

Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

Print date: 06.12.2022

Revision date: 13.07.2022

Version 1

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1. Identification of the substance or preparation

1.1 Product identifier:

Firm name:

Substance name: Calciumsulfat
CAS-Nr.: 7778-18-9
EG-Nr.: 231-900-3
REACH registration NO.: 01-2119444918-26-xxxx

1.2 Use of the substance/preparation:

1.2.1. Relevant identified uses

Gypsum binder for direct use or further processing

Filler, intermediate, process aid, adsorption and absorption agent for gases or liquids Filler, intermediate, carrier material

1.2.2. Uses advised against

No additional information available

1.3 Company identification:

1.4 Emergency telephone:

No additional information available

2. Hazards Identification

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272 (CLP):

The substance is not classified as hazardous according to CLP Regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]: Void

Hazard pictograms: Void

Signal word: Void

2.3 Other hazards

No particular dangers to mention.

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3. Composition/ Information on ingredients

3.1 Chemical characterization:

Additional information

Name:	Calcium sulphate
Formula:	$\text{CaSO}_4 \times n \text{ H}_2\text{O}$ (n= 0, 1/2, 2)
CAS:	7778-18-9
EINECS:	231-900-3
Reg.-Nr.:	01-2119444918-26 - xxxx
Synonyms:	Alabaster, anhydrite, bassanite, gypsum
Stabilizer:	None
Hazardous impurities:	None
Additional information:	None

4. First aid measures

4.1 Description of first aid measures

General notes:

No adverse effects are expected during normal use of the substance.

After inhalation

Provide fresh air. If necessary seek medical advice.

After contact with the skin

Wash with plenty of water and soap. Clean contaminated clothing and shoes before use. If necessary seek medical advice.

After contact with the eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No known other specific symptoms or effects to date.

4.3 Indication of any immediate medical attention and special treatment

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None

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5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.

Product forms slippery surface when combined with water.

6.2 Environmental precautions

Do not allow to enter sewers / surface or ground water.

6.3 Methods and materials for retention and cleaning

6.3.1 Prevention of spread

All containers suitable for solids can be used.

6.3.2 Purification process

Pick up mechanically, dry and place in suitable containers for disposal.

6.3.3 More information

None.

6.4 Reference to other sections

No additional information available

7. Handling and storage

7.1 Precautions for safe handling

7.1.1 Recommendations for protective measures

No special provisions if the product is used appropriately.

Avoid:

Dust dispersion

Inhalation of dust/particles

Avoid contact with eyes and skin

Measures to prevent fire:

Product itself does not burn.

No special fire protection measures are necessary.

Environmental protection measures

No special environmental protection measures are necessary.

7.1.2 Advice on general occupational hygiene:

Do not to 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

Technical measures and storage conditions: For safekeeping leave in original packaging.

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Conditions for storage rooms and vessels:

No special requirements.

Storage instructions:

No relevant information available.

7.3 Specific end use(s)

No additional information available

8. Exposure controls and personal protection

8.1 Control parameters

8.1.1 Ingredients with limit values that require monitoring at the workplace

CAS-Nr.: 7778-18-9 Calciumsulfat (50 – 100 %)

AGW 6 mg/m³ A, DFG

8.1.2 Monitoring procedures

Local ventilation for indoor use.

8.1.3 Release of dangerous substances into the air

None

8.1.4 Risk management measures for certain uses

None

8.2 Limitation and monitoring of exposure

General protective and hygienic measures

Avoid contact with the eyes and skin.

Do not inhale dust/ smoke.

Wash hands after use.

Personal protective equipment

Respiratory protection:

Required when dusts are generated Filter FFP2

Hand protection:

By long-term hand contact wear protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves: Cotton gloves impregnated with nitrile.

Penetration time of glove material:

The exact breakthrough time is only available from glove producers.

Eye protection: In case of product splashes use protective glasses.

