Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

KLIMA LIGHT CALCE

Date of first edition: 2/2/2022

Safety Data Sheet dated 2/2/2022

version 1

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

1.1. Product identifier

Mixture identification:

Trade name: KLIMA LIGHT CALCE

Trade code: SK0466 .011

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

Recommended use: Cement Adhesive

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy - +39-0536-816511

Ireland

Poison information centre: 01 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: +356 2395 2000 (24h)

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) No 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

P260	Do not breathe dust.
P280	Wear protective gloves and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with applicable regulations.

Contains

Portland Cement (Cr VI < 0,0002%)

Natural Hydraulic Lime

Flue Dust, Portland Cement

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

None

2.3. Other hazards

When mixtures containing cement react with water, for instance when making concrete or mortar, or when the cement becomes wet, a strong alkaline solution is produced (high pH caused by the formation of calcium, sodium and potassium hydroxides).

Cement and mixtures containing cement may irritate the eyes, the mucous system, the throat and the respiratory system and cause coughing. Frequent inhalation of cement dust or mixtures containing cement over a long period of time increases the risk of developing lung diseases.

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

The product contains substances reacting with water and creating a caustic mixture. This mixture becames no longer caustic upon ageing, until diseappearance of any risk when hardening is complete. Depending on the nature and amount of its constituent substances, the product can exhibit hazard labelling, as reported on point 2.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KLIMA LIGHT CALCE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
10-19,9 %	Portland Cement (Cr VI < 0,0002%)	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1B, H317; STOT SE 3, H335	
5-9,9 %	Natural Hydraulic Lime	CAS:85117-09-5 EC:285-561-1	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	
1-2,4 %	Flue Dust, Portland Cement	CAS:68475-76-3 EC:270-659-9	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335	01-2119486767-17
< 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 Specific Concentration Limits: C ≥ 10%: STOT SE 1 H370 3% ≤ C < 10%: STOT SE 2 H371	01-2119433307-44

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off 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 label hazardous.

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).

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.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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.

See protective measures under point 7 and 8.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

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, inhaltion 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.

Contamined 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

The product must be stored in waterproof, dry, clean conditions and protected from contamination. Do not use aluminum containers due to incompatibility of the materials.

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

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Calcium carbonate	NATIONAL	AUSTRALIA		10.000				This value is for inhalable dust containing no asbestos and <1 % crystalline silica.
	NATIONAL	CANADA		10.000				
	NATIONAL	FRANCE		10.000				inhalable aerosol
	NATIONAL	HUNGARY		10.000				inhalable aerosol
	NATIONAL	IRELAND		10.000				Inhalable fraction
	NATIONAL	IRELAND		4.000				Respirable fraction
	NATIONAL	LATVIA		6.000				
	NATIONAL	NEW ZEALAND		10.000				The value for inhalable dust containing no asbestos and less than 1% free silica.
	NATIONAL	POLAND		10.000				
	NATIONAL	SINGAPORE		10.000				(limestone, marble)
	NATIONAL	SWITZERLAND		3.000				respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA		15.000				total dust
	NATIONAL	UNITED STATES OF AMERICA		5.000				respirable dust
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		10.000				inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		4.000				respirable aerosol
	NATIONAL	ITALY		10.000				
	NATIONAL	BELGIUM		10.000				
	NATIONAL	KOREA, REPUBLIC OF		10.000				
	NATIONAL	CROATIA		10.000				
	NATIONAL	NETHERLANDS		10.000				
	NATIONAL	PORTUGAL		10.000				
	NATIONAL	SPAIN		10.000				
	NATIONAL	CHILE		5.000				respirable fraction
Limestone	NATIONAL	BELGIUM		10.000				

	NATIONAL	HUNGARY	10.000	Inhalable aerosol
	NATIONAL	CHINA	8.000	Inhalable fraction
	NATIONAL	CHINA	4.000	Inhalable aerosol
	NATIONAL	KOREA, REPUBLIC OF	10.000	
	NATIONAL	JAPAN	2.000	Respirable dust
	NATIONAL	JAPAN	8.000	Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler
	NATIONAL	SPAIN	10.000	Inhalable aerosol
	NATIONAL	SWITZERLAND	3.000	Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000	OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000	OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000	NIOSH: total dust, calcium carbonate
	NATIONAL	UNITED STATES OF AMERICA	5.000	NIOSH: Respirable aerosol, calcium carbonate
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000	Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000	Respirable aerosol
	NATIONAL	ITALY	10.000	Come particelle non altrimenti specificate PNOC
	NATIONAL	CROATIA	10.000	
	NATIONAL	FRANCE	10.000	
	NATIONAL	NETHERLANDS	10.000	
	NATIONAL	PORTUGAL	10.000	
Portland Cement (Cr VI < 0,0002%)	NATIONAL	AUSTRALIA	10.000	This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
	NATIONAL	AUSTRIA	5.000	Inhalable aerosol
	NATIONAL	BELGIUM	10.000	Respirable fraction
	NATIONAL	CANADA	1.000	Canada Ontario. The value is for particulate matter containing no asbestos an <1 % crystalline silica. Respirable fraction
	NATIONAL	CANADA	10.000	Canada Québec. Total
	NATIONAL	CANADA	5.000	Canada Québec. Respirable
	NATIONAL	KOREA, REPUBLIC	10.000	

		OF		
	NATIONAL	CROATIA	10.000	
	NATIONAL	FINLAND	5.000	Inhalable fraction
	NATIONAL	FINLAND	1.000	Respirable fraction
	NATIONAL	GERMANY	5.000	DFG
	NATIONAL	HUNGARY	10.000	Inhalable
	NATIONAL	IRELAND	1.000	Respirable fraction
	NATIONAL	ITALY	10.000	Come particelle non altrimenti specificate PNOC
	NATIONAL	ITALY	5.000	MAK
	NATIONAL	ITALY	1.000	TWA
	NATIONAL	JAPAN	1.000	Respirable dust
	NATIONAL	JAPAN	4.000	Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler.
	NATIONAL	LATVIA	6.000	
	NATIONAL	NEW ZEALAND	10.000	The value for inhalable dust containing no asbestos and less than 1% free silica.
	NATIONAL	NETHERLANDS	1.000	Respirable dust
	NATIONAL	POLAND	2.000	Respirable fraction
	NATIONAL	PORTUGAL	10.000	
	NATIONAL	PORTUGAL	1.000	
	NATIONAL	SINGAPORE	10.000	
	NATIONAL	SPAIN	4.000	Respirable fraction
	NATIONAL	SWITZERLAND	5.000	Inhalable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000	OSHA; Total dust
	NATIONAL	UNITED STATES OF AMERICA	10.000	NIOSH; Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000	NIOSH; Respirable fraction
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000	Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000	Respirable aerosol
	NATIONAL	CHILE	8.800	
	NATIONAL	INDONESIA	1.000	
	NATIONAL	MALAYSIA	10.000	
	NATIONAL	MEXICO	1.000	
	ACGIH	NNN	1	(E,R), A4 - Pulm func, resp symptoms, asthma
Kaolin	NATIONAL	AUSTRALIA	10.000	This value is for inhalable dust

