

Safety Data Sheet

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

KERACEM ECO PRONTO

Date of first edition: 1/23/2020 Safety Data Sheet dated 2/3/2023

version 11

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

1.1. Product identifier

Mixture identification:

Trade name: KERACEM ECO PRONTO

Trade code: SK0036 .234

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

Recommended use: Mortar for screeds

Uses advised against: All uses other than recommended ones

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.

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

P102 Keep out of reach of children.

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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.

In case of prolonged contact with the skin, both cement and mixtures containing cement, including pastes, may cause skin sensitisation due to the presence of trace amounts of chromium VI salts. Where necessary, such an effect can be minimized by incorporating a special reducing agent to maintain the water-soluble chromium VI content to concentration rates below 0.0002% (2 ppm) on the total dry weight of cement.

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: KERACEM ECO PRONTO

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	
< 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
< 0,2 %	Calcium oxide	CAS:1305-78-8 EC:215-138-9	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	01-2119475325-36
< 0,01 %	Quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	

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.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

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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.

The product contains cement with an addition of a Chromium reducing agent (VI) and its effectiveness decreases with time. Consequently, packagings of the material indicate information about the production date, storing conditions and the appropriate storage period for the mantaining of the activity of the reducing agent and for mantaining the soluble Chromium (VI) amount under 2ppm over the total dry weight referred to cement (EN 196-10).

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

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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
Dolomite	NATIONAL	LATVIA	6.000				
	NATIONAL	POLAND	10.000				
Quartz	NATIONAL	AUSTRALIA	0.050				Respirable fraction
	NATIONAL	AUSTRIA	0.050				MAK value, Respirable fraction
	NATIONAL	BELGIUM	0.100				Respirable dust , Additional indication "C" means that the agent falls within the scope of Title 2 concerning carcinogenic, mutagenic and reprotoxic agents of Book VI of the Codex on well-being at work
	NATIONAL	CANADA	0.100				Canada Ontario; Respirable aerosol
	NATIONAL	CANADA	0.100				Canada Quebec, Respirable fraction
	NATIONAL	DENMARK	0.300		0.600		Inhalable aerosol
	NATIONAL	DENMARK	0.100		0.200		Respirable aerosol
	NATIONAL	FINLAND	0.050				Respirable fraction
	NATIONAL	FRANCE	0.100				Respirable aerosol
	NATIONAL	HUNGARY	0.100				Respirable fraction
	NATIONAL	IRELAND	0.100				Respirable fraction
	NATIONAL	SPAIN	0.050				Respirable fraction
	NATIONAL	SWEDEN	0.100				Respirable fraction
	NATIONAL	SWITZERLA ND	0.150				Respirable aerosol
	NATIONAL	NETHERLA NDS	0.075				Respirable fraction
	NATIONAL	ITALY	0.100				Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008
	NATIONAL	UNITED STATES OF AMERICA	0.050				NIOSH
	NATIONAL	UNITED STATES OF AMERICA	0.050				Respirable fraction, mppcf × 35.3 = million particles per cubic meter = particles per c.c.
	NATIONAL	INDIA	10.000				
	NATIONAL	NORWAY	0.300				Total dust
	NATIONAL	NORWAY	0.100				Respirable fraction
	NATIONAL	POLAND	0.100				Respirable fraction
	NATIONAL	PORTUGAL	0.050				Respirable fraction
	NATIONAL	SLOVENIA	0.050	0.400			
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	POLAND	10.000				
	NATIONAL	SWITZERLA ND	3.000				respirable aerosol

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NATIONAI NATIONAI NATIONAI	STATES OF AMERICA UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND UNITED KINGDOM	15.000 5.000 10.000	respirable dust inhalable aerosol
	STATES OF AMERICA UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND UNITED KINGDOM	10.000	
NATIONA	KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND UNITED KINGDOM		inhalable aerosol
	KINGDOM	4.000	
NATIONAI	OF GREAT BRITAIN AND NORTHERN IRELAND		respirable aerosol
NATIONA	BELGIUM	10.000	
NATIONA	CROATIA	10.000	
NATIONAL	NETHERLA NDS	10.000	
NATIONA	PORTUGAL	10.000	
NATIONAL	SPAIN	10.000	
Portland Cement (Cr NATIONAl VI < 0,0002%)	L AUSTRALIA	10.000	This value is for inhalable dust containing no asbestos and $<$ 1% crystalline silica.
NATIONAL	AUSTRIA	5.000	Inhalable aerosol
NATIONAL	_ BELGIUM	1.000	Respirable fractionRespirable fraction, no asbestos fibres and < 1% crystalline silica
NATIONAI	_ CANADA	1.000	Canada Ontario. The value is for particulate matter containing no asbestos an <1 % crystalline silica. Respirable fraction
NATIONAI	L CANADA	1.000	Canada - Québec Respirable fraction. The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
NATIONAL	CROATIA	10.000	
NATIONA	FINLAND	5.000	Inhalable fraction
NATIONAL	_ FINLAND	1.000	Respirable fraction
NATIONAL	GERMANY	5.000	DFG
NATIONAL	L HUNGARY	10.000	Inhalable
NATIONAL	L IRELAND	1.000	Respirable fraction
NATIONA	L LATVIA	6.000	
NATIONAI	NETHERLA NDS	1.000	Respirable dust
NATIONA	POLAND	2.000	Respirable fraction
NATIONA	L PORTUGAL	10.000	
NATIONAL	PORTUGAL	1.000	
NATIONAL	_ SPAIN	4.000	Respirable fraction
NATIONAL	L SWITZERLA ND	5.000	Inhalable aerosol
NATIONAL	UNITED STATES OF	15.000	OSHA; Total dust

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	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
Calcium oxide	NATIONAL	AUSTRALIA	2.000		
-	NATIONAL		1.000		Inhalable fraction
	NATIONAL		1.000	4.000	Inhalable fraction
			1 000		
	NATIONAL	BELGIUM	1.000	4.000	Long term and short term: respirable fraction
	NATIONAL	CANADA	2.000		Ontario
	NATIONAL	CANADA	2.000		Quebec
	NATIONAL	DENMARK	2.000	4.000	
	NATIONAL	FINLAND	1.000	4.000	
	NATIONAL	FRANCE	1.000	4.000	Long term and short term: inhalable fraction
	NATIONAL	GERMANY	1.000	2.000	AGS; long term and short term: inhalable fraction
	NATIONAL	GERMANY	1.000	2.000	DFG; long term and short term: inhalable fraction
	NATIONAL	HUNGARY	5.000	5.000	
	NATIONAL	IRELAND	2.000		
	NATIONAL	LATVIA	1.000	4.000	Long term and short term: respirable fraction
	NATIONAL	NEW ZEALAND	2.000		
	NATIONAL	CHINA	2.000		
	NATIONAL	POLAND	2.000	6.000	
	NATIONAL	ROMANIA	1.000	4.000	Long term and short term: respirable fraction
	NATIONAL	SINGAPORE	2.000		
	NATIONAL	KOREA, REPUBLIC OF	2.000		
	NATIONAL	SPAIN	5.000		
	NATIONAL	SWEDEN	1.000	4.000	Long term and short term: respirable fraction
	NATIONAL	SWITZERLA ND	2.000	2.000	Long term and short term: inhalable aerosol
	NATIONAL	UNITED STATES OF AMERICA	2.000		NIOSH

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NATIONAL	UNITED STATES OF AMERICA	5.000		OSHA
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.000		Inhalable fraction
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	1.000		Respirable fraction
NATIONAL	ITALY	1.000	4.000	
NATIONAL	ARGENTINA	2.000		
NATIONAL	BULGARIA	1.000	5.000	
NATIONAL	CZECHIA	1.000	4.000	
NATIONAL	CHILE	1.750		
NATIONAL		1.000	4.000	Long term and short term: respirable dust
NATIONAL	ESTONIA	1.000	4.000	
NATIONAL	GREECE	1.000	4.000	
NATIONAL	INDONESIA	2.000		
NATIONAL	ICELAND	1.000	4.000	
NATIONAL	LITHUANIA	1.000	4.000	
NATIONAL	NORWAY	1.000	4.000	
NATIONAL	PORTUGAL	2.000		
NATIONAL	RUSSIAN FEDERATIO N		1.000	
NATIONAL	SLOVAKIA	1.000	4.000	
NATIONAL	SLOVENIA	1.000	4.000	
NATIONAL	SOUTH AFRICA	2.000		
NATIONAL	TAIWAN, PROVINCE OF CHINA	2.000		
ACGIH	NNN	2.000		URT irr
EU	NNN	1.000	4.000	Respirable fraction
NATIONAL	AUSTRALIA	0.050		Respirable fraction
NATIONAL	AUSTRIA	0.050		respirable fraction
NATIONAL	BELGIUM	0.100		Respirable dust , Additional indication "C" means that the agent falls within the scope of Title 2 concerning carcinogenic, mutagenic and reprotoxic agents of Book VI of the Codex on well-being at work
NATIONAL	CANADA	0.100		Canada Ontario. Respirable aerosol
NATIONAL	CANADA	0.100		Canada Quebec, respirable fraction
NATIONAL	DENMARK	0.300	0.600	Inhalable aerosol
NATIONAL	DENMARK	0.100	0.200	Respirable aerosol
NATIONAL	FINLAND	0.050		Respirable fraction
NATIONAL	FRANCE	0.100		Respirable aerosol
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Quartz

