



Substance Information Sheet (SIS) for Calcium Sulfate		
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1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

EC no. 231-900-3	Calcium Sulfate
CAS no. 7778-18-9	Calcium Sulfate
REACH registration no.:	01-2119444918-26-xxxx
Synonyms:	Desulphogypsum, FGD Gypsum, Synthetic Gypsum
Trade name:	FGD Gypsum

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

Relevant identified uses:	Raw and building material, binding agents, fertiliser, filler, additive, pH-regulating agent, setting regulator, colouring agent
Use advised against:	None

Note

Calcium sulfate (FGD Gypsum) does not possess hazardous properties. To avoid confusion no Safety Data Sheet (SDS) is prepared.

The information given by this Substance Information Sheet (SIS) follows by structure and content Annex II of REACH-regulation (EC No 1907 /2006 and amendment 453/2010) regarding the preparation of a SDS.

Special Information e.g. PNECs (predicted no-effect level) and DNELs (derived no-effect level) left out in the SIS is available in the Chemical Safety Report (CSR).

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1.3 Details of the supplier of the substance information sheet

Producer / Supplier:	BauMineral GmbH
Street / P.O. Box:	Hiberniastraße 12 / Postfach 11 63
National code / postcode, place:	D- 45699 Herten
Phone:	+49 (0)2366 509 0
Fax:	+49 (0)2366 509 285
Email see:	baumineral@baumineral.de

1.4 Emergency telephone number

Office hours	Emergency number
Mo. - Th.: 07:30 - 16:00	Telephone: +49 (0)2366 509 211
Fr.: 07:30 - 15:00	Mobil: +49 (0)170 575 10 57

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to criteria of Directive EC 67/548/EEC and Regulation (EC) 1272/2008 the substance is not classified as hazardous.

2.2 Label elements

According to criteria of Directive EC 67/548/EEC and Regulation (EC) 1272/2008 the substance does not need to be labeled.

2.3 Other hazards

No special remarkable hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC no:	231-900-3
CAS no:	7778-18-9
Substance name:	Calcium Sulfate CaSO ₄ x n H ₂ O (n = 2)
Purity:	> 95 % (FGD Gypsum, mono-constituent Substance)
Synonyms:	see 1.1

Additional information

None

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3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:	no particular measures required.
Ingestion:	drink plenty of water (in case you feel unwell consult doctor).
Skin contact:	dust has to be rinsed with water (if irritation persists contact doctor).
Eye contact:	dust has to be rinsed with water (if irritation persists contact doctor).
Notes for the doctor:	no allergic reactions known, soluble dust

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms or effects have been reported

4.3 Indication of any immediate medical attention and special treatment needed

Not appropriate

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

The substance is not combustible. Use any means suitable for extinguishing surrounding fire.

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for fire fighters

Not appropriate

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid creating airborne dust wherever possible; (note: danger of slipping by leaking/spilling product); see 6.4

6.2 Environmental precautions

Avoid creating airborne dust wherever possible; no special environmental measures are necessary; see 6.4

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6.3 Methods and material for containment and cleaning up

Spills: Sweep together and containerize for reclamation or disposal; Dry vacuum or wet cleaning with mechanical devices may be used to avoid dust dispersal.

6.4 Reference to other sections

None

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid creating airborne dust wherever possible

Do not eat, drink and smoke in work areas

Wash hands after use

Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

No special requirements

7.3 Specific end use(s)

Not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The current occupational exposure limits for respirable dust in the European Union: (3-10 mg/m³) should apply

8.2 Exposure controls

Appropriate engineering controls

For closed cycles: care for dedusting installations

For semi-closed and open cycles: care for sufficient ventilation or wetting of the substance

Individual protection measures

Eye / face protection: safety goggles / face shield if potential for contact is existing

Skin (hand) protection: gloves if potential for contact is given; further measures for body protection are usually not necessary

Respiratory protection: no special protective equipment required; if dust occurs constantly – use respiratory dust mask

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9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Parameter	Value / Comment	Unit	Method
Physical			
Physical state	solid, crystalline powder, granulate	-	visual
Colour	Colour varies white, beige, light yellow, grey or reddish tinge or brick red.	-	visual
Odour	neutral	-	-
Melting point/freezing point:	1450	°C	-
Density	2.3 – 3.0	g/cm ³	-
Chemical			
pH	in delivery state: not applicable in aqueous solution: about pH 7	-	(20 °C)
Water solubility (20 °C)	about 2	g/l	-
Decomposition Temperature): into CaSO ₄ x ½ H ₂ O and H ₂ O	about 140	°C	-
into CaSO ₄ and H ₂ O	about 700	°C	-
into CaO and SO ₃	about 1000	°C	-

All other parameters as given in Annex 2 of REACH-regulation are evaluated as not applicable.