							containing no asbestos and < 1% crystalline silica.
	NATIONAL	BELGIUM	2.000				
	NATIONAL	CANADA	2.000				Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and<1 percent crystalline silica.
	NATIONAL	CANADA	5.000				Canada Québec
	NATIONAL	DENMARK	2.000		4.000		Respirable aerosol
	NATIONAL	FINLAND	2.000				Respirable fraction
	NATIONAL	FRANCE	10.000				Respirable aerosol
	NATIONAL	IRELAND	2.000				
	NATIONAL	NEW ZEALAND	10.000				Inhalable aerosol
	NATIONAL	NEW ZEALAND	2.000				Respirable aerosol
	NATIONAL	SWITZERLAND	3.000				Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000				OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000				OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000				NIOSH: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	5.000				NIOSH: Respirable fraction
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.000				Respirable aerosol
	ACGIH	NNN	2				(E,R), A4 - Pneumoconiosis
methanol	EU	NNN	260	200			Skin
	NATIONAL	AUSTRIA	260.000	200.000	1040.000	800.000	
	NATIONAL	BELGIUM	266.000	200.000	333.000	250.000	Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air
	NATIONAL	CANADA		200.000		250.000	Ontario
	NATIONAL	CANADA	262.000	200.000	328.000	250.000	Quebec
	NATIONAL	DENMARK	260.000	200.000	328.000	250.000	
	NATIONAL	FINLAND	270.000	200.000	330.000	250.000	
	NATIONAL	FRANCE	260.000	200.000			Bold type: Restrictive statutory limit values Skin
	NATIONAL	GERMANY	270.000	200.000	1080.000	800.000	AGS
	NATIONAL	GERMANY	130.000	100.000	260.000	200.000	DFG
	NATIONAL	HUNGARY	260.000				
	NATIONAL	IRELAND	260.000	200.000			
	NATIONAL	ITALY	260.000	200.000			

NATIONAL	JAPAN		200.000			MHLW
NATIONAL	JAPAN	260.000	200.000			JSOH
NATIONAL	LATVIA	260.000	200.000			
NATIONAL	NEW ZEALAND	262.000	200.000	328.000	250.000	
NATIONAL	CHINA	25.000		50.000		
NATIONAL	POLAND	100.000		300.000		
NATIONAL	ROMANIA	260.000	200.000			
NATIONAL	SINGAPORE	262.000	200.000	328.000	250.000	
NATIONAL	KOREA, REPUBLIC OF	260.000	200.000	310.000	250.000	
NATIONAL	SPAIN	266.000	200.000	333.000	250.000	
NATIONAL	SWEDEN	250.000	200.000	350.000	250.000	
NATIONAL	SWITZERLAND	260.000	200.000	1040.000	800.000	
NATIONAL	NETHERLANDS	133.000				
NATIONAL	TURKEY	260.000	200.000			
NATIONAL	UNITED STATES OF AMERICA	260.000	200.000	325.000	250.000	NIOSH
NATIONAL	UNITED STATES OF AMERICA	260.000	200.000			OSHA
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	266.000	200.000	333.000	250.000	
NATIONAL	ITALY	262.000	200.000	328.000	250.000	TWA
NATIONAL	ITALY	260.000	200.000	1040.000	800.000	TLV
NATIONAL	ARGENTINA		200.000		250.000	
NATIONAL	BULGARIA	260.000	200.000			
NATIONAL	CZECHIA	250.000		1000.000		
NATIONAL	CHILE	229.000	175.000	328.000	230.000	
NATIONAL	CROATIA	260.000	200.000			
NATIONAL	ESTONIA	250.000	200.000	350.000	250.000	
NATIONAL	GREECE	260.000	200.000	325.000	250.000	
NATIONAL	INDONESIA		200.000		250.000	
NATIONAL	IRELAND	260.000	200.000			
NATIONAL	ICELAND	260.000	200.000			
NATIONAL	LITHUANIA	260.000	200.000			
NATIONAL	MALAYSIA	262.000	200.000			
NATIONAL	MEXICO		200.000		250.000	
NATIONAL	NORWAY	130.000	100.000			
NATIONAL	PORTUGAL		200.000		250.000	
ACGIH	NNN		200		250	Skin, BEI - Headache, eye dam, dizziness, nausea
EU	NNN	260	200			Skin

Biological limit values

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
67-56-1	methanol	30	mg/L	Urine	Methyl alcohol	End of turn; End of working week

