

## Safety Data Sheet

### MAPEGROUT T 40

Safety Data Sheet dated: 14/06/2022 - version 3



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

### 1.1. Product identifier

Mixture identification:

Trade name: MAPEGROUT T 40

Trade code: 901346

UFI: 01Y1-T08S-E00M-YTC3

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

Recommended use: Ready prepared cement mortar

Uses advised against: Data 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](http://www.mapei.co.uk) (office hour 8:30-17:30)

Responsible: [sicurezza@mapei.it](mailto: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 Dam. 1

Causes serious eye damage.

Skin Sens. 1B

May cause an allergic skin reaction.

STOT SE 3

May cause respiratory 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



Danger

#### Hazard statements:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

#### Precautionary statements:

P261

Avoid breathing dust.

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/clothing and eye/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER if you feel unwell.

P333+P313

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

#### Contains:

portland cement, Cr(VI) < 2 ppm

calcium oxide  
calcium hydroxide

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 >= 0.1%.

Other Hazards: No other hazards

Prolonged exposition and/or intensive inhalation of respirable free crystalline silica (average diameter less than 10 micron in accordance with ACGIH) can cause pulmonary fibrosis commonly referred to as silicosis.

This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEGROUT T 40

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	portland cement, Cr(VI) < 2 ppm	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Dam. 1, H318; STOT SE 3, H335	
≥1 - <2.5 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥1 - <2.5 %	calcium hydroxide	CAS:1305-62-0 EC:215-137-3	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	01-2119475151-45-XXXX
≥0.025 - <0.05 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
< 0,00015 %	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:

- 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.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- 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:

In case of inhalation, consult a doctor immediately and show him packing or label.

#### **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)

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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.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.

#### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations  
Scoop into containers and seal for disposal.  
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.  
Use localized ventilation system.  
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

	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
portland cement, Cr(VI) < 2 ppm CAS: 65997-15-1	National	FINLAND		1					FINLAND, respirabel fraktion
	NDS	POLAND		6					frakcja wdychalna
	NDS	POLAND		2					frakcja respirabilna
	SUVA	SWITZERLAND		5					A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	DFG	GERMANY		15					
	National	SPAIN		4,000					5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	PORTUGAL		10					
	National	BELGIUM		10					
	National	HUNGARY		10					
	Malaysi a OEL	MALAYSIA		10,000					
	National	UNITED KINGDOM		10,000					inhalable dust
	National	UNITED KINGDOM		4,000					respirable dust
	National	CROATIA		10,000		10,000			
	DFG	GERMANY	C	15					
	ACGIH	AUSTRALIA		1,000					A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	Malaysi a OEL	MALAYSIA		10					5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	UNITED KINGDOM		10		30,000			5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	UNITED KINGDOM		4,000					
	National	ROMANIA		10					
	ACGIH			1					A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	National	SPAIN		4					
	National	FINLAND		5					
	NDS	POLAND		6					
	National	LATVIA		6					

calcium oxide CAS: 1305-78-8	NDS	2		
	NDSch	6		
	ACGIH	2		URT irr
	National SWEDEN	1	2,5	SWEDEN, Short-term value, 15 minutes average value
	National FINLAND	2		
	National NORWAY	2		NORWAY, T
	National NORWAY	2	4	
	DFG GERMANY C		2	
	ACGIH	2		upper respiratory tract irritation
	National SWEDEN	1		
	National FRANCE	2		
	National SPAIN	1	4	
	National GREECE	1	4	
	National DENMARK	1		
	National GERMANY	1		
	National PORTUGAL	2		
	National BELGIUM	2		
	NDS POLAND	2		
	NDSch POLAND		6	
	CHE SWITZERLAND		2	
	NDS NETHERLANDS	1	4	
	National CZECH REPUBLIC	1		
	National HUNGARY	1	4	
	Malaysi MALAYSIA a OEL	2		
	National ESTONIA	1	4	
	National LATVIA	1	4	
	National CZECH REPUBLIC C		4	
	National SLOVAKIA	5		
	National SLOVENIA	5	5	
	National UNITED KINGDOM	1	4	
	National BULGARIA	1	4	
	National ROMANIA	1	4	
	National LITHUANIA	1	4	
	National CROATIA	1	4	
calcium hydroxide CAS: 1305-62-0	EU	1,000	4,000	
	ACGIH	5,000		
	ACGIH	5		eye, skin and upper respiratory tract irritation
	National GREECE	1	4	
	National DENMARK	1		
	National PORTUGAL	5,000		
	National BELGIUM	5,000		
	Malaysi MALAYSIA a OEL	5		
	National CZECH REPUBLIC C		4	

free crystalline silica (Ø <10 µ) CAS: 14808-60-7	National SLOVENIA	5			
	National ROMANIA	1	4		
	EU	5			Indicative
	DFG GERMANY C		2		
	National SWEDEN	1			
	National FRANCE	5			
	National SPAIN	1	4		
	National FINLAND	1	4		
	National GERMANY	1			
	National NORWAY	1	2		
	NDS POLAND	2			
	NDSch POLAND		4		
	NDS NETHERLANDS	1	4		
	National CZECH REPUBLIC	1			
	National HUNGARY	1	4		
	National ESTONIA	1	4		
	National LATVIA	1	4		
	National SLOVAKIA	5			
	National UNITED KINGDOM	1	4		
	National BULGARIA	1	4		
	TUR TURKEY	5			
	National LITHUANIA	1	4		
	National CROATIA	1	4		
	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			
	National PORTUGAL	0,025			
	National NORWAY	0,3	0,9		
	National BELGIUM	0,1			
	NDS POLAND	0,1			
	NDS NETHERLANDS	0,075			

formaldehyde  
CAS: 50-00-0

National CZECH REPUBLIC		0,1				
National HUNGARY		0,15				
Malaysi MALAYSIA a OEL		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				
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 MALAYSIA a OEL	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
calcium oxide CAS: 1305-78-8	0,49 mg/l	Fresh Water		
	0,32 mg/l	Marine water		
	3 mg/l	Microorganisms in sewage treatments		
	1080 mg/kg	Soil		
	816 mg/l	Soil		
calcium hydroxide CAS: 1305-62-0	0,49 mg/l	Fresh Water		
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
calcium oxide CAS: 1305-78-8	4 mg/m3		4 mg/m3	Human Inhalation		Short Term, local effects
	1 mg/m3		1 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  $\geq 480\text{min}$ .

Nitrile gloves are suggested (1,3 mm; 480 min). 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.

A dust mask (P2) should be worn if above exposure limits (EN 149)

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

#### 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: Solid

Appearance: powder

Color: Grey

Odour: cement like

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available

pH (water dispersion, 10%): 12.00

Viscosity: Not available

Kinematic viscosity: Not available

Solubility in water: partly soluble

Solubility in oil: insoluble

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

Vapour pressure: Not available

Relative density: 1.20 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.

## SECTION 11: Toxicological information

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

Contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids), therefore the contact with skin and eyes should be carefully avoided.

#### Toxicological information of the mixture:

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1B(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	The product is classified: STOT SE 3(H335)
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:

calcium oxide	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rat > 2500 mg/kg
calcium hydroxide	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rabbit > 2500 mg/kg LD50 Oral Rat = 7340 mg/kg
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 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:

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

Not classified for environmental hazards

Based on available data, the classification criteria are not met

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

Component	Ident. Numb.	Ecotox Infos
calcium oxide	CAS: 1305-78-8 - EINECS: 215-138-9	a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96

calcium hydroxide	CAS: 1305-62-0 - EINECS: 215-137-3	a) Aquatic acute toxicity : EC50 Daphnia = 49,1 mg/L 48 b) Aquatic chronic toxicity : NOEC Daphnia = 32 mg/L - 14 d a) Aquatic acute toxicity : LC50 Fish = 50,6 mg/L 96 a) Aquatic acute toxicity : LC50 Daphnia = 158 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 184,57 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 48 mg/L 72 a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish = 50,6 mg/L 96
		a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 49,1 mg/L 48 a) Aquatic acute toxicity : EC50 Algae = 184,57 mg/L 72 e) Plant toxicity : NOEC = 1080 mg/kg - 21 d a) Aquatic acute toxicity : LC50 Fish = 41 mg/L 96
formaldehyde	CAS: 50-00-0 - EINECS: 200-001-8 - INDEX: 605-001-00-5	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

# 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 ) :

ADR-Hazard identification number: NA

Not Applicable

Air ( IATA ) :

Not Applicable

Sea ( IMDG ) :

Not Applicable

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

Not Applicable

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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

The product contains Cr (VI) under the limits established by annex. XVII pt.47. Respect the duration according to the information described on the packaging.

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: None.

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

**SVHC Substances:**

SVHC substances not present in a concentration ≥ 0.1% (w/w)

**National regulations**

Produktregisteret Norge: 52932

MAL-kode: 00-4 (1993)

**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
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

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
3.3/1	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
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
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

**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
3.3/1	Calculation method
3.4.2/1B	Calculation method
3.8/3	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.**