PRO-250 LEVEL-QS SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY OR UNDERTAKING

1.1 Product Identifier:

PRO-250 LEVEL-QS

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

Life cycle stages
C/PW Consumer use / Widespread use by professional workers

Sector of Use
SU19 Building and construction work

Product category
PC9b Fillers, putties, plasters, modelling clay

Process category
PROC19 Manual activities involving hand contact

Environmental release category
ERC10a / ERC11a Widespread use of articles with low release

Article category
AC4 Stone, plaster, cement, glass and ceramic articles

Application of the substance / the preparation
Cement screed - Product for an industrial, technical and private use for mixing with water and subsequent processing on buildings. For all other uses is advised against/ not recommended.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:
EWI Pro Insulation Systems Ltd
Unit 1-2, King Georges Trading Estate, Davis Road, Chessington, England, KT9 1TT
0800 133 7072
info@ewipro.com
technical@ewipro.com

Producer:
KREISEL - Technika Budowlana Sp. z o.o., ul. Szarych Szeregów 23, 60-462 Poznań, Poland
Tel. +48 61 846 79 00
Fax +48 61 846 79 09
sekretariat@kreisel.pl
www.kreisel.pl

1.4 Emergency phone number:

Environment Agency Emergency Hotline: +44/(0)800 80 70 60

Emergency Services (UK): 999

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Additional information:
The classification in terms of skin and eye irritation is based on the results of animal studies, see section 16 literature [4], [11] and [12].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms
GHS05 GHS07

Signal word
Danger

Hazard-determining components of labelling:
Portland cement clinker

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in keeping with local and national regulations.

2.3 Other hazards

As soon as the dry mixture comes into contact with water or humidity, a strongly alkaline solution will be formed. Wet mortar may cause skin and eye irritation due to the high alkalinity. Especially with prolonged contact (e.g. knees in wet mortar) the risk of serious skin damage increases due to the alkalinity.

The part of respirable, cristaline siliciumdioxide amounts below 1%. The product ist no subject to a declaration obligation. However, the use of breathing protection is advisable.

Dust from the dry mixture can cause respiratory irritation. Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.

The mixture is chromate reduced and therefore is no risk of sensitization by chromate. The ready to use form after addition of water contains in maximum 0,0002% of soluble chromium(VI) based on the dry weight of the cement. Proper dry storage and compliance with the maximum storage time is required for an effective chromate reduction.

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Results of PBT and vPvB assessment
PBT: This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.
vPvB: This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties
This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Substances

This product is a mixture.

3.2 Mixtures

Description:
Mixture of inorganic binders, fillers and nonhazardous additions

Dangerous components:		
CAS: 14808-60-7 EINECS: 238-878-4 REACH: [1]	Silicon dioxide (< 1% RCS) Consisting of: 14808-60-7 Quartz (SiO_2); 14464-46-1 Cristobalite; 15468-32-3 Tridymite Substance with a Community workplace exposure limit	25 - 50%
CAS: 65997-15-1 EINECS: 266-043-4 REACH: [1]	Portland cement clinker Consisting of: 12168-85-3 Tricalcium silicate (45 - 70%); 10034-77-2 Dicalcium silicate (5 - 25%); 12042-78-3 Tricalcium aluminate (0 - 10%); 12612-16-7 Calcium aluminate ferrite (0 - 10%)  Eye Dam. 1, H318;  Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 1 % Eye Dam. 1; H318: C ≥ 1 %	≥ 10 - < 20%
CAS: 1317-65-3 EINECS: 215-279-6 REACH: [1]	Limestone (Calcium carbonate) Consisting of: 471-34-1 Calcium carbonate (> 90%); 16389-88- 1 Calcium/Magesium carbonate (0 - 10%); 14808-60-7 Quartz (SiO_2) (0 - 10%); 68476-25-5 Feldspar-group minerals (0 - 5%); 12001-26-2 Mica-group minerals (0 - 5%) Substance with a Community workplace exposure limit	2.5 - 5%

Other components (>20%):		
CAS: 7778-18-9 EINECS: 231-900-3 REACH: 01-2119444918-26	Calcium sulphate, various hydrates $CaSO_4$ x (0 - 2) H_2O Consisting of: 14798-04-0 Calcium sulfate anhydrite; 10034-76-1 Calcium sulphate hemihydrate; 13397-24-5 Calcium sulphate hydrate; 10101-41-4 Calcium sulphate dihydrate	10 - 25%

Additional information:
For the wording of the listed hazard phrases refer to section 16.

[1] Not subject to registration in accordance with EC 1907/2006 Annex V (point 7) or Article 2

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

General information:
For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

After inhalation:
Remove dust source and provide fresh air or bring the person in fresh air. If discomfort, cough or persistent irritation, seek medical attention.

After skin contact:
Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contaminated shoes before reuse. If skin irritation continues, consult a doctor.

After eye contact:
Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

After swallowing:
Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control centre.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are described in section 2 and 11.
Eye contact with the product may cause serious and potentially permanent damage.
The product in the dry state by prolonged contact can also have an irritant effect on moist skin. The contact with moist skin may cause skin irritation, dermatitis or other serious skin damage.

4.3 Indication of any immediate medical attention and special treatment needed

If a physician is to be consulted, as per possibility he should be presented this safety data sheet.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing agents:
The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and firefighting are therefore adjusted to the surrounding fire.

5.2 Special hazards arising from the substance or mixture

This product is neither explosive nor flammable, and non-oxidizing with other materials. Inorganic dust can appear in case of fire. Avoid formation of dust. Reacts alkaline with water.

5.3 Advice for firefighters

No special measures required. Collect contaminated firefighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation of dust. Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 Environmental precautions

Do not allow product to reach water because an increase of pH may be caused. Ecotoxicological effects may occur when the pH-value is above 9. National regulations for wastewater and groundwater are to be observed.

6.3 Methods and material for containment and cleaning up

Collect spilled dry material dry and use if possible. Avoid formation of dust. For cleaning use at least industrial vacuum dust class M (DIN EN 60335-2-69). Do not dry sweep. Never use compressed air for cleaning. If, during a dry-cleaning dust is formed, then it is necessary to use personal protective equipment. Avoid inhalation of emerging dust and contact with skin. Dispose of the material collected according to regulations.

Let the mixed mortar solidify and dispose of (see section 13.1).

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Do not use products after the specified storage period any more, because the effect of the reducing agent contained decreases and the content of soluble chromium (VI) may exceed those limits mentioned in section 2.3. In these cases may develop an allergic Chromate dermatitis with prolonged contact due to the water-soluble chromate contained in the product.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles. Do not use light alloy receptacles.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Store dry. Prevent ingress of water and moisture. Always keep in original container. Improper storage (ingress of moisture) or exceeding the maximum storage period, can subside the effect of contained chromate reducer (see section 7.1).

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Miniumum storage life:

Minimum storage life (story dry, up to 20°C): See indication on package.

Storage class: 13

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:	
14808-60-7 Silicon dioxide (< 1% RCS)	
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction
65997-15-1 Portland cement clinker	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust
1317-65-3 Limestone (Calcium carbonate)	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *inhalable dust; **respirable

DNELs		
7778-18-9 Calcium sulphate, various hydrates $CaSO_4$ x (0 - 2) H_2O		
Oral	Long term exposure	1.25 mg/kg bw/d (Consumer)
	Short term exposure	11.4 mg/kg bw/d (Consumer)
Inhalative	Systemic - Long term exposure	5.29 mg/m³ (Consumer) 21.17 mg/m³ (Employee)
	Systemic - Short term exposure	3,811 mg/m³ (Consumer) 5,082 mg/m³ (Employee)

PNECs	
7778-18-9 Calcium sulphate, various hydrates $CaSO_4$ x (0 - 2) H_2O	
Freshwater	mg/l (Not toxic)
Soil	mg/kg (Not toxic)
Sediments (Freshwater)	mg/kg (Not toxic)
Sewage plant	10 mg/l

Ingredients with biological limit values:
Void

Additional Occupational Exposure Limit Values for possible hazards during processing:	
Components with general dust limit	
MAK (Great Britain)	Long-term value: 4 a 10 e mg/m³
14808-60-7 Quartz (SiO_2)	
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction
14808-60-7 Silicon dioxide (fine dust)	
BOELV (EU)	Long-term value: 0.1* mg/m³ *respirable fraction

a - alveoles passing particles e - respirable particles (DIN EN 481)

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Additional information:
The lists valid during the making were used as basis.