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
Natural Hydraulic Lime	85117-09-5	574.000 µg/l	Freshwater	
		574.000 µg/l	Intermittent releases (freshwater)	
		374.000 µg/l	Marine water	
		374.000 µg/l	Intermittent releases (marine water)	
		3.511 mg/l	Microorganisms in sewage treatments	
		1262.000 mg/kg	Soil	
Flue Dust, Portland Cement	68475-76-3	282.000 µg/l	Freshwater	
		282.000 µg/l	Intermittent releases (freshwater)	
		28.000 µg/l	Marine water	
		6.000 mg/kg	Microorganisms in sewage treatments	
		88.000 µg/kg	Marine water sediments	
		875.000 µg/kg	Freshwater sediments	
methanol	67-56-1	20.800 mg/l	Freshwater	
		1540.000 mg/l	Intermittent releases (freshwater)	
		2.080 mg/l	Marine water	
		100.000 mg/l	Microorganisms in sewage treatments	
		77.000 mg/kg	Freshwater sediments	
		7.700 mg/kg	Marine water sediments	
		100.000 mg/kg	Soil	

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
Natural Hydraulic Lime	85117-09-5		1.000 mg/m³	1.000 mg/m³	Human Dermal	Long Term, systemic effects
			4.000 mg/m³	4.000 mg/m³	Human Dermal	Short Term, systemic effects
Flue Dust, Portland Cement	68475-76-3		840.000 µg/m³	840.000 µg/m³	Human Inhalation	Long Term, local effects
			4.000 mg/m³		Human Inhalation	Short Term, local effects
methanol	67-56-1		130.000 mg/m³	26.000 mg/m³	Human Inhalation	Long Term, systemic effects
			130.000 mg/m³	26.000 mg/m³	Human Inhalation	Short Term, systemic effects
			130.000 mg/m³	26.000 mg/m³	Human Inhalation	Long Term, local effects
			130.000 mg/m³	26.000 mg/m³	Human Inhalation	Short Term, local effects
			20.000 mg/kg	4.000 mg/kg	Human Dermal	Long Term, systemic effects
			20.000 mg/kg	4.000 mg/kg	Human Dermal	Short Term, systemic effects
				4.000 mg/kg	Human Oral	Long Term, systemic effects
				4.000 mg/kg	Human Oral	Short Term, systemic

effects

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Nitrile rubber .

Respiratory protection:

Particle filter P3 .

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Solid

Color: Grey

Odour: Odourless

Odour threshold: N.A. (OECD 122)

pH: >=11.00<=12.00 Notes 1%

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: > 93°C

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.10 g/cm3 (ISO 2811)

Solubility in water: Slightly soluble

Solubility in oil: N.A.

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

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.00 % ; 0.01 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable as long as it is properly stored (see Section 7).

Wet product is alkaline and incompatible with acids, with ammonium salts, with aluminium or other base metals. When in contact with hydrofluoric acid, mixtures contaning cement dissolve to produce corrosive silicon tetrafluoride gas. Mixtures containing cement react with water to form silicates and calcium hydroxide. Silicates in cement react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

Intact packaging and compliance with the appropriate storage conditions as indicated in Subsection 7.2 (adequate tightly closed and sealed containers, dry and cool place, no ventilation) are the essential conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Acids, ammonium salts, aluminium or other base metals. Uncontrolled use of aluminium dust in wet cement-containing products is to be avoided because it causes the production of hydrogen.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

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:

Natural Hydraulic Lime	a) acute toxicity	LD50 Oral Rat > 2000.00 mg/kg	
		LC50 Inhalation Dust Rat > 6.04 mg/l 4h	
		LD50 Skin Rabbit > 2500.00 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Negative	Mouse
	g) reproductive toxicity	No Observed Adverse Effect Level Oral >= 400.00 mg/kg	Mouse
Flue Dust, Portland Cement	a) acute toxicity	LD50 Oral Rat > 1848.00000 mg/kg	
		LC50 Inhalation Dust Rat > 6.04000 mg/l 4h	
		LD50 Skin Rat >= 2000.00000 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Negative	
	c) serious eye damage/irritation	Eye Irritant Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Positive	
	f) carcinogenicity	Genotoxicity Rat Negative	
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 16.00000 mg/kg	
methanol	a) acute toxicity	LD50 Oral Rat >= 2528.00000 mg/kg	
		LC50 Inhalation = 43.68000 mg/l 6h	Cat
		LD50 Skin Rabbit = 17100.00000 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	

d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal rout
	Carcinogenicity Rat Negative	
g) reproductive toxicity	Lowest Observed Adverse Effect Level Oral = 1000.00000 mg/kg	Mouse

