

INFORMATION DATA SHEET FOR THE SUBSTANCE: CALCIUM SULFATE  
CALCIUM SULFATE DIHYDRATE

in accordance with Article 32 of the REACH Regulation

TRADE NAME	DATE	UPDATE	NO. OF PAGES
GYPSUM	19.07.2019		

1. IDENTIFICATION OF SUBSTANCE / MIXTURE / COMPANY

1.1. Identification of substance

EC Number	231-900-3
EC Name	Calcium sulfate
CAS number	7778-18-9

REACH registration number **01-211944918-26-0214**

Synonyms:

- Synthetic gypsum
- Calcium sulfate dihydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ )
- Gypsum

Trade names:

- Gypsum
- Synthetic gypsum
- Gypsum from flue gas desulphurization
- Calcium sulfate dihydrate

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

Relevant identified use:

- mineral raw material for related use (cement, masonry mortars, glues, other binders);
- mineral raw material for not related use (drywalls, fittings, plasters);
- industrial use in the related mixtures (cement, masonry mortars, drywalls, stucco, glues, plasters and other bindings);
- industrial use as a filler in paints, plastic, rubber and resins;
- professional use as a filler in paints, plastic, rubber and resins;
- professional use as a material in dentistry and surgery;
- for individual use as building material, sculptural and modeling material;
- for minor repairs and maintenance works in related use as building material;
- in agriculture as a component of mineral fertilizers.

Use advised against: not determined

1.3. Details on the supplier of the safety data sheet

[manufacturer, supplier, user, distributor]

[For manufacturers: Information in accordance with data provided for registration]

Manufacturer/supplier: PGE Górnictwo i Energetyka Konncjonalna S.A. Oddział Elektrownia Turów

Correspondence address:  
Ul. Młodych Energetyków 12

59-916 Bogatynia  
Tel.: +48 75 773 49 00  
Fax: +48 75 773 40 02

Note: Gypsum registered as a Calcium Sulfate (231-900-3) do not have dangerous properties. In order to avoid misunderstanding the Safety Data Sheet is not prepared. Information provided in this Information Data Sheet are according to the layout and scope of Appendix II to REACH Regulation (EC No. 1907/2006 and amendment 453/2010) on preparation of SDS.

Responsible person: Jan Wyszynski	Tel.: 0-75 77 3 4580 Fax: 0-75 77 3 4582 Email: Jan.Wyszynski@gkpge.pl
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#### 1.4. Emergency telephone number

(office hours): 7:00 – 15:00  
Emergency phone number: 0-75 77 3 4580

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

The substance is not classified as hazardous according to the EC Directive 67/548/EEC and the Regulation (EC) 1272/2008

#### 2.2. Label elements

According to the EC Directive 67/548/EEC and the Regulation (EC) 1272/2008 the substance does not require labeling.

#### 2.3. Other hazards

No specific, identified hazards, the substance is not dangerous but due to its physical form – dust, it can cause mechanical irritation.

### 3. Composition / information on ingredients

#### 3.1. Substances

EC Number	231-900-3
EC Name	Calcium sulfate
CAS number	7778-18-9

#### Additional information

Chemical formula	Content
CaSO <sub>4</sub> • 2H <sub>2</sub> O	> 95%

### 4. First aid measures

#### 4.1. Description of first aid measures

After inhalation:	No special measures are required.
After swallowing:	Seek immediate medical service if the victim feels unwell.
After skin contact:	Wash with water (consult a doctor if irritation persists)
After eye contact:	Rinse opened eye under running water. When using contact lenses, rinse after removing the lenses. If irritation occurs, consult an ophthalmologist.
Information for doctor:	No allergic reactions are known, neutral salt, soluble dust.

Self-protection of the aid provider:	Not applicable.
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4.2. Most important symptoms and effects, both acute and delayed

<ul style="list-style-type: none"> <li>- Inhalation</li> <li>- Swallowing</li> <li>- Skin contact</li> <li>- Eye contact</li> </ul>	<p>Mechanical irritation may occur. No identified acute and delayed symptoms.</p>
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4.3. Indication of any immediate medical attention and special treatment needed

No indication
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5. Fire-fighting measures

5.1. Extinguishing media

<ul style="list-style-type: none"> <li>- The substance is not flammable. In temperatures above 1000°C it may release sulfur oxides.</li> <li>- Use any relevant measures to extinguish the fire.</li> </ul>
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5.2. Special hazards arising from the substance or mixture

Not applicable
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5.3. Advice for firefighters

No specific recommendations apply
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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust into the air if possible.
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6.2. Environmental precautions, methods and materials for containment and cleaning up.

<p>Clean up the contaminated area. Collect dry, avoid raising dust, hand over for disposal. The product may create unstable layers mixed with water. S22 – Do not breathe dust S24/S25 – Avoid contact with skin/eyes S39 – Wear eye/face protection</p>
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7. Handling and storage

7.1. Precautions for safe handling

<p>Provide effective air exchange at a workplace. Avoid the contact with eyes and avoid material getting into the respiratory tract. Act according to the safety rules concerning chemical substances. No particular measures with proper use.</p>
<ul style="list-style-type: none"> <li>- do not consume food and liquids, do not smoke in work areas,</li> <li>- wear appropriate protective clothes,</li> <li>- avoid prolonged skin contact,</li> <li>- wash hands after work.</li> </ul>

7.2. Conditions for safe storage, including any incompatibilities

No specific requirements concerning the storage rooms and tanks. Protect against excessive dusting and uncontrolled leakage of effluent into the sewage system and groundwater.
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7.3. Specific end use(s)

No special applications
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8. Exposure controls / personal protection

Use appropriate exhaust ventilation, local and general, ensuring concentration of the substance in the air below permissible limit. According to the Regulation of the Minister of the Family, Labor and Social Policy of 12 June 2018 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Journal of Laws 2014, item 817). Protection of respiratory tracts when working with moist gypsum is not necessary. Use protective goggles and face masks in the places exposed to dry dust. Protection of hands and body is not necessary.

## 9. Physical and chemical properties

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

#### Physical properties:

Physical state at 20°C and atmospheric pressure 1013 hPa	Calcium sulfate is described as white, odorless crystals.
Melting / freezing point	Melting point of CaSO <sub>4</sub> is between 1450 and 1570°C Thermal decomposition for CaSO <sub>4</sub> • ½ H <sub>2</sub> O + H <sub>2</sub> O about 140°C; Thermal decomposition for CaSO <sub>4</sub> + H <sub>2</sub> O about 700°C Thermal decomposition for CaO + SO <sub>3</sub> about 1000°C
Relative density	About 2.9 at 20°C
Solubility in water	Established as 2.4 g/l at 20°C and pH = 7
Granulometry	For hydrated CaSO <sub>4</sub> the size of particles D50 (in µm) > 35

#### Chemical properties:

All parameters provided in the Appendix II to REACH Regulation were assessed as not applicable.

### 9.2. Other information

Not applicable

## 10. Stability and reactivity

### 10.1. Reactivity

No hazards in terms of reactivity.

### 10.2. Chemical stability

- stable under normal conditions,
- releases crystalline water during heating, and sulfur oxides at about 1000°C

### 10.3. Possibility of hazardous reactions

Not applicable. Hazardous reactions are not to be expected.

### 10.4. Conditions to avoid

No special requirements

### 10.5. Incompatible materials

No materials are known to be excluded from the contact with the substance.

### 10.6. Hazardous decomposition products

Sulfur oxides created in the temperature above 1000°C are poisonous.

## 11. Toxicological information

No harmful effects on people are known. The limestones are natural components of water and food products.

Acute toxicity / specific impact on experimental animals: no quantitative data / no data on sensitizing, carcinogenic, mutagenic effects.

Irritation / corrosion effects: not irritating when swallowed, skin contact, absorption into the respiratory tract or eye contact. The dust may mechanically irritate the throat and respiratory tract, may cause cough. Frequent inhalation of dust promotes the development of respiratory diseases. The dust may mechanically irritate eyes.

## 12. Ecological information

12.1. Toxicity	<ul style="list-style-type: none"><li>- The substance is not classified as hazardous</li><li>- No toxicity for aquatic environment</li><li>- No toxicity in waste water plant</li></ul>
12.2. Persistence and degradability	<ul style="list-style-type: none"><li>- Not applicable, inorganic substance</li><li>- No photo-degradation, chemical degradation or biodegradation is expected.</li></ul>
12.3. Bioaccumulative potential	<ul style="list-style-type: none"><li>- Not applicable, inorganic substance</li><li>- No significant bioaccumulation is expected.</li></ul>
12.4. Mobility in soil	<ul style="list-style-type: none"><li>- Moderate mobile in soil</li><li>- Possible absorption through soil particles.</li></ul>
12.5. Results of PBT and vPvB assessment	<ul style="list-style-type: none"><li>- No properties of PBT and vPvB</li></ul>
12.6. Other adverse effects	<ul style="list-style-type: none"><li>- Other adverse effects to environment are not known.</li></ul> <p>According to CLP Regulation the substance does not have to be labeled as hazardous to environment. Long-term environmental destruction is fairly possible based on the existing data on removal, degradation and bioaccumulation potential.</p>

## 13. Disposal considerations

### 13.1. Waste treatment methods

No additional specific methods for removing waste from the substance are needed. The substance in unpolluted and unprocessed form it is not subject to classification as hazardous waste, and can be used according to its original purpose. Appropriate regulations concerning the waste management should be observed (hand over for utilization (recycling) to the entities with appropriate permission for waste with the code 10 01 05).

After processing into construction materials "gypsum based construction materials" or other, depending on the use of substance according to waste catalogue (Regulation of the Minister of Environment of 9 December 2014 on waste catalogue, Journal of Laws 2014.1923).

## 14. Transport information

The material is not hazardous in terms of transport regulations. Due to the fineness the protections against dusting must be used.

## 15. Regulatory information

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

## European Union:

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.

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

## Poland:

Act on waste of 14 December 2012 (Journal of Laws 2019.701 2001 as amended).

Act on chemical substances and their mixtures of 25 February 2011 (Journal of Laws 2019.1225).

Regulation of the Minister of the Family, Labor and Social Policy of 12 June 2018 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Journal of Laws 2014, item 817).

Regulation Of The Minister Of Labour And Social Policy Of 26 September 1997 On General Provisions Of Occupational Safety And Health (Journal of Laws 2003.169.1650 as amended).

### 15.2. Chemical safety assessment

Chemical safety assessment has been done. The substance Gypsum does not fulfill the criteria to be classified as hazardous, according to the Regulation (EC) No. 1272/2008.
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### 16. Other information

Information included in this Information Data Sheet of a substance describe the safety requirements for the substance and are based on the current knowledge. The intention of these information is to provide tips concerning safe handling with the substance covered by this sheet, its storage, transport and disposal. These information can not be transferred to other products / substances. In case of mixing or processing this substance with other substances the information included in this information Data Sheet may not be valid for newly created material.
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