8.2 Exposure controls

8.2.1. Information about design of technical facilities

For reduction of the dust formation, closed systems (e. g. silo with conveyor) local exhaust or other engineering controls such as plastering machines or continuous mixers with special additional equipment for dust detection should be used.

8.2.2. Individual protection measures, such as personal protective equipment

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the workplace.

Respiratory protection:

Particle filtering half mask (FFP2 according to EN 149)

Compliance with the Occupational Exposure Limits is to be ensured through effective dust-technical measures, such as local exhaust ventilation. If there is a risk of exceeding the exposure limits, e. g. the open fiddling with the powdered dry product or during processing by splash, an appropriate respirator must be used.

Hand protection:

Hand protection: Chemical resistant protective gloves according EN ISO 374

Wear waterproof, abrasion and alkali-resistant protective gloves with CE marking. leather gloves are not suitable on the basis of their water permeability and can release chromate-containing compounds.

Material of gloves:
When preparing and processing the ready-mix, no chemical-resistant gloves (Cat. III) are necessary. Studies have shown that nitrile-soaked cotton gloves (layer thickness about 0.15 mm) offer over a period of 480 min adequate protection. Change damp gloves. Keep gloves ready for change.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:
- Polychloroprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
- Nitrile rubber (material thickness ≥ 0.35 mm ; breakthrough time ≥ 480 min.)
- Butyl rubber (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
- Fluororubber (material thickness ≥ 0.4 mm ; breakthrough time ≥ 480 min.)
- Neoprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)

Not suitable are gloves made of the following materials:
- Non-liquid-tight gloves made of fabric, leather or similar materials.

Eye/face protection:

In case of dust development or splash risk use tightly fitting safety goggles according to EN 166.

Body protection:

Wear closed long-sleeved clothing and tight shoes. If contact with fresh mortar is unavoidable, the protective clothing should also be waterproof. Make sure that no fresh mortar from above gets into the shoes or boots.

Risk management measures:
An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

8.2.3. Environmental exposure controls

Do not allow product to reach water because an increase of pH may be caused. Ecotoxicological effects may occur when the pH-value is above 9. National regulations for wastewater and groundwater are to be observed.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

General Information

➥ Physical state Solid

Appearance:

➥ Form: Powder
➥ Colour: Whitish
➥ Odour: Odourless
➥ Odour threshold: Not safety relevant
➥ pH at 20 °C (68 °F) > 11
➥ Saturated aqueous solution

Change in condition

➥ Melting point/freezing point: > 1,300 °C (> 34.300 °F) (ISO 3016)
➥ Boiling point or initial boiling point and boiling range Not applicable
➥ Flammability Product is not flammable.
➥ Flash point: Not applicable
➥ Auto-ignition temperature: Not applicable
➥ Decomposition temperature: >100°C to $CaSO_4$ and H_2O
>800°C to CaO and SO_3
➥ Oxidising properties: None
➥ Explosive properties: Product does not present an explosion hazard.
➥ Ignition temperature: Product is not self igniting.

Density and/or relative density

➥ Density: Not determined
➥ Bulk density: 1,179 - 1,451 kg/m³

Particle size

➥ Particle characteristics See section 3.

Solubility

➥ Water: Slightly soluble
➥ Partition coefficient n-octanol/water (log value) Not determined
➥ Solids content: 100.0 %

9.2 Other information

Information with regard to physical hazard classes

➥ Explosives: Void
➥ Flammable gases: Void
➥ Aerosols: Void
➥ Oxidising gases: Void
➥ Gases under pressure: Void
➥ Flammable liquids: Void
➥ Flammable solids: Void
➥ Self-reactive substances and mixtures: Void
➥ Pyrophoric liquids: Void
➥ Pyrophoric solids: Void
➥ Self-heating substances and mixtures: Void
➥ Substances and mixtures, which emit flammable gases in contact with water: Void
➥ Oxidising liquids: Void
➥ Oxidising solids: Void
➥ Organic peroxides: Void
➥ Corrosive to metals: Void
➥ Desensitised explosives: Void

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Reacts alkaline with water. A proposed reaction takes place in contact with water, during which the product hardens and forms a solid mass, which does not react with the environment.

10.2 Chemical stability:

The product is stable as long as it is stored properly and dry.

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known (see 10.5).