Body protection: Protective work clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: powder

Colour: white, white-grey

Odour: odourless

Odour threshold: not applicable

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pH-value	Solubility in water: 7
Melting point / freezing point:	not applicable.
Initial boiling point and boiling range:	not applicable.
Flash point:	not applicable.
Evaporation rate:	not applicable.
Flammability (solid, gas):	not flammable.
Vapour pressure:	not applicable.
Vapour density:	not applicable.
relative density	2,3 - 3,0 g/cm ³
Water solubility	ca. 8,8 g/l at 20°C

9.2 More information

Thermal decomposition of gypsum:

$\text{CaSO}_4 \times 1/2 \text{H}_2\text{O}$ and H_2O ca. 140°C

CaO and SO_3 ca. 1000°C

10. Stability and reactivity

10.1 Reactivity

No materials known.

10.2 Chemical stability

The mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

No incompatible materials known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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11. Toxicological Information

11.1 Information on toxicological effects

Relevant hazard class	Effect dose	Species	Method	Remark
Acute oral toxicity	LD50 > 1581 mg/kg bw	Rat.	OECD 420	
Acute dermal toxicity	n/a			No dermal toxicity envisaged due to low potential for absorption
Acute inhalative toxicity	LC50 > 2.61 mg/L	Rat	OECD 403	Maximum attainable dose
Reproductive toxicity	NOAEL 790 mg/kg bw	Rat	OECD 422	No signs of reproductive toxicity observed

Skin corrosion/irritation: not applicable

Serious eye damage/irritation: not applicable

Respiratory or skin sensitization: not applicable

Germ cell mutagenicity: not applicable

Carcinogenicity: not applicable

STOT for single exposure: not applicable

STOT on repeated exposure: not applicable

Aspiration hazard: not applicable

Information on the likely routes of exposure

Inhalation of dust.

12. Ecological Information

12.1 Toxicity

Aquatic Toxicity	Effect dose	Exposure period	Species	Method	Assessment	Remark
Acute fish toxicity	LC50 >79mg/L	96 h	Japanese rice fish	OECD 203	Harmless to the tested concentration.	LIMIT-Test
Acute daphnia toxicity	EC50 >79 mg/L	48 h	Daphnia magna	OECD 202	Harmless to the tested concentration	LIMIT-Test
Acute alga toxicity	E50 > 79 mg/L	72 h	Selenastrum capricornutum	OECD 201	Harmless to the tested concentration	LIMIT-Test
Toxicity opposite to sewage treatment plants microorganisms	EC 50 >790 mg/L	3 h	Belebtschlam m	OECD 209	Harmless for microorganism	

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No toxicities observed after neutralization.

The substance can hydrolyze to calcium and sulfate ions.

The listed effects can partly be attributed to decomposition products.

The environmental data were measured on the hydrolyzed product.

12.2 Persistence and degradability

Abiotic degradation, physical and photochemical degradation

The product rapidly hydrolyzes calcium and sulfate ions in the presence of water.

The individual components are difficult to eliminate from the water.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

Water-soluble solid calcium sulfate.

Calcium sulfate is a natural component in soils.

In case of penetration into the ground the product is mobile and can contaminate the ground water.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

13. DISPOSAL CONSIDERATIONS

13.1 Product:

EAK/AVV waste code:

17 08 02 Building material made of gypsum, with the exception of those falling under 17 08 01

17 09 04 Mixed construction and demolition waste with the exception of those falling under

17 09 01, 17 09 02 and 17 09 03

13.2 Packaging:

Non-contaminated, completely emptied packages may be recycled.

14. Transport information

No dangerous good in the sense of these transport regulations.

14.1 UN number:

None.

14.2 UN proper shipping name:

Not applicable.

14.3 Transport hazard class:

Not applicable.

14.4 Packing group:

Not applicable.

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14.5 Environmental hazards: None.

14.6 Special precautions for user: None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. Regulatory information

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

Guideline 2012/18/EU

National legislation:

Germany Water hazard class (WGK): slightly hazardous to water (WGK 1)

Chemical Safety Assessment:

The chemical safety assessments on the substances calcium sulfate has been considered for this data sheet.

16. Other Information

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Further information

Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship.