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

1.1. Product identifier

Mixture identification:

Trade name: REDISIT

Trade code: 9025161

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

Recommended use: Cement based levelling mortar

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI AS - Vallsetvegen, 6 - 2120 Sagstua - Norway

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

Giftinformasjonen – phone number: +47 22591300

MAPEI AS - phone: +47-62972000

fax: +47-62972099

www.mapei.no (office hours)

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/protective clothing/eye protection/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

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

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

N.A.

3.2. Mixtures

Mixture identification: REDISIT

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

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥50 - <75 %	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	
≥25 - <50 %	free crystalline silica (Ø >10 µ)	CAS:14808-60-7 EC:238-878-4		
≥0.49 - <1 %	sodium nitrite	CAS:7632-00-0 EC:231-555-9 Index:007-010-00-4	Ox. Sol. 3, H272; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Acute Tox. 3, H301	01-2119471836-27-0000
≥0.1 - <0.25 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 2, H373	
<0.0015 %	vinyl acetate	CAS:108-05-4 EC:203-545-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT SE 3, H335; Carc. 2, H351; Aquatic Chronic 3, H412	01-2119471301-50-XXXX
<0.0015 %	methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	01-2119433307-44-XXXX

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 opthalmologist 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)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

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.

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

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

Component	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	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	FINLAND		5,000		
	National	FINLAND		1,000		
	National	PORTUGAL		10		
	National	BELGIUM		10		
	NDS	POLAND		6,000		
	NDS	POLAND		2,000		
	National	HUNGARY		10		
	Malaysia OEL	MALAYSIA		10,000		
	National	LATVIA		6,000		
	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
	Malaysia 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		10	12,000	
	National	UNITED KINGDOM		4,000		
	National	ROMANIA		10		
	National	CROATIA		10,000		
	National	CROATIA		4,000	10	
free crystalline silica (Ø >10 µ)	NDS	POLAND		0,300		frakcja respirabilna
	National	DENMARK		0,3		DENMARK, inhalable aerosol inhalable aerosol
	National	DENMARK		0,100		DENMARK, respirable aerosol respirable aerosol
	SUVA	GERMANY		0,150		50 µg/m³ (Partikel Durchmesser < 12 µm) - TRGS 906
	National	SWITZERLAND		0,15		A

	ACGIH	NNN		0,025				(R), A2 - Pulm fibrosis, lung cancer
	National	NORWAY		0,300				K 7
sodium nitrite	National	LITHUANIA	C			0,1		
free crystalline silica (Ø <10 µ)	National	SWEDEN		0,100				SWEDEN, respirable aerosol
	National	NORWAY		0,100				K 7
	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
	EU	NNN		0,1				A2 (R) - Pulm fibrosis, lung cancer
	ACGIH	NNN		0,025				(R), A2 - Pulm fibrosis, lung cancer
	National	AUSTRIA		0,150				A
vinyl acetate	NDS	POLAND		10				
	National	SWEDEN		18	5	35	10	SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND		18	5	35	10	
	National	NORWAY		17,6	5	35,2	10	NORWAY, K
	NDSCh	POLAND		30				
	National	NORWAY		30	10	60	20	
	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	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	
	NDSCh	POLAND				30		
	CHE	SWITZERLAND				35	10	
	NDS	NETHERLANDS		18		36		
	National	CZECH REPUBLIC		18				
	National	HUNGARY		17,6		35,2		
	Malaysia OEL	MALAYSIA		35	10			
	National	ESTONIA		18	5	35,2	10	
	National	LATVIA		17,6	5	35,2	10	
	National	CZECH REPUBLIC	C			36		
	National	SLOVAKIA	C			35,2		

	National	SLOVAKIA		36	10				
	National	SLOVENIA		17,6	5	35,2	10		
	National	UNITED KINGDOM		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	
methanol	SUVA	NNN		260	200	1040	800		
	National	SWEDEN		250	200	350	250		SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND		270	200	330	250		FINLAND, hud
	National	NORWAY		130	100				NORWAY, H
	NDS	NNN		100					
	NDSCh	NNN		300					
	National	NORWAY		260	200	520	400		
	ACGIH	NNN			200		250		Skin, BEI - Headache, eye dam, dizziness, nausea
	DFG	GERMANY	C			260	200		
	ACGIH				200		250		Skin - potential significant contribution to overall exposure by the cutaneous route;eye damage;headache; dizziness;nausea
	National	SWEDEN		250	200				
	EU			260	200			Indicative	Possibility of significant uptake through the skin
	National	FRANCE		260	200	1300	1000		
	National	SPAIN		266	200				
	National	GREECE		260	200	325	250		
	National	DENMARK		260	200				
	National	FINLAND		270	200	330	250		
	National	GERMANY		270	200				
	National	PORTUGAL		260	200		250		
	National	NORWAY		130	100	162,5	125		
	National	BELGIUM		266	200	333	250		
	NDS	POLAND		100					
	NDSCh	POLAND				300			
	CHE	SWITZERLAND				1040	800		
	NDS	NETHERLANDS		133					
	National	CZECH REPUBLIC		250					
	National	HUNGARY		260					
	Malaysia OEL	MALAYSIA		262	200				Skin notation
	National	ESTONIA		250	200	350	250		
	National	LATVIA		260	200				
	National	CZECH REPUBLIC	C			1000			
	National	SLOVAKIA		260	200				
	National	SLOVENIA		260	200				
	National	UNITED		266	200	333	250		

