

### **Safety Data Sheet**

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

# **KERAKLIMA ECO GRANELLO BIANCO**

Date of first edition: 9/23/2020 Safety Data Sheet dated 11/4/2021

version 5

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

### 1.1. Product identifier

Mixture identification:

Trade name: KERAKLIMA ECO GRANELLO BIANCO

Trade code: SK0211 .043

# 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

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.

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.

# **Precautionary statements**

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P260 Do not breathe dust.

P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 to do. Continue rinsing.

P501 Dispose of contents/container in accordance with applicable regulations.

#### **Contains**

Portland Cement (Cr VI < 0,0002%)

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%.

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: KERAKLIMA ECO GRANELLO BIANCO

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

Qty	Name	Ident. Numb.	Classification	<b>Registration Number</b>
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	
< 1 %	Calcium dihydroxide	CAS:1305-62-0 EC:215-137-3	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	01-2119475151-45
< 1 %	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	01-2119433307-44
			Specific Concentration Limits: $C \ge 10\%$ : STOT SE 1 H370 $3\% \le C < 10\%$ : STOT SE 2 H371	

# **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:

Remove casualty to fresh air and keep warm and at rest.

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# 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 (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

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.

Remove persons to safety.

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.

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
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	SWITZERLA ND	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	NETHERLA NDS	10.000				
	NATIONAL	PORTUGAL	10.000				
Calcium carbonate		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

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	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	SWITZERLA ND	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	NETHERLA NDS	10.000	
	NATIONAL	PORTUGAL	10.000	
	NATIONAL	SPAIN	10.000	
	NATIONAL	CHILE	5.000	respirable fraction
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		10.000	- '
	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

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	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	NETHERLA NDS	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	SWITZERLA ND	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
9	NATIONAL	AUSTRALIA	5.000		
	NATIONAL	AUSTRIA	1.000		Inhalable fraction
	NATIONAL	AUSTRIA C		4.000	Inhalable fraction
	NATIONAL	BELGIUM	5.000		
	NATIONAL		5.000		Ontario
	NATIONAL	CANADA	5.000		Quebec
	NATIONAL		5.000	10.000	
	NATIONAL		1.000	4.000	
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Calcium dihydroxide

NATIONAL	FRANCE	1.000	4.000	Italics type: Indicative statutory limit values; long term and short term: respirable fraction
NATIONAL	GERMANY	1.000	2.000	ASG; Long term and short term: inhalable fraction
NATIONAL	GERMANY	1.000	2.000	DFG; Long term and short term: inhalable aerosol
NATIONAL	HUNGARY	5.000		
NATIONAL	IRELAND	5.000		
NATIONAL	LATVIA	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	NEW ZEALAND	5.000		
NATIONAL	ROMANIA	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	SINGAPORE	5.000		
NATIONAL	SPAIN	5.000		
NATIONAL	SWEDEN	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	SWITZERLA ND	5.000		Inhalable aerosol
NATIONAL	TURKEY	5.000		
NATIONAL	UNITED STATES OF AMERICA	5.000		NIOSH
NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; inhalable aerosol
NATIONAL	UNITED STATES OF AMERICA	5.000		OSHA; respirable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5.000		Inhalable fraction
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	1.000		Respirable fraction
NATIONAL	ITALY	1.000	4.000	
NATIONAL	ARGENTINA	5.000		
NATIONAL	KOREA, REPUBLIC OF	5.000		
NATIONAL	INDONESIA	5.000		
NATIONAL	MALAYSIA	5.000		
NATIONAL	MEXICO	5.000		
	PORTUGAL	5.000		
NATIONAL	SOUTH	5.000		
_	AFRICA			
NATIONAL	TAIWAN, PROVINCE OF CHINA	5.000		