10.4 Conditions to avoid

Prevent entry of water and moisture during storage (the mixture reacts with moisture alkaline and hardens).

10.5 Incompatible materials

Reacts exothermically with acids. The wet product is alkaline and reacts with acids, ammonium salts and base metals e.g. aluminum, zinc or brass. The reaction with base metals produces hydrogen.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

Minimum storage life:
Minimum storage life (story dry, up to 20°C): See indication on package.

Additional information:
The mixture is chromate reduced. The ready for use preparation after addition of water contains in maximum 2 mg/kg dissolvable chrom(VI) related to the dry mass. Presupposition for the chromate reduction is the appropriate storage under consideration of the maximum storage life.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The product was not investigated. The statement is derived from the properties of the single components.

Acute toxicity:
Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:		
14808-60-7 Silicon dioxide (< 1% RCS)		
Oral	LD_{50}	> 5,000 mg/kg (Rat)
Dermal	LD_{50}	> 5,000 mg/kg (Rat)
7778-18-9 Calcium sulphate, various hydrates $CaSO_4$ x (0 - 2) H_2O		
Oral	LD_{50}	> 2,000 mg/kg (Rat)
Inhalative	LC_{50} (4h)	> 5 mg/l (Rat)
65997-15-1 Portland cement clinker		
Oral	LD_{50}	> 2,000 mg/kg (Mouse) In animal studies with cement dust no acute toxicity was observed. On the basis of the available data, the classification criteria are not fulfilled.
Dermal	LD_0 (no lethality)	> 2,000 mg/kg (Rabbit) (Limit test 24h [4]) On the basis of the available data, the classification criteria are not fulfilled.
Inhalative	LD_0 (no lethality)	5 mg/m³ (Rat) (Limit test [10]) On the basis of the available data, the classification criteria are not fulfilled.
1317-65-3 Limestone (Calcium carbonate)		
Oral	LD_{50}	6,450 mg/kg (Rat) (RTECS Data)

Other information (about experimental toxicology):		
14808-60-7 Silicon dioxide (< 1% RCS)		
Irritation of skin	OECD 404 (skin)	(Rabbit) not irritant
Irritation of eyes	OECD 405 (eye)	(Rabbit) not irritant
Sensitisation	OECD 429 (LLNA)	(Mouse) not sensitizing

Primary irritant effect:

On the skin:
Cement has a skin and mucous irritant effect. Dry cement in contact with moist skin or skin in contact with moist or wet cement may lead to different irritant and inflammatory skin reactions, e. g. As redness and cracking. Prolonged contact in combination with abrasion can cause serious skin damage, see section 16 literature [4].
Causes skin irritation.

On the eye:
In the in vitro test showed Portland cement clinker varying degrees of impact on the cornea. The calculated "irritation index" is 128. Direct contact with cement may lead by mechanical reaction, irritation and inflammation to corneal damage. Direct contact with larger amounts of dry or wet cement may cause effects ranging from moderate eye irritation to serious eye damage and blindness, see Section 16 References [11] and [12].
Causes serious eye damage.

Sensitization:
May cause an allergic skin reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure (STOT SE):
Cement dust exposure may cause irritation of the respiratory system. Coughing, sneezing, and shortness of breath may be the result if exposure above the occupational exposure limit, see Section 16 References [1].
Based on available data, the classification criteria are not met.

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Specific target organ toxicity - repeated exposure (STOT RE):
Long term exposure to respirable dust in excess of occupational exposure limit may result in coughing, shortness of breath and chronic obstructive changes in the respiratory tract. At low concentrations, no chronic effects were observed, see section 16 literature [17]. Based on the available data, the classification criteria are not fulfilled.
Cement may aggravate existing skin disorders, eye and respiratory tract, e. g. with emphysema or asthma.
Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Practical experience
No further relevant information available.

General comments
See section 16 (literature and references).

Subacute to chronic toxicity:
The contact with wet cement may cause skin eczema on some individuals. This can be triggered either by the pH (irritant contact dermatitis) or by immunological reaction of water soluble chromium(VI) (allergic contact dermatitis), see section 16 literature [5] and [13].

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

The product was not investigated. The statement is derived from the properties of the single components

Aquatic toxicity:	
7778-18-9 Calcium sulphate, various hydrates $CaSO_4$ x (0 - 2) H_2O	
LC_{50} (96h)	> 1,970 mg/l (Fish - pimephales promelas)
LC_{50} (48h)	> 1,910 mg/l (Water flea - ceriodaphnia dubia)
LC_{50} (96h Marine water)	> 79 mg/l (Fish - oryzias latipes) (OECD 203) LIMIT-Test
LC_{50} (96h Freshwater)	> 79 mg/l (Algae) (OECD 201) LIMIT-Test
EC_{50}	> 790 mg/kg (Activated sludge organisms) (OECD 209)
EC_{50} (48h)	> 79 mg/l (Water flea - daphnia) (OECD 202) LIMIT-Test
EC_{50} (96h)	3,200 mg/l (Algae - navicula seminulum)
NOEC (21d)	360 mg/l (Water flea - daphnia magna)
65997-15-1 Portland cement clinker	
LC_{50}	mg/l (Water flea - daphnia magna) (low effect [6,8])
	mg/l (Algae - selenastrum coli) (low effect [7,8])
	mg/l (Sediments) (low effect [9])
1317-65-3 Limestone (Calcium carbonate)	
LC_{50} (96h)	> 100 mg/l (Fish - oncorhynchus mykiss) (OECD 203)
LC_{50} (48h)	> 100 mg/l (Water flea - daphnia magna) (OECD 202)
EC_{50}	> 14 mg/l (Algae - desmodesmus subspicatus) (OECD 201)
	> 1,000 mg/l (Activated sewage sludge) (OECD 209)

12.2 Persistence and degradability

Anorganic product, is not removable from water by biological cleaning process

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12.3 Bioaccumulative potential

Does not accumulate in organisms

12.4 Mobility in soil

Slightly soluble

12.5 Results of PBT and vPvB assessment

PBT: This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB: This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

12.7 Other adverse effects

Literature
See section 16 (literature and references).

Ecotoxical effects:
Only by increasing the pH value during application of large quantities.

Behaviour in sewage processing plants:

No further relevant information available.

Remark:
Ecotoxicological tests with Portland cement on Daphnia magna (US EPA, 1994a, see Section 16 References [6]) and Selenastrum Coli (US EPA, 1993, see section 16 literature [7]) have shown little toxicological effect. Therefore, the LC50 and EC50 values could not be determined, see section 16 literature [8]. There were also no toxic effects on sediments are found, see section 16 literature [9]. The addition of large quantities of cement in water can cause a pH increase and thus be toxic to aquatic life under special circumstances.

Additional ecological information:

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Gather dry, store in labelled containers and re-use if possible, taking into account the maximum storage time or mix residual amounts while avoiding any skin contact and exposure to dust with water. Moisture products or product slurry to harden and dispose of according to local regulatory regulations.

Risk of environmental pollution. Follow the applicable regulations on waste disposal. Keep unused products and contaminated packaging sealed. Provide containers for waste collection. Hand over for disposal to a specialist company authorised to carry out such activities. Prevent the product from being released into the environment. Do not allow the product to enter the sewage system. Must not be disposed of with municipal waste. Empty containers can be utilised for energy recovery in a waste incineration plant or, if classified accordingly, collected at a landfill site. Perfectly cleaned packaging can be recycled.

Dispose of contents/container in accordance with local/regional/national/international regulations.

European waste catalogue	
16 03 03*	Inorganic wastes containing hazardous substances
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
15 01 01	Paper and cardboard packaging
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising

16 03 03 for residual amounts of unprocessed product
17 09 04 for the water mixed and setted product
15 01 01 for the completely emptied packaging

Uncleaned packaging

Recommendation:
Disposal must be made according to official regulations.
Recycle only completely emptied packaging.

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number:

ADR, ADN, IMDG, IATA: Void

14.2. Proper Shipping Name:

ADR, ADN, IMDG, IATA: Void

14.3. Transport Hazard Class(es):

ADR, ADN, IMDG, IATA

Class: Void

14.4. Packing Group:

ADR, IMDG, IATA: Void

14.5. Environmental Hazards:

Marine pollutant: No

14.6. Special Precautions for User:

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

UN "Model Regulation": Void

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SECTION 15: REGULATORY INFORMATION

15.1 Regulations and legislation on health, safety, and environment specific to the mixture:

Poisons Act

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

Directive (EU) 2012/18

Named dangerous substances - ANNEX I :
None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII :
Additional information on Entry 78
The product does not contain synthetic polymeric microplastics >0.01% according to EC 2055/2023.

