

**Section 1: Identification of the substance/mixture and of the company****1.1 Product identifier**

Trade name:	Vinfoferm® Calcium sulphate
Name of the substance:	Calcium sulphate dihydrate
Chemical name:	Calcium sulphate
Formula:	CaSO ₄ *2H ₂ O
Synonyms:	Ground natural gypsum, sulphuric lime
CAS-No.:	7778-18-9
EC-No.:	231-900-3
REACH No.:	01-2119444918-26-0183

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

Use of the substance:	Filler, intermediate product, processing aid, Adsorption and absorption agent for gases or liquids
Relevant identified uses:	Industrial use, Research, Commercial use, analytics, Use by private consumers, Scientific education
Uses advised against:	None

1.3 Details of the supplier providing the material safety data sheet**Brouwland**

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B-3581 Beverlo – Belgium

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1.4 Emergency number

GIZ-Nord: [(Information centre for poisoning cases)] +490 (0) 551 19240

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**Section 2: Potential hazards****2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008

The substance has been classified as not hazardous.
[The product has not been classified according to the CLP-regulation]**2.2 Labelling elements**

Labelling according to Regulation (EC) No. 1272/2008	Not applicable
Hazard pictograms	None
Signal word:	None
Hazards information:	None
Safety information:	None

2.3 Other hazards

Results of PBT- and vPvB-assessment

PBT: Not applicable.
vPvB: Not applicable**Section 3: Composition / information on ingredients****3.1 Substances**

This product is a substance.

3.2 Mixtures

Chemical name:	Calcium sulphate
Formula:	CaSO ₄ *2H ₂ O
CAS-No.:	7778-18-9
EC-No.:	231-900-3
REACH No.:	01-2119444918-26-0183
Stabilizers:	None
Contaminations:	No contaminations relevant for classification and labelling.
Hazardous ingredients:	None

Section 4: First-aid measures

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**4.1 Description of first-aid measures**

General information:	No adverse effects when the substance is used as specified.
After inhalation:	Fresh air, consult physician when complaints occur.
After skin contact:	Wash off with water and soap.
After eye contact:	Rinse eyes under running water with eyelids open for at least 15 minutes and consult an eye specialist.
After ingestion:	Rinse out mouth and drink plenty of water. Seek medical attention.
Notes for the physician:	Skin compatible neutral salt. No allergic reactions known. Soluble dust.

4.2 Main symptoms and effects, both acute and delayed

No specific symptoms or effects known.

4.3 Information on medical emergency assistance or special treatment needed

No additional relevant information available

Section 5: Fire-fighting measures**5.1 Extinguishing agents**

General information:	The product itself is non-combustible. In the event of a surrounding fire, the following points have to be observed:
Suitable extinguishing agents	All extinguishing agents are suitable.
Unsuitable extinguishing agents:	None

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

Special protective equipment.	Wear self-contained breathing apparatus
Further information:	The product is not combustible.

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**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personnel and members of emergency services not trained for emergencies:

Ensure sufficient ventilation.
Wear suitable personal protective equipment

Avoid dust formation.
The product forms slippery surfaces when combined with water

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Take up mechanically, take up dry.

6.4 Reference to other sections

None

Section 7: Handling and storage**7.1 Precautions for safe handling**

Precautions:

Avoid formation of dust and contact with eyes.

Fire protection measures:

The product itself is non-combustible. No special measures required.

Measures to prevent aerosol and dust formation:

If technically feasible, use equipment with local evacuation.

Advice relating to general industrial hygiene:

Do not eat, drink, smoke or snuff at the workplace.

Wash hands before breaks and after work.

Used work clothing should not be worn outside the workplace.

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7.2 Conditions for safe storage, including incompatibilities

Requirements for storage rooms and containers:	No specific requirements.
Information on storage with other products:	Not required.
Further information about storage conditions:	Store in a dry place. Keep container tightly closed.
Storage category:	Non-flammable solid material (LGK 13) [storage category]

7.3 Specific end use

No additional relevant information available.