	KINGDOM		
National	BULGARIA	260,0	200
National	ROMANIA	260	200
TUR	TURKEY	260	200
National	LITHUANIA	260	200
National	CROATIA	260	200

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
67-56-1	methanol	15	mg/L	Urine	Methyl alcohol	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
sodium nitrite	7632-00-0	0,0054 mg/l	Fresh Water		
		0,00616 mg/l	Marine water		
		0,0195 mg/kg	Freshwater sediments		
		0,0223 mg/kg	Marine water sediments		
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 Industry	Worker Consu Profess merional	Exposure Route	Exposure Frequency	Remark
sodium nitrite	7632-00-0	2 mg/m3		Human Inhalation	Short Term, systemic effects	
		2 mg/m3		Human Inhalation	Long Term, systemic 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:

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 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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 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.

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

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Solid

Appearance and colour: Powder Grey

Odour: cement like

Odour threshold: N.A.

pH: N.A.

pH (water dispersion, 10%): 12.50

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

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.

Apparent density: 1.3

Solubility in water: partly soluble

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

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

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:

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:

free crystalline silica (Ø >10 µ)	a) acute toxicity	LD50 Oral > 2000 mg/kg
		LD50 Skin > 2000 mg/kg
sodium nitrite	a) acute toxicity	LD50 Oral Rat = 180 mg/kg
		LD50 Oral Rat = 85 mg/kg
		LC50 Inhalation Rat = 5,5 mg/l 4h
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg
vinyl acetate	a) acute toxicity	LD50 Oral Rat = 3500 mg/kg
		LD50 Skin Rabbit = 7440 mg/kg
		LC50 Inhalation Rat = 15,8 mg/l 4h
		LD50 Skin Rabbit = 2335 mg/kg
		LC50 Inhalation Rat = 3680 ppm 4h
		LD50 Oral Rat = 2900 mg/kg
methanol	a) acute toxicity	LC50 Inhalation Rat = 22500 ppm 8h
		LD50 Oral Rat = 6200 mg/kg
		LD50 Skin Rabbit = 15840 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
sodium nitrite	CAS: 7632-00-0 - EINECS: 231-555-9 - INDEX: 007-010-00-4	a) Aquatic acute toxicity : LC50 Fish = mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia = mg/L 48

		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 20 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0,19 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0,092 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0,4 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 0,65 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 2,3 mg/L 96h EPA
vinyl acetate	CAS: 108-05-4 - EINECS: 203-545-4	a) Aquatic acute toxicity : EC50 Daphnia = 12,6 mg/L 48
		a) Aquatic acute toxicity : EC50 Algae = 7,48 mg/L 72
		b) Aquatic chronic toxicity : NOEC Fish = 0,551 mg/L - 34 d
		a) Aquatic acute toxicity : NOEC Daphnia = 4,77 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 14 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 15,04 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 26,1 mg/L 96h EPA
methanol	CAS: 67-56-1 - EINECS: 200-659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 28200 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 19500 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 18 mL/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13500 mg/L 96h EPA
		d) Terrestrial toxicity : LC50 Worm Eisenia foetida > 1 mg/cm2 48h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas > 100 mg/L 96h 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 Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. 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.

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.

ADR-Hazard identification number: NA

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

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) 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: 69

SVHC Substances:

No data available

Produktregisteret Norge: 15918

Produktregister Danmark: 4051578

MAL-kode: 00-4 (1993)

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
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.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.14/3	Ox. Sol. 3	Oxidising solid, Category 3
2.6/2	Flam. Liq. 2	Flammable liquid, 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/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
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/2	Calculation method
3.3/1	Calculation method
3.4.2/1B	Calculation method
3.8/3	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:

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION