590-94-8			65 mg/kg	Human Dermal		Long Term, systemic effects	
				310 mg/m3	Human Inhalation		Long Term, systemic effects	
	107-98-2				1.67 mg/kg	Human Oral		Long Term, systemic effects
				369.000000 mg/m3	Human Inhalation		Long Term, systemic effects	
				553.500000 mg/m3	Human Inhalation		Short Term, systemic effects	
				553.500000 mg/m3	Human Inhalation		Short Term, local effects	
				183.000000 mg/kg	Human Dermal		Long Term, systemic effects	
				43.900000 mg/m3	Human Inhalation		Long Term, systemic effects	
				78.000000 mg/kg	Human Dermal		Long Term, systemic effects	
				33.000000 mg/m3	Human Oral		Long Term, systemic effects	

sodium hydroxide; caustic soda	1310-73-2	1	1	Human Inhalation	Long Term, local effects
		mg/m ³	mg/m ³		
		1	1	Human Inhalation	Short Term, local effects
		mg/m ³	mg/m ³		

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.

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid transparent

Odour: Characteristic

Odour threshold: N.A.

pH: 11.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 100 °C (212 °F)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.00 g/cm³

Solubility in water: yes

Solubility in oil: soluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: 15.00 mPA-s

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

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

Toxicological information on main components of the mixture:

benzyl alcohol	a) acute toxicity	LD50 Skin Rabbit = 2000 mg/kg LD50 Oral Rat = 1620 mg/kg LC50 Inhalation Rat = 11.00000 mg/l 4h LD50 Skin Rabbit = 2 g/kg LC50 Inhalation Rat = 8.8 mg/l 4h LD50 Oral Rat = 1230 mg/kg
	g) reproductive toxicity	NOAEL Rat = 1072 mg/m ³
dipropylenglycol methyl ether	a) acute toxicity	LD50 Oral Rat = 5660 mg/kg LD50 Skin Rabbit = 9500 mg/kg LD50 Skin Rabbit = 9500 mg/kg LD50 Oral Rat = 5.35 g/kg LD50 Oral Rat = 5.35 g/kg
DO NOT USE - 2-aminoethanol	a) acute toxicity	LD50 Oral Rat = 1089 mg/kg LD50 Skin Rabbit = 2504 mg/kg LC50 Inhalation Rat > 1.3 mg/l LD50 Skin Rabbit = 1000 mg/kg LD50 Oral Rat = 1720 mg/kg
	a) acute toxicity	LD50 Oral Rat = 5300 mg/kg LD50 Skin Rabbit = 13000 mg/kg LC50 Inhalation Rat = 28.8 mg/l 4h LD50 Skin Rabbit = 13 g/kg LC50 Inhalation Rat > 7559 ppm 6h LD50 Oral Rat = 5000 mg/kg
	h) STOT-single exposure	NOAEL Oral Rat = 919 mg/kg NOAEL Inhalation Rat = 3.7 mg/kg NOAEL Skin Rabbit > 1000 mg/kg
sodium hydroxide; caustic soda	a) acute toxicity	LD50 Skin Rabbit = 1350 mg/kg LD50 Skin Rabbit = 1350 mg/kg LD50 Oral Rat = 325 mg/kg LD50 Skin Rabbit = 1350 mg/kg
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	a) acute toxicity	LD50 Oral Rat = 1020 mg/kg
reaction mass of: 5-	a) acute toxicity	LC50 Inhalation Rat = 2.36000 mg/l 4h

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)

LD50 Skin Rabbit = 660.00000 mg/kg

LD50 Oral Rat = 53.00000 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
Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
benzyl alcohol	CAS: 100-51-6 - EINECS: 202-859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 230 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish = 770 mg/L 1
		a) Aquatic acute toxicity : EC50 Algae = 770 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish = 460 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = 66 mg/L
		b) Aquatic chronic toxicity : NOEC Daphnia = 51 mg/L - 21 d
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 460 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 10 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia water flea = 23 mg/L 48h
dipropylenglycol methyl ether	CAS: 34590-94-8 - EINECS: 252-104-2	a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 10000 mg/L 96h
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1919 mg/L 48h IUCLID
DO NOT USE - 2-aminoethanol	CAS: 141-43-5 - EINECS: 205-483-3 - INDEX: 603-030-00-8	a) Aquatic acute toxicity : LC50 Fish = 349 mg/L 96
		a) Aquatic acute toxicity : NOEC Fish = 1.24 mg/L
		a) Aquatic acute toxicity : EC50 Daphnia = 65 mg/L 48
		a) Aquatic acute toxicity : NOEC Daphnia = 0.85 mg/L
		a) Aquatic acute toxicity : EC50 Algae = 2.8 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 227 mg/L 96h

IUCLID

a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio = 3684 mg/L 96h
IUCLID

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 300 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 114 mg/L 96h EPA

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss > 200 mg/L 96h
EPA

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 65 mg/L 48h
IUCLID

a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 15 mg/L
72h IUCLID

CAS: 107-98-2 - a) Aquatic acute toxicity : LC50 Fish = 5000 mg/L 96
EINECS: 203-539-1

a) Aquatic acute toxicity : EC50 Daphnia = 23300 mg/L 48

a) Aquatic acute toxicity : EC50 Algae > 1000 mg/L 96

a) Aquatic acute toxicity : LC50 Bacteria > 1000 mg/L 3

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 20.8 g/l 96h
IUCLID

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 23300 mg/L 48h
IUCLID

sodium hydroxide; caustic soda CAS: 1310-73-2 - a) Aquatic acute toxicity : LC50 Fish = 45 mg/L 96
EINECS: 215-185-5
- INDEX: 011-002-
00-6

a) Aquatic acute toxicity : EC50 Daphnia = 40.4 mg/L 48

a) Aquatic acute toxicity : LC50 Fish = 145 mg/L 24

c) Bacteria toxicity : EC50 Bacteria = 22 mg/L - 15 min

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 45.4 mg/L 96h
IUCLID

1,2-benzisothiazol-3(2H)-one; 1,2- CAS: 2634-33-5 - a) Aquatic acute toxicity : LC50 Fish = 2.15000 mg/L
benzisothiazolin-3-one EINECS: 220-120-9
- INDEX: 613-088-
00-6

b) Aquatic chronic toxicity : NOEC Algae = 0.04030 mg/L 72h

b) Aquatic chronic toxicity : EC50 Algae = 0.11000 mg/L 72h

b) Aquatic chronic toxicity : EC10 Algae = 0.04000 mg/L 72h

b) Aquatic chronic toxicity : EC50 Daphnia = 3.27000 mg/L 48h

NOEC Daphnia = 1.20000 mg/L 21d

reaction mass of: 5-chloro-2- CAS: 55965-84-9 - a) Aquatic acute toxicity : EC50 Daphnia = 0.12 mg/L 48
methyl-4-isothiazolin-3-one [EC EINECS: 611-341-5
no. 247-500-7] and 2-methyl-2H - - INDEX: 613-167-
isothiazol-3-one [EC no. 220-239- 00-5
6] (3:1)

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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

Methods of disposal:

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

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

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

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

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

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

Special precautions:

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

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

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

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

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.

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) 2015/830

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

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

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. 2018/1480 (ATP 13 CLP)

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

N.A.

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

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30

SVHC Substances:

No data available

German Water Hazard Class (WGK)

N.A.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
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
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
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
3.2/2	Calculation method
3.3/2	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.