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NATIONAL	BULGARIA	1.000	4.000	
NATIONAL	CZECHIA	1.000	4.000	
NATIONAL	CROATIA	1.000	4.000	Long term and short term:
				respirable dust
NATIONAL	ESTONIA	1.000	4.000	
NATIONAL	ICELAND	1.000	4.000	
NATIONAL	LITHUANIA	1.000	4.000	
NATIONAL	NORWAY	1.000	4.000	
NATIONAL	NETHERLA NDS	1.000	4.000	
NATIONAL	SLOVAKIA	1.000	4.000	
NATIONAL	SLOVENIA	1.000	4.000	
NATIONAL	RUSSIAN FEDERATIO N		2.00	00
NATIONAL	POLAND	2.000	6.000	Long term and short term: inhalable fraction
NATIONAL	POLAND	1.000	4.000	Long term and short term: respirable fraction
ACGIH	NNN	5		Eye, URT and skin irr
EU	NNN	1	4	Respirable fraction
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		10.000		Respirable aerosol
NATIONAL		2.000		
NATIONAL		10.000		Inhalable aerosol
NATIONAL	NEW ZEALAND	2.000		Respirable aerosol
NATIONAL	SWITZERLA ND	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	2.000		Respirable aerosol

Kaolin

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	ACGIH	NNN	2				(E.D.) A4 Proumoconiosis
ma atha a mal	EU	NNN	260	200			(E,R), A4 - Pneumoconiosis Skin
methanol				200.000	1040 000	900 000	SKIII
	NATIONAL		260.000		1040.000		Aller III II II III
	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	SWITZERLA ND	260.000	200.000	1040.000	800.000	
	NATIONAL	NETHERLA NDS	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	<b>Biological Indicator</b>	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	<b>Exposure Route</b>	<b>Exposure Frequency</b>
Calcium dihydroxide	1305-62-0	490.000 μg/l	Freshwater	
		490.000 μg/l	Intermittent releases (freshwater)	
		320.000 µg/l	Marine water	
		3.000 mg/l	Microorganisms in sewage treatments	•
		1080.000 mg/kg	Soil	
Flue dust, portland cement	68475-76-3	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	2
		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	2
		77.000 mg/kg	Freshwater sediments	
		7.700 mg/kg	Marine water sediments	
		100.000 mg/kg	Soil	
Derived No Effect Lev	(al (DNEL) va	luos		

# **Derived No Effect Level (DNEL) values**

Component		Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
Calcium dihydroxide	1305-62-0		1.000 mg/m <sup>3</sup>	1.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects

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		4.000 mg/m <sup>3</sup>	4.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
Flue dust, portland cement	68475-76-3	840.000 μg/m³	<sup>3</sup> 840.000 μg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
		4.000 mg/m <sup>3</sup>		Human Inhalation	Short Term, local effects
methanol	67-56-1	130.000 mg/m³	26.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
		130.000 mg/m³	26.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
		130.000 mg/m³	26.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
		130.000 mg/m³	26.000 mg/m <sup>3</sup>	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:

Disposable suit.; Safety shoes.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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: White Odour: Odourless Odour threshold: N.A.

pH: = 12.80

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: Not Applicable

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

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.58 g/cm3
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.

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Flammability: N.A.

Particle size: N.A.

Volatile Organic compounds - VOCs = 0.00 %; 0.02 g/l

**Particle characteristics:** 

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 containing 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

Humidity

# 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

The product is classified: Skin Irrit. 2(H315) b) skin corrosion/irritation c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318) The product is classified: Skin Sens. 1B(H317) d) respiratory or skin sensitisation

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Not classified f) carcinogenicity

Based on available data, the classification criteria are not met

Not classified g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

Not classified i) STOT-repeated exposure

Based on available data, the classification criteria are not met

Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

Calcium dihydroxide a) acute toxicity LD50 Oral Rat > 2000.00000 mg/kg

LC50 Inhalation Dust Rat > 6.04000 mg/l 4h

LD50 Skin Rabbit > 2500.00000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Positive

damage/irritation

d) respiratory or skin

Eye Irritant Rabbit Yes

c) serious eye

Skin Sensitization Negative

sensitisation

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	f) carcinogenicity	Carcinogenicity Oral Rat = 517.00000 mg/kg	NOAEL
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	on 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	n 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**

Component

### 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

Calcium dihydroxide	CAS: 1305-62-0 a) Aquatic acute toxicity: LC50 Fish rainbow trout = 50.60000 mg/L 96h

Ident. Numb. Ecotox Data

- EINECS: 215-

137-3

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 49.10000 mg/L 48h

b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = 32.00000 mg/L 48h - 14days

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 184.57000 mg/L 72h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)

a) Aquatic acute toxicity : EC50 Sludge activated sludge = 300.40000 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test

d) Terrestrial toxicity: NOEC Worm Eisenia fetida = 2000.00000 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests)

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d) Terrestrial toxicity: EC10 soil microorganisms = 4000.00000 mg/kg ,,Guideline: BBA VI, 1-1 (1990) under consideration of OECD 216 (2000) and OECD 217 (2000).