Regulation (EU) No 649/2012

Annex I - RESTRICTED EXPLOSIVES PRECURSORS
(Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients are included.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

National regulations:

Waterhazard class:
Water hazard class 1 (Self-assessment): Slightly hazardous for water

Other regulations, limitations and prohibitive regulations:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/ EC and 2000/21/EC.
- Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste
- Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

Relevant phrases:
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Advice for instructions:
Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

Classification according to Regulation (EC) No 1272/2008	
Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Literature and the data sources:
[1] Portland Cement Dust-Hazard assessment document EH75/7, UK Health and Safety Executive, 2006: http://www.hse.gov.uk/pubns/web/portlandcement.pdf.
[2] Technische Regel für Gefahrstoffe „Arbeitsplatzgrenzwerte", 2009, GMBI Nr.29 S.605.
[3] MEASE 1.02.01 Exposure assessment tool for metals and inorganic substances, EBRC Consulting GmbH für Eurometaux, 2010
[4] Observations on the effects of skin irritation caused by cement, Kietzman et al, Dermatosen, 47, 5, 184-189 (1999).
[5] Epidemiological assessment of the occurrence of allergic dermatitis in workers in the construction industry related to the content of Cr (VI) in cement, NIOH, Page 11, 2003.
[6] U.S. EPA, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 3rd ed. EPA/600/7-91/002, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1994a).
[7] U.S. EPA, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 4th ed. EPA/600/4-90/027F, Environmental Monitoring and Support Laboratory, U.S. EPA, Cincinnati, OH (1993).
[8] Environmental Impact of Construction and Repair Materials on Surface and Ground Waters. Summary of Methodology, Laboratory Results, and Model Development. NCHRP report 448, National Academy Press, Washington, D.C., 2001.
[9] Final report Sediment Phase Toxicity Test Results with Corophium volutator for Portland clinker prepared for Norcem A.S. by AnalyCen Ecotox AS, 2007.
[10] TNO report V8801/02, An acute (4-hour) inhalation toxicity study with Portland Cement Clinker GB CLP/GHS 03-2010-fine in rats, August 2010.
[11] TNO report V8815/09, Evaluation of eye irritation potential of cement clinker G in vitro using the isolated chicken eye test, April 2010.
[12] TNO report V8815/10, Evaluation of eye irritation potential of cement clinker W in vitro using the isolated chicken eye test, April 2010.
[13] European Commission's Scientific Committee on Toxicology, Ecotoxicology and the Environment (SCTEE) opinion of the risks to health from Cr (VI) in cement (European Commission, 2002): http://ec.europa.eu/health/archive/ph_risk/committees/sct/documents/out158_en.pdf.
[14] Investigation of the cytotoxic and proinflammatory effects of cement dusts in rat alveolar macrophages, Van Berlo et al, Chem. Res. Toxicol., 2009 Sept; 22(9):1548-58
[15] Cytotoxicity and genotoxicity of cement dusts in A549 human epithelial lung cells in vitro; Gminski et al, Abstract DGPT conference Mainz, 2008.
[16] Comments on a recommendation from the American Conference of governmental industrial Hygienists to change the threshold limit value for Portland cement, Patrick A. Hessel and John F. Gamble, EpiLung Consulting, June 2008.
[17] Prospective monitoring of exposure and lung function among cement workers, Interim report of the study after the data collection of Phase I-II 2006-2010, H. Notø, H. Kjuus, M. Skogstad and K.- C. Nordby, National Institute of Occupational Health, Oslo, Norway, March 2010.
[18] Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document]
[19] Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Ex-posure Limits (SCOEL) for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)2), European Commission, DG Employment, Social Affairs and Equal Opportunities, SCOEL/SUM/137 February 2008

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/ Germany)

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PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent, bioaccumulatice properties
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

The information provided in this datasheet is based on the data available to us at the date of its publication.

It is the user's responsibility to take appropriate precautionary measures and apply the recommendations described previously. The information presented in this datasheet should not be considered exhaustive.

Any use of the product not specified in the instructions on the packaging, our website, or other documents provided by our company is entirely the responsibility of the user.

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