

Supersedes date 27-Jul-2023

Revision date 09-Oct-2025

Revision Number 4

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

### 1.1. Product identifier

**Product Name** Gyproc Hard Coat 25kg  
**Unique Formula Identifier (UFI)** 76T2-KNGT-010U-AWTJ  
**Synonyms** None

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

**Recommended use** Gypsum building plaster  
**Uses advised against** No specific uses advised against are identified

### 1.3. Details of the supplier of the safety data sheet

**Supplier**  
 Saint-Gobain Construction Products (Ireland) Limited  
 Unit 4 Kilcarbery Business Park  
 Nangor Road  
 Dublin 22  
 D22 R2Y7  
 Ireland  
 Tel: +353 (0)1 629 8444

### For further information, please contact

**E-mail address** enquiries@gyproc.ie

### 1.4. Emergency telephone number

**Emergency telephone** ROI: 1800 744480  
 NI: 0845 3990159  
 (Monday - Friday, 9am - 5pm)

<b>Emergency telephone - §45 - (EC)1272/2008</b>	
<b>Europe</b>	<b>112</b>
<b>Ireland</b>	National Poisons Information Centre: +353 (0)1 809 2166 (General public)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

<b>Eye irritation</b>	Category 2 - (H319)
<b>Skin sensitisation</b>	Category 1 - (H317)

### 2.2. Label elements

Contains Cement, portland, chemicals, Flue dust, portland cement

**Signal word**

Warning

**Hazard statements**

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children.

P261 - Avoid breathing dust.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/ container in accordance with national regulations.

**2.3. Other hazards****Other hazards**

Product dust may be irritating to eyes, skin and respiratory system. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product may cause burns.

**PBT or vPvB properties**

None known.

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Calcium sulfate hemihydrate 7778-18-9	50 - 100	01-2119444918-26-XXXX	231-900-3	[C]	-	-	-	-
Slags, ferrous metal, blast furnace 65996-69-2	10 - <25	01-2119487456-25-XXXX	266-002-0	[C]	-	-	-	-
Cement, portland, chemicals 65997-15-1	1 - <2.5	-	266-043-4	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1B (H317)	-	-	-	-

				STOT SE 3 (H335)				
Flue dust, portland cement 68475-76-3	0.025 - <0.25	-	270-659-9	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335)	-	-	-	-
Zinc oxide 1314-13-2	0.025 - <0.25	01-2119463881- 32-XXXX	215-222-5 (030-013-00-7)	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	-
Quartz (SiO <sub>2</sub> ) 14808-60-7	0.025 - <0.25	-	238-878-4	[C]	-	-	-	-

*Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes*

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

**Full text of H- and EUH-phrases: see section 16**

#### **Acute Toxicity Estimate**

**If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components**

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Calcium sulfate hemihydrate 7778-18-9	> 2000	-	> 3.26	-	-
Cement, portland, chemicals 65997-15-1	-	> 2000	-	-	-
Flue dust, portland cement 68475-76-3	No data available	2000	No data available	No data available	No data available
Zinc oxide 1314-13-2	> 5000	> 2000	-	-	-

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General advice**

Get medical attention if irritation or other symptoms occur. Show this safety data sheet to the doctor in attendance.

#### **Inhalation**

Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.

#### **Eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

#### **Skin contact**

Brush off loose particles from skin. Wash skin with soap and water. Get medical attention if irritation develops and persists. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Get medical attention if symptoms occur. Do not induce vomiting without medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person.

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

**Symptoms** May cause redness and tearing of the eyes. Product dust may be irritating to eyes, skin and respiratory system. May cause sensitisation especially in sensitive humans. May cause discomfort if swallowed. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product may cause burns.

**Effects of Exposure** None known.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to doctors** Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Use extinguishing agent suitable for type of surrounding fire.

**Unsuitable extinguishing media** Full water jet.

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

**Specific hazards arising from the chemical** Plaster may form an alkaline solution when mixed with water.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulphur oxides.

#### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Keep people away from and upwind of spill/leak. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly after handling. Do not touch or walk through spilled material.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

#### **6.3. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Use personal protection recommended in Section 8. Clear up spills immediately and dispose of waste safely. Reuse or recycle wherever possible. Stay upwind. Vacuum or sweep material and place in a disposal container. Avoid generation of dust. After cleaning, flush away traces with water. Wash thoroughly after handling.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Read carefully and follow all instructions. Wear personal protective equipment. See section 8 for more information. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs. Keep container closed when not in use. Plaster may form an alkaline solution when mixed with water. Avoid contact with skin and eyes. Minimise dust generation and accumulation. Avoid breathing dust.

**General hygiene considerations** Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in a dry place. Store in a closed container. Store in accordance with local regulations. Store away from incompatible materials.

### 7.3. Specific end use(s)

**Specific use(s)** The identified uses for this product are detailed in Section 1.2.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union			
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ;			
Chemical name	Austria	Belgium	Bulgaria	Croatia
Calcium sulfate hemihydrate 7778-18-9	TWA-TMW: 5 mg/m <sup>3</sup> ; respirable fraction STEL-KZGW: 10 mg/m <sup>3</sup> (2 X 60 min); respirable fraction	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10.0 mg/m <sup>3</sup> ;	-
Cement, portland, chemicals 65997-15-1	TWA-TMW: 5 mg/m <sup>3</sup> ; inhalable fraction	TWA: 1 mg/m <sup>3</sup> ; alveolar dust	TWA: 8.0 mg/m <sup>3</sup> ; dust, inhalable fraction	TWA-GVI: 10 mg/m <sup>3</sup> ; total dust, inhalable particles TWA-GVI: 4 mg/m <sup>3</sup> ; respirable dust
Flue dust, portland cement 68475-76-3	TWA-TMW: 5 mg/m <sup>3</sup> ; dust, inhalable fraction	-	-	-

Zinc oxide 1314-13-2	TWA-TMW: 5 mg/m <sup>3</sup> ; respirable fraction, smoke	TWA: 2 mg/m <sup>3</sup> ; alveolar fraction STEL: 10 mg/m <sup>3</sup> ; alveolar fraction	TWA: 5.0 mg/m <sup>3</sup> ; STEL: 10.0 mg/m <sup>3</sup> ;	TWA-GVI: 2 mg/m <sup>3</sup> ; respirable dust STEL-KGVI: 10 mg/m <sup>3</sup> ;
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA-TMW: 0.05 mg/m <sup>3</sup> ; alveolar dust, respirable fraction C	TWA: 0.1 mg/m <sup>3</sup> ; alveolar dust TWA: 0.05 mg/m <sup>3</sup> ;	TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA-GVI: 0.1 mg/m <sup>3</sup> ; respirable dust; respirable particle
<b>Chemical name</b>	<b>Cyprus</b>	<b>Czech Republic</b>	<b>Denmark</b>	<b>Estonia</b>
Cement, portland, chemicals 65997-15-1	-	TWA: 10.0 mg/m <sup>3</sup> ; dust	-	TWA: 10 mg/m <sup>3</sup> ; total dust TWA: 5 mg/m <sup>3</sup> ; respirable dust
Zinc oxide 1314-13-2	-	TWA: 2 mg/m <sup>3</sup> ; Ceiling: 5 mg/m <sup>3</sup> ;	TWA: 4 mg/m <sup>3</sup> ; TWA: 4 mg/m <sup>3</sup> ; fume STEL: 8 mg/m <sup>3</sup> ; STEL: 8 mg/m <sup>3</sup> ; fume	TWA: 5 mg/m <sup>3</sup> ;
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust fraction	TWA: 0.1 mg/m <sup>3</sup> ; dust	TWA: 0.3 mg/m <sup>3</sup> ; total TWA: 0.1 mg/m <sup>3</sup> ; respirable STEL: 0.6 mg/m <sup>3</sup> ; total STEL: 0.2 mg/m <sup>3</sup> ; respirable	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust
<b>Chemical name</b>	<b>Finland</b>	<b>France</b>	<b>Germany TRGS</b>	<b>Germany DFG</b>
Calcium sulfate hemihydrate 7778-18-9	-	TWA-VME: 10 mg/m <sup>3</sup> ;	-	TWA-MAK: 4 mg/m <sup>3</sup> ; ; i nhalable fraction
Slags, ferrous metal, blast furnace 65996-69-2	-	-	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup> Peak: 2.4 mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	TWA: 5 mg/m <sup>3</sup> ; inhalable dust TWA: 1 mg/m <sup>3</sup> ; respirable dust	-	-	TWA-MAK: ; ;
Zinc oxide 1314-13-2	TWA: 2 mg/m <sup>3</sup> ; fume STEL: 10 mg/m <sup>3</sup> ; fume	TWA-VME: 5 mg/m <sup>3</sup> ; fume TWA-VME: 10 mg/m <sup>3</sup> ; dust	-	-
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.05 mg/m <sup>3</sup> ; respirable dust	TWA-VME (restrictif): 0. 1 mg/m <sup>3</sup> ; alveolar fraction	-	-
<b>Chemical name</b>	<b>Greece</b>	<b>Hungary</b>	<b>Italy MDLPS</b>	<b>Italy AIDII</b>
Calcium sulfate hemihydrate 7778-18-9	-	TWA-AK: 41.5 mg/m <sup>3</sup> ;	-	TWA: 10 mg/m <sup>3</sup> ; inhalable fraction
Cement, portland, chemicals 65997-15-1	-	TWA-AK: 10 mg/m <sup>3</sup> ;	-	TWA: 1 mg/m <sup>3</sup> ; respirable fraction
Zinc oxide 1314-13-2	TWA: 5 mg/m <sup>3</sup> ; fume STEL: 10 mg/m <sup>3</sup> ; fume	TWA-AK: 5 mg/m <sup>3</sup> ; fume TWA-AK: 5 mg/m <sup>3</sup> ; powder	-	TWA: 2 mg/m <sup>3</sup> ; respirable fraction STEL (REL): 10 mg/m <sup>3</sup> ; respirable fraction
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust fraction	TWA-AK: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.025 mg/m <sup>3</sup> ; respirable fraction
<b>Chemical name</b>	<b>Ireland</b>	<b>Latvia</b>	<b>Lithuania</b>	<b>Luxembourg</b>
Calcium sulfate hemihydrate 7778-18-9	TWA: 10 mg/m <sup>3</sup> ; STEL: 30 mg/m <sup>3</sup> (calculated);	TWA: 4 mg/m <sup>3</sup> ; plaster dust	-	-
Slags, ferrous metal, blast furnace 65996-69-2	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-
Cement, portland, chemicals	TWA: 1 mg/m <sup>3</sup> ;	TWA: 6 mg/m <sup>3</sup> ;	TWA-IPRD: 10 mg/m <sup>3</sup> ;	-

65997-15-1	respirable fraction STEL: 3 mg/m <sup>3</sup> (calculated); res pirable fraction		inhalable fraction TWA-IPRD: 5 mg/m <sup>3</sup> ; respirable fraction	
Zinc oxide 1314-13-2	TWA: 2 mg/m <sup>3</sup> ; fume; respirable fraction STEL: 10 mg/m <sup>3</sup> ; fume; respirable fraction	TWA: 0.5 mg/m <sup>3</sup> ;	TWA-IPRD: 5 mg/m <sup>3</sup> ;	-
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup> (Silica, crystalline, respirable dust) TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> (Silica, amorphous)	-	TWA-IPRD: 0.1 ppm; respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ;
<b>Chemical name</b>	<b>Malta</b>	<b>Netherlands</b>	<b>Norway</b>	<b>Poland</b>
Calcium sulfate hemihydrate 7778-18-9	-	-	-	TWA-NDS: 10 mg/m <sup>3</sup> ; inhalable fraction
Cement, portland, chemicals 65997-15-1	-	-	-	TWA-NDS: 6 mg/m <sup>3</sup> ; inhalable fraction TWA-NDS: 2 mg/m <sup>3</sup> ; respirable fraction
Zinc oxide 1314-13-2	-	-	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 5 mg/m <sup>3</sup> ; inhalable fraction STEL-NDSch: 10 mg/m <sup>3</sup> ; inhalable fraction
Quartz (SiO <sub>2</sub> ) 14808-60-7	-	TWA: 0.075 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.05 mg/m <sup>3</sup> ; respirable dust TWA: 0.3 mg/m <sup>3</sup> ; total dust STEL: 0.9 mg/m <sup>3</sup> (value calculated;dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); total dust STEL: 0.15 mg/m <sup>3</sup> (value calculated;dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); respirable dust	TWA-NDS: 0.1 mg/m <sup>3</sup> ; respirable fraction
<b>Chemical name</b>	<b>Portugal</b>	<b>Romania</b>	<b>Slovakia</b>	<b>Slovenia</b>
Calcium sulfate hemihydrate 7778-18-9	TWA (VLE-MP): 10 mg/m <sup>3</sup> ; inhalable fraction	-	TWA: 4 mg/m <sup>3</sup> ; inhalable fraction TWA: 1.5 mg/m <sup>3</sup> ;	TWA: 6 mg/m <sup>3</sup> ; respirable fraction
Slags, ferrous metal, blast furnace	-	-	-	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>

65996-69-2				STEL: STEL mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	TWA (VLE-MP): 1 mg/m <sup>3</sup> ; respirable fraction	TWA: 10 mg/m <sup>3</sup> ; dust, inhalable fraction	-	-
Zinc oxide 1314-13-2	TWA (VLE-MP): 2 mg/m <sup>3</sup> ; respirable fraction STEL (VLE-CD): 10 mg/m <sup>3</sup> ; respirable fraction	TWA: 5 mg/m <sup>3</sup> ; fume STEL: 10 mg/m <sup>3</sup> ; fume	TWA: 1 mg/m <sup>3</sup> ; fume Ceiling: 1 mg/m <sup>3</sup> ;	-
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA (VLE-MP): 0.025 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; dust, respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; STEL: 0.5 mg/m <sup>3</sup> ;	TWA: 0.05 mg/m <sup>3</sup> ; respirable fraction
<b>Chemical name</b>	<b>Spain</b>	<b>Sweden</b>	<b>Switzerland</b>	<b>United Kingdom</b>
Calcium sulfate hemihydrate 7778-18-9	TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;	-	TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust	TWA: 10 mg/m <sup>3</sup> TWA: 4.0 mg/m <sup>3</sup>
Slags, ferrous metal, blast furnace 65996-69-2	-	-	TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	TWA-(VLA-ED): 4 mg/m <sup>3</sup> ;	-	TWA-MAK: 5 mg/m <sup>3</sup> ; dust, inhalable dust S	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust
Zinc oxide 1314-13-2	TWA-(VLA-ED): 2 mg/m <sup>3</sup> ; respirable fraction STEL (VLA-EC): 10 mg/m <sup>3</sup> ;	TLV-NGV: 5 mg/m <sup>3</sup> ; total dust	TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust, smoke STEL-KZGW: 3 mg/m <sup>3</sup> ; respirable dust, smoke	-
Quartz (SiO <sub>2</sub> ) 14808-60-7	TWA-(VLA-ED): 0.05 mg/m <sup>3</sup> ; respirable fraction	TLV-NGV: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA-MAK: 0.15 mg/m <sup>3</sup> ; respirable dust	TWA: 0.1 mg/m <sup>3</sup> (Silica, respirable crystalline) TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> (Silica, amorphous)

**Biological occupational exposure limits****Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Calcium sulfate hemihydrate 7778-18-9	-	-	21.17 mg/m <sup>3</sup> [4] [6] 5082 mg/m <sup>3</sup> [4] [7]
Flue dust, portland cement 68475-76-3	-	-	0.84 mg/m <sup>3</sup> [5] [6] 4 mg/m <sup>3</sup> [5] [7]

**Notes**

- [4] Systemic health effects.  
[6] Long term.  
[7] Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
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Chemical name	Oral	Dermal	Inhalation
Calcium sulfate hemihydrate 7778-18-9	1.52 mg/kg bw/day [4] [6] 11.4 mg/kg bw/day [4] [7]	-	5.29 mg/m <sup>3</sup> [4] [6] 3811 mg/m <sup>3</sup> [4] [7]
Flue dust, portland cement 68475-76-3	-	-	0.84 mg/m <sup>3</sup> [5] [6]

**Notes**

[4]	Systemic health effects.
[6]	Long term.
[7]	Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Slags, ferrous metal, blast furnace 65996-69-2	5 g/L	5 g/L	0.5 g/L	-	-
Flue dust, portland cement 68475-76-3	282 µg/L	282 µg/L	28 µg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Calcium sulfate hemihydrate 7778-18-9	-	-	100 mg/L	-	-
Slags, ferrous metal, blast furnace 65996-69-2	-	-	10 g/L	1000 mg/kg soil dw	-
Flue dust, portland cement 68475-76-3	875 µg/kg sediment dw	88 µg/kg sediment dw	6 mg/L	5 mg/kg soil dw	-

**8.2. Exposure controls****Engineering controls**

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Provide extract ventilation at the points where emissions occur. Ensure the ventilation system is regularly maintained and tested.

**Personal protective equipment****Eye/face protection**

If there is a risk of contact: Tight sealing safety goggles. Eye protection must conform to standard EN 166.

**Hand protection**

Wear suitable gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. In case of insufficient ventilation, wear suitable respiratory equipment. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405.

**Environmental exposure controls** Avoid creating dust. Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Property	Values	Remarks • Method
<b>Appearance</b>		
<b>Physical state</b>	Solid	
<b>Colour</b>	Grey/pink	
<b>Odour</b>	Odourless	
<b>Odour threshold</b>	No information available	
<b>Melting point / freezing point</b>		No data available
<b>Boiling point or initial boiling point and boiling range</b>		No data available
<b>Flammability</b>		No data available
<b>Lower and upper explosion limit/flammability limit</b>		
<b>Lower explosion limit</b>		No data available
<b>Upper explosion limit</b>		No data available
<b>Flash point</b>		No data available
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>SADT (°C)</b>		No data available
<b>pH</b>		No data available
<b>pH (as aqueous solution)</b>		No data available
<b>Kinematic viscosity</b>		No data available
<b>Dynamic viscosity</b>		No data available
<b>Water solubility</b>	Slightly soluble	No data available
<b>Solubility</b>		No data available
<b>Partition coefficient n-octanol/water (log value)</b>		No data available
<b>Vapour pressure</b>		No data available
<b>Density and/or relative density</b>		No data available
<b>Bulk density</b>		No data available
<b>Liquid Density</b>		No data available
<b>Relative vapour density</b>		No data available
<b>Particle characteristics</b>		
<b>Particle Size</b>		No data available
<b>Particle Size Distribution</b>		No data available

### 9.2. Other information

<b>Molecular weight</b>	No information available
<b>VOC content</b>	No information available
<b>Softening point</b>	No information available

#### 9.2.1. Information with regards to physical hazard classes

<b>Explosives</b>	
Explosive properties	No information available
<b>Oxidising properties</b>	No information available

#### 9.2.2. Other safety characteristics

No information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** None under normal use conditions.

### **10.2. Chemical stability**

**Stability** Stable under normal conditions.

### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### **10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

### **10.4. Conditions to avoid**

**Conditions to avoid** Dust formation.

### **10.5. Incompatible materials**

**Incompatible materials** Acids.

### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** None under normal use conditions.

## **SECTION 11: Toxicological information**

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

#### **Information on likely routes of exposure**

#### **Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product may cause burns.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause sensitisation by skin contact. Prolonged contact may cause redness and irritation. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product may cause burns.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes. Product dust may be irritating to eyes, skin and respiratory system. May cause sensitisation especially in sensitive humans. May cause discomfort if swallowed. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product

may cause burns.

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

**Numerical measures of toxicity** No information available.

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium sulfate hemihydrate	> 2000 mg/kg ( Rat )	-	> 3.26 mg/l
Slags, ferrous metal, blast furnace	-	-	> 5235 mg/m <sup>3</sup> ( Rat ) 4 h
Cement, portland, chemicals	-	> 2000 mg/kg ( Rabbit )	-
Flue dust, portland cement	-	>= 2000 mg/kg ( Rat )	> 6.04 mg/L ( Rat ) 4 h
Zinc oxide	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 5700 mg/m <sup>3</sup> ( Rat ) 4 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients.

Component Information					
Calcium sulfate hemihydrate (7778-18-9)					
Exposure route	Effective dose	Method	Species	Exposure time	Results
Dermal	0.5 g	OECD Test No. 404: Acute Dermal Irritation/Corrosion		4 hours	non-irritant

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

Component Information					
Calcium sulfate hemihydrate (7778-18-9)					
Effective dose	Method	Species	Exposure route	Exposure time	Results
0.1 g	OECD Test No. 405: Acute Eye Irritation/Corrosion		Eye		non-irritant

Cement, portland, chemicals (65997-15-1)
--

**Respiratory or skin sensitisation** May cause sensitisation by skin contact.

**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.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not applicable.

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

**Endocrine disruption for human health** This product does not contain any known or suspected endocrine disruptors.

**11.2.2. Other information**

**Other adverse effects** None known based on information supplied.

**SECTION 12: Ecological information**

**12.1. Toxicity** Based on available data, the classification criteria are not met. Not considered to be harmful to aquatic life.

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Calcium sulfate hemihydrate	LC50: =2980mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: >1970mg/L (96h, <i>Pimephales promelas</i> )	-	-	-
Zinc oxide	LC50: =0.169mg/L (96h, <i>Oncorhynchus mykiss</i> )	EC50: =0.413mg/L (48h, <i>Ceriodaphnia dubia</i> )	-	-

**12.2. Persistence and degradability** No information available.

Calcium sulfate hemihydrate (7778-18-9)

Exposure time	Method	Value	Results
-			

**12.3. Bioaccumulative potential** No information available.

**12.4. Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

Chemical name	PBT and vPvB assessment
Calcium sulfate hemihydrate	Not PBT/vPvB
Slags, ferrous metal, blast furnace	PBT assessment does not apply
Cement, portland, chemicals	Not PBT/vPvB
Flue dust, portland cement	PBT assessment does not apply
Zinc oxide	Not PBT/vPvB

**12.6. Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

**12.7. Other adverse effects** None known based on information supplied.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Recover or recycle if possible. This material and its container must be disposed of in a safe way. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>Waste codes / waste designations according to EWC / AVV</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information**

<b>IATA</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>IMDG</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available
<b>RID</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>ADR</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None
<b>ADN</b>	Not regulated
<b>14.1 UN number or ID number</b>	Not regulated
<b>14.2 UN proper shipping name</b>	Not regulated
<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not applicable
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Cement, portland, chemicals 65997-15-1	RG 8, RG 10
Quartz (SiO <sub>2</sub> ) 14808-60-7	RG 25

**Chemical Prohibition Ordinance (ChemVerbotsV)**

Not applicable.

**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Number	Class
Quartz (SiO <sub>2</sub> ) 14808-60-7	5.2.7.1.1	-

**TRGS 905**

Not applicable

**Netherlands****Carcinogenic, mutagenic and reproductive toxic effects**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Quartz (SiO <sub>2</sub> ) 14808-60-7	Present	-	-

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Not applicable**Storage of Hazardous Material** Not applicable**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Not applicable**Major Accidents Ordinance SR 814.012** Not applicable**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Zinc oxide 1314-13-2	75	-

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 2024/590**

Not applicable.

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Quartz (SiO <sub>2</sub> ) 14808-60-7	Plant protection agent

**Explosives Precursors Marketing and Use (2019/1148)**

Not applicable.

**International Inventories**

Contact supplier for inventory compliance status

**15.2. Chemical safety assessment****Chemical Safety Report** Not applicable.**SECTION 16: Other information****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection and 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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust, fume, gas, mist, vapors and spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P321 - Specific treatment (see supplemental first aid instructions on this label)

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet***List may include phrases which are not applicable to this product*

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure

BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAK	Maximum Concentration at the Workplace
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labour and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)

TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
C	Carcinogen
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 U.S. Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications

International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program

International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

United Nations World Health Organization (WHO)

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**This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006**

#### **Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**