9.2 Other information

Not applicable

10 STABILITY AND REACTIVITY**10.1 Reactivity**

No reactivity hazards

10.2 Chemical stability

Stable under normal conditions

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10.3 Possibility of hazardous reactions

Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide.

10.4 Conditions to avoid

Avoid contamination by sulfur-reducing bacteria and water under anaerobic conditions

10.5 incompatible materials

No incompatible materials known

10.6 hazardous decomposition products

- Decomposition takes place from temperatures above 1450 °C
- Decomposition under formation of sulfur trioxide and calcium oxide

11 TOXICOLOGICAL INFORMATION

11.1 Potential health effects	The substance is not classified as hazardous.
11.2 Acute toxicity: oral, inhalation, dermal	No acute toxicity
11.3 Irritation: Skin, eye irritation	Not irritating
11.4 Corrosivity	Not corrosive
11.5 Sensitisation	Not sensitising
11.6 Repeated dose toxicity	No repeated toxicity
11.7 Mutagenicity	Not mutagen
11.8 Carcinogenicity	No carcinogenetic effects are known
11.9 Toxicity to reproduction	No reproduction toxicity

For more detailed information to toxicological aspects see Chemical Safety Report (CSR)

12 ECOLOGICAL INFORMATION

12.1 Toxicity	<ul style="list-style-type: none">- The substance is not classified as hazardous- No aquatic toxicity- No toxicity in sewage treatment plants
12.2 Persistence and degradability	<ul style="list-style-type: none">- Not applicable: inorganic substance- Neither photo- or chemical degradation, nor biodegradation is expected
12.3 Bioaccumulative potential	<ul style="list-style-type: none">- Not applicable: inorganic substance- Significant bioaccumulation is not expected

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12.4 Mobility in soil	<ul style="list-style-type: none">- Water-soluble solid- Natural constituent in soils- If product enters soil, it will be mobile and may contaminate groundwater
12.5 Results of PBT and vPvB assessment	<ul style="list-style-type: none">- No PBT and vPvB properties
12.6 Other adverse effects	<ul style="list-style-type: none">- No other adverse effects are known- Due to the CLP system the substance has not to be labelled as dangerous for the environment.- On the basis of existing data about the elimination, degradation and bioaccumulation potential longer term damage to the environment is unlikely.

For more detailed information see Chemical Safety Report (CSR).

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Calcium sulfate has to be disposed off by national regulations for non hazardous wastes; no further special treatment methods are necessary.

Waste codes / waste designation according to EWC:

10 WASTES FROM THERMAL PROCESSES

10 01 Wastes from power stations and other combustion plants (except 19)

10 01 05 Calcium-based reaction wastes from flue-gas desulphurisation in solid form

The allocation of waste identity numbers / waste descriptions must be carried out according to the EEC, specific to the industry and process.

The waste is to be kept separate from other types of waste until its recycling.

Packaging: Non-contaminated packages may be recycled.

Additional information:

- Product:
Product can be further used without restrictions if not subsequently contaminated.
- Waste:
Recovery / recycling in installations with permit for the waste codes given above.
- Waste disposal on disposal classes for non-inert waste according to 2003/33/EC.

14 TRANSPORT INFORMATION

Not a dangerous good according to the regulations ADR (agreement concerning the international carriage of dangerous goods by road), IMDG (transport of dangerous goods by waterways - International Maritime Dangerous Goods) and IATA (transport of dangerous goods by air).

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15 REGULATORY INFORMATION

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

Calcium sulfate does not require any labeling.

15.2 Chemical safety assessment

Calcium sulfate does not require any labeling.

16 OTHER INFORMATION

The Information in this safety data sheet describes the safety requirements of the product and is based on the present knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.