NATIONAL	HUNGARY	0.100			Respirable aerosol
NATIONAL	IRELAND	0.100			Respirable fraction
NATIONAL	SPAIN	0.050			Respirable fraction
NATIONAL	SWEDEN	0.100			Respirable aerosol
NATIONAL	SWITZERLA	0.150			Respirable aerosol
	ND				•
NATIONAL	NETHERLA NDS	0.075			Respirable dust
NATIONAL	ITALY	0.100			Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008
NATIONAL	UNITED STATES OF AMERICA	0.050			NIOSH
NATIONAL	CROATIA	0.100			
NATIONAL	ESTONIA	0.100			
NATIONAL	LITHUANIA	0.100			
NATIONAL	NORWAY	0.300			Total dust
NATIONAL	NORWAY	0.100			Respirable dust
NATIONAL	POLAND	0.100			Respirable fraction
NATIONAL	PORTUGAL	0.050			
NATIONAL	SLOVENIA	0.050	0.400		
EU	NNN	0.100			Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398
NATIONAL	INDIA	10.000			
NATIONAL	AUSTRALIA	10.000			
NATIONAL	BELGIUM	10.000			
NATIONAL	CANADA	10.000			Ontario
NATIONAL	CANADA	10.000			Quebec
NATIONAL		6.000		12.000	Long term and short term:
					inhalable aerosol
NATIONAL	FRANCE	10.000			Respirable aerosol
NATIONAL	GERMANY	4.000			DFG; inhalable aerosol
NATIONAL	GERMANY			1.500	DFG; respirable aerosol
NATIONAL	HUNGARY	6.000		24.000	Long term and short term: respirable aerosol
NATIONAL	IRELAND	10.000			Respirable fraction
NATIONAL	IRELAND			4.000	Inhalable fraction
NATIONAL	IRELAND	5.000			Fume
NATIONAL	IRELAND	10.000			Inhalable fraction
NATIONAL	NEW ZEALAND	10.000			Fume
NATIONAL	CHINA	10.000			
NATIONAL		5.000			Fume
NATIONAL		10.000			Dust
NATIONAL	SINGAPORE	10.000			
NATIONAL	KOREA, REPUBLIC OF	10.000			
NATIONAL	SPAIN	10.000			Inhalable aerosol
NATIONAL		10.000			Respirable aerosol
NATIONAL	SWITZERLA ND	3.000			Respirable aerosol

Magnesium oxide

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NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; total 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	ARGENTINA	10.000		
NATIONAL	AUSTRIA	10.000		
NATIONAL	CZECHIA	5.000	10.000	
NATIONAL	CROATIA	10.000		total dust
NATIONAL	CROATIA	4.000		Respirable dust
NATIONAL	GREECE	10.000		
NATIONAL	GREECE	5.000		
NATIONAL	INDONESIA	10.000		
NATIONAL	ICELAND	6.000		
NATIONAL	LITHUANIA	4.000		
NATIONAL	NORWAY	10.000		
NATIONAL	POLAND	10.000		
NATIONAL	PORTUGAL	10.000		
NATIONAL	ROMANIA	5.000	15.000	
NATIONAL	RUSSIAN FEDERATIO N		4.000	
NATIONAL	SLOVAKIA	4.000		respirable fraction
NATIONAL	SLOVAKIA	10.000		Inhalable fraction
NATIONAL	SLOVENIA	6.000		
NATIONAL	SOUTH AFRICA	5.000	10.000	fume and respirable particulate
NATIONAL	SOUTH AFRICA	10.000		Inhalable particulate
NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000		Fume

Predicted No Effect Concentration (PNEC) values

Component Flue Dust, Portland Cement	CAS-No. 68475-76-3	PNEC Limit 3 282.000 μg/l	Exposure Route Freshwater	Exposure Frequency
		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	
Calcium oxide	1305-78-8	370.000 μg/l	Freshwater	
		370.000 μg/l	Intermittent releases (freshwater)	

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240.000 μg/l Marine water
 240.000 μg/l Intermittent releases (marine water)
 2.270 mg/l Microorganisms in sewage treatments

Soil

817.000 mg/kg

Derived No Effect Level (DNEL) values

Component	CAS-No. Worker Industry	Worker Consumer Professional	Exposure Route	Exposure Frequency
Flue Dust, Portland Cement	68475-76-3	840.000 μg/m³ 840.000 μg/m³	Human Inhalation	Long Term, local effects
		4.000 mg/m ³	Human Inhalation	Short Term, local effects
Calcium oxide	1305-78-8	1.000 mg/m³ 1.000 mg/m³	Human Inhalation	Long Term, local effects
		1.000 mg/m³ 1.000 mg/m³	Human Inhalation	Short Term, local effects

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.; EN 166

Protection for skin:

Chemical protection clothing.; Safety shoes.

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; EN 374:

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

Respiratory protection:

N.A.