Flue dust, portland cement

CAS: 68475-76 3 - EINECS: 270-659-9

- CAS: 68475-76- 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 48 $\,$ h
- 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/Degradabili

ty:

methanol Readily biodegradable

# 12.3. Bioaccumulative potential

ComponentBioaccumulationTestNotesmethanolNot bioaccumulativeBCF - Bioconcentrantion<br/>factor< 10</td>

### 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

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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 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

### 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)

Date 11/4/2021

Production Name

KERAKLIMA ECO GRANELLO BIANCO

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.

NWG: Not hazardous for water

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

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 ${f 1}$
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

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

Classification according to Regulation Classification procedure

(EC) Nr. 1272/2008 3.2/2

Calculation method

3.3/1 On basis of test data (pH)

3.4.2/1B 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

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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).

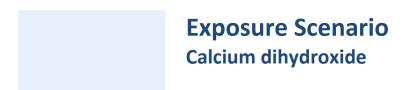
vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

# Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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# Exposure Scenario, 24/06/2021

Substance identity	
	Calcium dihydroxide
CAS No.	1305-62-0
EINECS No.	215-137-3
Registration number	01-2119475151-45

# Table of contents

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

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

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Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants
Date - Version	24/06/2021 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
<b>Product Categories</b>	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (PC9b) - Non-metal surface treatment products (PC15)

# **Environment Contributing Scenario**

CS1	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Hand application - finger paints, pastels, adhesives - Rolling, Brushing	PROC10
CS4 Mixing operations - Manual	PROC19

# 1.2 Conditions of use affecting exposure

# 1.2. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

Environmental release	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to
categories	inclusion into/onto article (outdoor) (ERC8c, ERC8f)

# **Product (article) characteristics**

# **Physical form of product:**

Solid, medium dustiness

# Vapour pressure:

< 1E-05 Pa

# 1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

<b>Process Categories</b>	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities			
	(PROC8a)			

# **Product (article) characteristics**

# Physical form of product:

Solid, medium dustiness

# Amount used, frequency and duration of use/exposure

# **Duration:**

Exposure duration <= 480 min

# Technical and organisational conditions and measures

# **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.  Avoid direct eye contact with product, also via contamination on hands.  Do not ingest.  Local exhaust ventilation	Inhalation - minimum efficiency of: 72 %
--	--

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

# **Personal protection**

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

### **Body parts exposed:**

Assumes that potential dermal contact is limited to upper part of the body.

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

# **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.2. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

**Process Categories** 

Roller application or brushing (PROC10)

# **Product (article) characteristics**

# Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

### **Duration:**

Exposure duration <= 480 min

Technical and organisational conditions and measures

# **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.

Avoid direct eye contact with product, also via contamination on hands.

Do not ingest.

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

# **Personal protection**

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

**Temperature:** Covers use at ambient temperatures.

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

# **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.2. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

**Process Categories** 

Manual activities involving hand contact (PROC19)

# **Product (article) characteristics**

# Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

### **Duration:**

Exposure duration <= 240 min

Technical and organisational conditions and measures

### **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.

Avoid direct eye contact with product, also via contamination on hands.

Do not ingest.

Local exhaust ventilation

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

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

### Personal protection

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

### **Body parts exposed:**

Assumes that potential dermal contact is limited to upper part of the body.

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

# **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.3 Exposure estimation and reference to its source

# 1.3. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
soil	N/A	N/A	= 0.65

# 1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

# 1.3. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

# Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

# 1.3. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

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

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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	Formulation into mixture (ERC2)
categories	

# **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, 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, 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, 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/m <sup>3</sup>	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.