

Substance information sheet



according to Regulation (EC) No 1907/2006 (REACH) Article 32
(non-hazardous substances)

Product: Natural gypsum/natural anhydrite

Version: 2.0

Replaces all previous versions - effective from 27.06.2024

Print date: 27.06.2024

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

1.1 Product identifier

Natural gypsum/natural anhydrite (calcium sulphate dihydrate/calcium sulphate)

EG-Nr.: 231-900-3

CAS-Nr.: 7778-18-9

The above listed product names are, in some cases, names of product groups. Where applicable, the individual product groups can have an additional denotation. This safety data sheet is also applicable to the products with additional denotation.

Hazard components for labelling: None.

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

Typical applications: Gypsum binder; gypsum dry mortar; gypsum filler; gypsum adhesives; modelling plasters; moulding plasters; gypsum boards; calcium sulphate screeds; setting regulator; fertiliser; filler; animal feed; food additive; intermediate; laboratory chemical, pharmaceutical; pH adjustment; process aid; absorption and adsorption agent for gases or liquids; dye, pigment; complexing reagent.

Note:

Natural gypsum/natural anhydrite has no hazardous properties.

To avoid misinterpretation, no safety data sheet is provided. However, the information in this substance information sheet corresponds in form and content to the safety data sheet according to Annex II of the REACH Regulation (EC) No. 1907/2006 (REACH).

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Heidelberg Materials AG

Street address/P.O. Box: Berliner Str. 6

Country ID/Postcode/Place: DE-69120 Heidelberg

Telephone number: +49 6221 / 481 – 0

Telefax: +49 6221 / 481 13 – 554

Information provided by: Gipsgrube Obrigheim

Phone: +49 6266 / 9207-0

E-mail address of competent person responsible for the SDS:

zement.sdb@heidelbergmaterials.com

Production sites: Plant Obrigheim in 74855 Haßmersheim

1.4 Emergency telephone number

Emergency telephone number: +49 6131 / 19 240 (Poison Information Center in Mainz, Germany)

Opening hours: 24 hours / 7 days

Service is provided in the following languages: German, English

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

None. The product is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

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

The product is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP] and therefore does not require labelling.

2.3 Other hazards

None. The product does not fulfil the criteria for PBT or vPvB according to Annex XIII of REACH Regulation (EC) No 1907/2006.

SECTION 3: Composition/information on ingredients

3.1 Substances

Natural occurrence of gypsum (calcium sulphate dihydrate) and/or anhydrite (calcium sulphate).

Anhydrite, calcium sulphate CaSO_4
Gypsum, calcium sulphate dihydrate $\text{CaSO}_4 \times 2 \text{H}_2\text{O}$

EC No. 231-900-3
CAS No. 7778-18-9

3.2 Mixtures

Not applicable as the product is a substance.

Hazardous ingredients:

None.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

If a doctor is consulted, please present this substance information sheet.

Following eye contact

Do not rub eyes dry, because mechanical stress may cause additional damage to the cornea. Where applicable, remove contact lenses and immediately rinse the eye, while open, under running water in order to remove all particles. If possible, use isotonic eye-cleansing solution (0.9 % NaCl). If eye irritation persists, consult an ophthalmologist.

Following skin contact

Wash off the product with soap and water. Consult a doctor in case of complaints.

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Following inhalation

Provide fresh air. Dust from the throat and nose should be removed quickly. If symptoms such as discomfort, coughing or persistent irritation occur, consult a doctor.

Following ingestion

Do not induce vomiting. If conscious, rinse mouth and drink plenty of water. Consult a doctor if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None. When contacting a physician, take this safety data sheet with you.

SECTION 5: Firefighting measures

5.1 Extinguishing media

The product is not flammable. Extinguishing agents and fire-fighting measures must be adapted to the surrounding fire.

5.2 Special hazards arising from the substance or mixture

The products are non-combustible and non-explosive and will not facilitate or sustain the combustion of other materials.

5.3 Advice for firefighters

No specific measures are required, as the products do not pose any fire-related hazards.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Avoid dust formation. Use suitable personal protective equipment. Wear protective clothing as described in section 8. Follow the instructions for safe handling as described in section 7.

6.1.2 For emergency responders

Emergency action plans are not required.

6.2 Environmental precautions

No measures required.

6.3 Methods and material for containment and cleaning up

Pick up the spilled product as dry as possible. If possible, use dry methods for cleaning that do not generate dust, e.g. industrial hoovers with a suitable filter.

6.4 Reference to other sections

See sections 7, 8 and 13 for further details.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures

Follow the recommendations as given in section 8.
To clean up dry product, see subsection 6.3.

Measures to prevent fire

Not applicable.

Measures to prevent aerosol and dust generation

Do not sweep. Where possible, use dry methods for cleaning, such as vacuum exhaust, which do not generate dust formation.

Further information about preventing dust formation is provided by DGUV:

<https://www.dguv.de/staub-info/zehn-goldene-regeln/index.jsp> as well as on the NePSi platform:

<https://guide.nepsi.eu/>.

Measures to protect the environment

No particular measures required.

7.1.2 Advice on general occupational hygiene

Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work and shower if necessary to remove dust. Avoid contact with eyes. After working with the product, users should wash or shower and use skin care products. Clean contaminated clothing, shoes, watches etc. before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Minimize contact with moisture.

7.3 Specific end use(s)

No additional information for the specific end uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Type of Evaluation Value	Evaluation Value	Peak Limitation	Source	Monitoring Procedure, e.g.,
General Dust Limit Value				
Maximum Allowable Concentration	8 h 1.25 mg/m ³ (R) 10 mg/m ³ (I)	2 (II) 15 min	20 (E) TRGS 900	TRGS 402

(R): Respirable dust fraction / (I): Inhalable dust fraction.

Information about the Technical Rules for Hazardous Substances (TRGS) can be found in section 16.4 in (1).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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Closed systems:

Provide dust extraction systems.

In semi-closed or open systems:

Provide dust extraction equipment or ensure good ventilation or humidification of the material.

8.2.2 Individual protection measures, such as personal protective equipment

General information: If possible, the product should be handled in sealed facilities or adequate ventilation should be provided to keep dust levels below the occupational exposure limit. Otherwise wear suitable protective equipment.

Respiratory protection: If dust is generated, we recommend wearing a dust mask type P1 or FFP1.

Hand protection: Approved cotton gloves with CE mark. Observe maximum wearing time. General information on skin protection can be found in DGUV Rule 112-195.

Eye/face protection: Wearing safety goggles is recommended in the event of dust formation.

Skin protection: Wear closed long-sleeved protective clothing and sturdy shoes.

8.2.3 Environmental exposure controls

No special measures required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- (a) Physical state: Powder / Granulate
- (b) Color: white, white beige, white grey
- (c) Odor: Odorless
- (d) Melting point/freezing point: The substance decomposes when heated (see decomposition temperature).
- (e) Boiling point or initial boiling point and boiling range: Not applicable
- (f) Flammability: Not applicable, as material is not combustible.
- (g) Lower and upper explosion limit: Do not apply to solids.
- (h) Flash point: Does not apply to solids.
- (i) Auto-ignition temperature: Not applicable, only applies to gases and liquids.
- (j) Decomposition temperature: Thermal decomposition of gypsum:
in CaSO_4 and H_2O from 140 °C
in CaO and SO_3 from 1180 °C
- (k) pH (T = 20 °C) in water: 7-9
- (l) Kinematic viscosity: Not applicable, only applies to liquids.
- (m) Solubility: in water at T = 20 °C (g CaSO_4 /L): 2.05 g/L
- (n) Partition coefficient n-octanol/water (log value): Not applicable, it is inorganic.
- (o) Vapor pressure: Not applicable, as melting point > 900 °C.
- (p) Density and/or relative density: 2.3-3.0 g/cm³; bulk density: ca. 0.7 g/cm³
- (q) Relative vapor density: Not applicable, only applies to gases and liquids.
- (r) Particle characteristics: Typical average particle size: 5-200 µm (Raw gypsum: 0 to 70 mm)

9.2 Other information

None.

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9.2.1 Information with regard to physical hazard classes

Not applicable.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No hazards with regard to reactivity.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition begins above 1180 °C with the formation of sulphur trioxide and calcium oxide.

SECTION 11: Toxicological information

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

Acute toxicity: None
Skin corrosion/irritation: None

Serious eye damage/irritation: None
Skin sensitization: None
Respiratory sensitization: None
Germ cell mutagenicity: None
Carcinogenicity: None
Reproductive toxicity: None
Specific target organ toxicity: None
Aspiration hazard: None

Medical conditions aggravated by exposure

None.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable.

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11.2.2 Other information

Not applicable.

SECTION 12: Ecological information

12.1 Toxicity

No toxic effects. The product is a naturally occurring substance.

12.2 Persistence and degradability

Not applicable, as the product is an inorganic mineral material.

12.3 Bioaccumulative potential

Not applicable, as the product is an inorganic mineral material.

12.4 Mobility in soil

Not applicable, as the product is an inorganic mineral material.

12.5 Results of PBT and vPvB assessment

Not applicable, as the product is an inorganic mineral material.

12.6 Endocrine disrupting properties

Not applicable.

12.7 Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Unused residual amount of dry product

Gather dryly. Label container. Reuse if possible, avoiding exposure to dust. If disposal, then according to waste code AVV 17 08 02 (gypsum-based building materials with the exception of those falling under 17 08 01).

Packaging

Empty packaging completely and recycle. Otherwise, dispose of the completely emptied packaging according to waste code EWC: 15 01 01 (paper and cardboard packaging) or 15 01 05 (composite packaging).

SECTION 14: Transport Information

The product is not subject to the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). Therefore, no dangerous goods classification is required.

14.1 UN number or ID number

Not applicable.

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14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH)

National regulations (Germany)

- Ordinance on Hazardous Substances (GefStoffV)
- Waste Framework Directive (European List of Waste)
- Technical Rules for Hazardous Substances 900 "Maximum Allowable Concentrations" (TRGS 900)
- Technical Rules for Hazardous Substances 402 "Determination and Evaluation of Hazards during Operations with Hazardous Substances: Inhalative Exposure" (TRGS 402)
- Water Hazard Class: WGK 1 (slightly hazardous to water, listed substance, identification no. 325), according to AwSV from 18.04.2017

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

The new version 2.0 considers in section 1.3 the renaming of HeidelbergCement AG to Heidelberg Materials AG and thereby resulting changes of the contact details. In the other sections, only a few editorial adjustments have been made.

16.2 Abbreviations and acronyms

ADR/RID European Agreements on the Transport of Dangerous Goods by Road/Railway

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CLP	Classification, Labeling and Packaging (Regulation (EC) No 1272/2008)
EPA	Type of high efficiency air filter
HEPA	Type of high efficiency air filter
IATA	International Air Transport Association
IMDG	International Agreement on the Maritime Transport of Dangerous Goods
PBT	Persistent, Bio-accumulative, and Toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (Regulation (EC) 1907/2006)
SDS	Safety Data Sheet
TRGS	Technical Rules for Hazardous Substances
vPvB	Very persistent, very bioaccumulative

16.3 Process categories and descriptors

None.

16.4 Key literature references and sources for data

- (1) *Technical Rules for Hazardous Substances (TRGS)*:
<https://www.baua.de/DE/Angebote/Rechtstexte-und-Technische-Regeln/Regelwerk/TRGS/TRGS.html>.

16.5 Relevant H-statements (number and full text)

Not relevant

16.6 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Not relevant

16.7 Training advice

In addition to training programs for employees on the topic health, safety and environment, companies must ensure that their employees are able to read and to understand the safety data sheet, and to implement the requirements.

16.8 Disclaimer

The information given in this safety data sheet describes the safety requirements of our products and is based on the currently available knowledge. It does not represent any warranty of end product properties. Existing legislation, ordinances, and regulations, including those not mentioned in this safety data sheet, are to be observed by the recipient of our products at his own responsibility.