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. pH: =11.00 (OECD 122) 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: 1.74 g/cm3 (EN 1097-03)

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 %; 0 g/l

Particle characteristics:

Particle size: N.A.

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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 to keep the effectiveness of the reducing agent unaltered throughout the shelf life declared on bag.

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) The product is classified: Eye Dam. 1(H318) c) serious eye damage/irritation 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

Not classified f) carcinogenicity

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

Not classified h) STOT-single exposure

Based on available data, the classification criteria are not met

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:

Flue Dust, Portland Cement

LD50 Oral Rat > 1848.00000 mg/kg a) acute toxicity

> 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 Eye Irritant Yes

damage/irritation

d) respiratory or skin Skin Sensitization Positive

sensitisation

Genotoxicity Rat Negative f) carcinogenicity

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16.00000 mg/kg

Calcium oxide 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 24h

b) skin corrosion/irritation Skin Irritant Rabbit Positive

c) serious eye damage/irritation

Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Negative

Mouse

f) carcinogenicity Carcinogenicity

Quartz a) acute toxicity LD50 Oral > 2000.00000 mg/kg

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

Component

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	raciici itaiiibi	ECOLOX Data
Flue Dust, Portland Cement	CAS: 68475-76-	a) Aquatic acute toxicity : NOEC Fish zebrafish = 11.10000 mg/L 96h ECHA

Ecotox Data

3 - EINECS: 270-659-9

Ident Numb

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)

Calcium oxide CAS: 1305-78-8 a) Aquatic acute toxicity: LC50 Fish rainbow trout = 50.60000 mg/L 96h

- EINECS: 215- OECD 203

138-9

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna <= 49.10000 mg/L 48h OECD 202

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 1848.57000 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)

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- d) Terrestrial toxicity : NOEC Worm Eisenia fetida = 2000.00000 mg/kg OECD test guideline 207
- e) Plant toxicity: NOEC = 1080.00000 mg/kg OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) 21days

12.2. Persistence and degradability

N.A

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 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):

 ${\sf HP\ 4: Irritant-skin\ irritation\ and\ eye\ damage;\ HP\ 13:\ Sensitising}$

SECTION 14: Transport information

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)

ADR-Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: 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

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IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: 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. Compliance with this threshold limit is ensured through the introduction of a reducing agent into the preparation, the effectiveness of which is guaranteed for a certain period of time (shelf life), and the maintenance of the appropriate storage conditions (see Subsection 7.2 and Section 10).

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: None

Restrictions related to the substances contained: 75

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

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H372	Causes damage to organs through prolonged or repeated exposure.			
Code	Hazard class and hazard category	Description		
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		
3.8/3	STOT SE 3 Specific target organ toxicity — single exposure, Categ			
3.9/1	STOT RE 1 Specific target organ toxicity — repeated exposure, Category			

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

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

H315 H317

H318

H335

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.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause respiratory irritation.

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

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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).

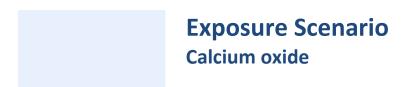
vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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Exposure Scenario, 22/06/2021

Substance identity	
	Calcium oxide
CAS No.	1305-78-8
EINECS No.	215-138-9
Registration number	01-2119475325-36

Table of contents

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

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

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Exposure Scenario name	Insulators - Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants - Waterproofing agent		
Date - Version	22/06/2021 - 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)		

Environment Contributing Scenario

CS1 Low environmental release	ERC8c - ERC8f	
Worker Contributing Scenario		
CS2 Rolling, Brushing - Material transfers	PROC8a - PROC10	
CS3 Mixing operations	PROC19	

1.2 Conditions of use affecting exposure

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

Amount used, frequency and duration of use (or from service life)

Amounts used:

Application rate = 18000 kg/ha

Technical and organisational conditions and measures

Control measures to prevent releases

Prevent discharge of undissolved substance to or recover from onsite wastewater.

1.2. CS2: Worker Contributing Scenario: Rolling, Brushing - Material transfers (PROC8a, PROC10)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities -		
	Roller application or brushing (PROC8a, PROC10)		

Product (article) characteristics

Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration = 480 h/day

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

Use suitable eye protection.

Wear suitable respiratory protection.

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.2. CS3: Worker Contributing Scenario: Mixing operations (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 = 480 h/day

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

Use suitable eye protection.

Wear suitable respiratory protection.

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Low environmental release (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: Rolling, Brushing - Material transfers (PROC8a, PROC10)

Ехр	osure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inha	alative	< 1 mg/m ³	MEASE	N/A

Additional information on exposure estimation:

Dermal exposure is considered to be not relevant.

1.3. CS3: Worker Contributing Scenario: Mixing operations (PROC19)

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

Additional information on exposure estimation:

Dermal exposure is considered to be not relevant.

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	
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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 ³	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.