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 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.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Natural Hydraulic Lime	CAS: 85117-09-5 - EINECS: 285-561-1	a) Aquatic acute toxicity : LC50 Fish rainbow trout = 50.60 mg/L 96h ,,OECD Guideline 203 (Fish, Acute Toxicity Test)
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 49.10 mg/L 48h OECD 202
		b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = 32.00 mg/L - 14days
		d) Terrestrial toxicity : NOEC Worm Eisenia fetida = 2000.00 mg/kg
		e) Plant toxicity : EC10 = 1080.00 mg/kg
Flue Dust, Portland Cement	CAS: 68475-76-3 - EINECS: 270-659-9	a) Aquatic acute toxicity : NOEC Fish zebrafish = 11.10000 mg/L 96h ECHA
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 100.00000 mg/L 48h OECD 202
		b) Aquatic chronic toxicity : NOELR Daphnia Daphnia magna = 50.00000 mg/L 48h OECD 211
		b) Aquatic chronic toxicity : EL10 Daphnia Daphnia magna = 68.20000 mg/L 48h OECD 211 - 21 days
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 28.20000 mg/L 72h OECD 20
		a) Aquatic acute toxicity : EC50 Sludge activated sludge = 596.00000 mg/L OECD Guideline No. 209
		b) Aquatic chronic toxicity : EC50 = 9931.00000 mg/kg ,,PARCOM (1994): MAFF/ERT Harmonised Protocol: A sediment Bioassay using an Amphipod, Corophium sp. Draft 1994. - sediment
		d) Terrestrial toxicity : EC50 Worm Eisenia fetida = 1000.00000 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests)
methanol	CAS: 67-56-1 - EINECS: 200-659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 15400.00000 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Fish = 450.00000 mg/L
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 22200.00000 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 208.00000 mg/L

a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 22000.00000 mg/L 96h OECD 201 Guideline.

d) Terrestrial toxicity : NOEC Worm Eisenia andrei = 10000.00000 mg/kg

d) Terrestrial toxicity : NOEC Folsomia candida = 1000.00000 mg/kg OECD Guideline 232

12.2. Persistence and degradability

Component	Persitence/Degradability:
methanol	Readily biodegradable

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Notes
methanol	Not bioaccumulative	BCF - Bioconcentrantion factor	< 10

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 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.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 4: Irritant — skin irritation and eye damage; HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity; HP 13: Sensitising

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

N.A.

14.3. Transport hazard class(es)

N.A.

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

N.A.

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

N.A.

IMDG-EMS: N/A

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID) :

ADR-Label: N.A. N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

N.A.

Sea (IMDG) :

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisioning: N/A

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EN 196-10 – "Methods of Testing Cement - Part 10: Determination of the water-soluble chromium (VI) content of cement"

According to Annex XVII, Point 47, under Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended by Regulation No. 552/2009, cement and mixtures containing cement shall not be placed on the market or used if they contain, after mixing with water, more than 0.0002% (2 ppm) of soluble chromium (VI) of the total dry weight of the cement. Considering that once mixed with water, white cement does not contain more than 0.0002% (2 ppm) of water-soluble Cr (VI) on the total dry weight, the same mixture can be marketed without the addition of reducing agents. Cement is a mixture and, as such, is not subject to REACH registration, which is mandatory for substances. Cement clinker is a substance, but it is exempt from registration pursuant to article 2.7 (b) and Annex V.10 of REACH.

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 (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. 2018/1480 (ATP 13 CLP)

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

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

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: 40

Restrictions related to the substances contained: 69

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

N.A.

Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.

Code	Hazard class and hazard category	Description
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
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
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

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 MSDS 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: Keep Away From Heat
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.

Exposure Scenario

Flue dust, portland cement

Exposure Scenario, 08/06/2021

Substance identity	
	Flue dust, portland cement
CAS No.	68475-76-3
EINECS No.	270-659-9
Registration number	01-2119486767-17

Table of contents

1. ES 1 Widespread use by professional workers; Various products (PC9b, PC9a, PC1, PC15)

1.1 TITLE SECTION

Exposure Scenario name	Road and construction applications - Professional use of floor care products - Tackifier
Date - Version	25/03/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Non-metal surface treatment products (PC15)
Article Category(ies)	Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

Environment Contributing Scenario

CS1 Low environmental release	ERC2

Worker Contributing Scenario

CS2 Mixing operations - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers - Manual - Equipment cleaning and maintenance - Roller, spreader, flow application - Equipment maintenance	PROC5 - PROC8a - PROC8b - PROC10 - PROC11 - PROC19 - PROC26 - PROC28

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC2)

Environmental release categories	Formulation into mixture (ERC2)

Product (article) characteristics

Physical form of product:

Solid, very high dustiness

Vapour pressure:

< 1E-05 Pa

1.2. CS2: Worker Contributing Scenario: Mixing operations - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers - Manual - Equipment cleaning and maintenance - Roller, spreader, flow application - Equipment maintenance (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28)

Process Categories	Mixing or blending in batch processes - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Roller application or brushing - Non industrial spraying - Manual activities involving hand contact - Handling of solid inorganic substances at ambient temperature - Manual maintenance (cleaning and repair) of machinery (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28)

Product (article) characteristics

Physical form of product:

Solid, very high dustiness
Solid in solution
pasty

Concentration of substance in product:

Covers percentage substance in the product up to 5 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration <= 480 min

Frequency:

Use frequency = 8 h/event

Technical and organisational conditions and measures

Technical and organisational measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.
Ensure operatives are trained to minimise exposures.
For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.
Do not ingest.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.
Use eye protection according to EN 166.
Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Covers indoor and outdoor use
Professional use
Temperature: Covers use at ambient temperatures. 23°C
Body parts exposed:
Assumes that potential dermal contact is limited to hands and forearms.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure regular inspection, cleaning and maintenance of equipment and machines. Ensure procedures and training for emergency decontamination and disposal are in place. Ensure control measures are regularly inspected and maintained.

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Mixing operations - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers - Manual - Equipment cleaning and maintenance - Roller, spreader, flow application - Equipment maintenance (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, local, short-term	< 1 mg/m³	MEASE	<= 0.83

Additional information on exposure estimation:

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Exposure Scenario
Lime (chemical), hydraulic

Exposure Scenario, 08/06/2021

Substance identity	
	Lime (chemical), hydraulic
CAS No.	85117-09-5
EINECS No.	285-561-1

Table of contents

1. ES 1 Service life - workers; Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

1.1 TITLE SECTION

Exposure Scenario name	Road and construction applications - Professional use of floor care products - Tackifier
Date - Version	20/05/2021 - 1.0
Life Cycle Stage	Service life - workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Non-metal surface treatment products (PC15)
Article Category(ies)	Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

Environment Contributing Scenario

CS1 Low environmental release	ERC2

Worker Contributing Scenario

CS2 Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers	PROC8b - PROC9 - PROC26

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC2)

Environmental release categories	Formulation into mixture (ERC2)

Product (article) characteristics

Physical form of product:
Solid, very high dustiness

Vapour pressure:
< 1E-05 Pa

1.2. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9, PROC26)

Process Categories	Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Handling of solid inorganic substances at ambient temperature (PROC8b, PROC9, PROC26)

Product (article) characteristics

Physical form of product:
Solid, very high dustiness

Amount used, frequency and duration of use/exposure

Duration:
Exposure duration <= 240 min

Frequency:
Use frequency = 8 h/event

Technical and organisational conditions and measures

Technical and organisational measures
Provide a basic standard of general ventilation (1 to 3 air changes per hour).
Do not ingest.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection
Wear suitable gloves tested to EN374.
Use eye protection according to EN 166.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Indoor use
Professional use
Temperature: Covers use at ambient temperatures. 23°C

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9, PROC26)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, local, short-term	< 1 mg/m³	MEASE	N/A

Additional information on exposure estimation:

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.