Section 8: Exposure controls and personal protection

8.1 Parameters to be monitored

Substance	Dust, alveolar fraction		Dust, respirable fraction		Calcium sulphate	
	8 h (mean value)	Short-term exposure	8 h (mean value)	Short-term exposure	8 h (mean value)	Short-term exposure
Limit Value						
Unit	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³
Germany (TRGS 900)	3 A	6 A	10 E	20 E	6 A	-----
Germany (DFG)	1.5 A	-----	4 E	-----	4 A	-----

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**8.1.4 Exposure limits under processing conditions****DNEL-values:**

Exposure path:	Exposure pattern:	DNEL (employee)	DNEL (consumer)
Inhalation:	Short-term, repeated and acute	5082 mg/m ³	3811 mg/m ³
	Long-term, repeated	21.17 mg/m ³	5.29 mg/m ³
Swallowing:	Short-term, repeated and acute	-----	11.4 mg/kg KW/day
	Long-term, repeated	-----	1.52 mg/kg KW/day

PNECS:

Water:	No acute toxicity for fish, aquatic invertebrates, algae and micro-organisms at the concentrations examined in studies. Acute toxicity of calcium sulphate for fish, algae, aquatic invertebrates and micro-organisms is generally higher than the maximum concentrations tested and larger than the maximum solubility of calcium sulphate in water.
Sediment:	Not applicable due to the general presence of calcium and its sulphates in the environment.
Floor:	Not applicable due to the general presence of calcium and its sulphates in the environment.
Sewage treatment plants:	100 mg/L

8.2 Limitation and monitoring of exposure

General protection and hygiene measures: Refer to Section 7

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**Personal protective equipment**

Respiratory protection:	In case of dust formation, wear respirator mask with FFP 2-filter.
Hand protection:	In case of prolonged or repeated contact, wear protective gloves. The glove material must be impermeable and resistant against the product / substance / preparation. Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation
Glove material	Nitrile-impregnated cotton gloves
Penetration time of the glove material:	Information on the precise penetration time is available from the manufacturer; it has to be observed.
Eye protection:	In the event of any risk of splashing, wear safety glasses with lateral shields (as defined in EN 166).
Body protection:	Protective work clothing

Section 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Aggregation state:	Solid. Crystalline powder / granulate
Colour:	White, beige, light yellow, grey or reddish
Odour:	Natural
pH (at 20 °C), as-delivered condition:	Not applicable
pH (at 20°C), in aqueous solution:	6...8
Melting point/freezing point:	1450 °C
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gaseous):	Inflammable
Upper / lower flammability or explosive limits	Not applicable
Steam pressure:	Not applicable
Vapour density	Not applicable
Relative density:	approx. 2.31 g/cm ³
Bulk density:	800-1000 kg/m ³
Solubility in water (at 20°C):	Approx. 2.05 gCaSO ₄ / L
Partition coefficient (n-octanol/water):	The substance is inorganic.
Auto-ignition temperature:	Not applicable
Temperature of decomposition into CaO and SO ₃ :	approx. 1000°C
Viscosity:	Not applicable
Explosive properties:	Not explosive
Oxidizing properties.	Not oxidizing

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9.2 Other information: None.

Section 10: Stability and reactivity

10.1 Reactivity

No additional relevant information available.

10.2 Chemical stability

No (thermal) decomposition when stored and handled as specified.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to be avoided

Contamination with sulphur-reducing bacteria and water under anaerobic conditions should be avoided.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition sets in at temperatures above 1450°C. Decomposition under formation of sulphur trioxide and calcium oxide.

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Section 11: Toxicological Information

11.1 Information on toxicological effects

Relevant hazard class	Activation threshold	Species	Method [OECD]	Comment
Acute coral toxicity	LD50 > 1581 mg/kg bw	Rat	420	
Acute dermal toxicity	Not applicable			No dermal toxicity due to the low absorption potential.
Acute inhalative toxicity	LC50 > 2.61mg/L	Rat	403	Maximum dose that can be administered
Corrosive/irritant effect on the skin	Not applicable	Rabitted	404	Not irritant
Serious damage/irritation to the eyes	Not applicable	Rabitted	405	Not irritant
Allergisation of respiratory tract/skin	Not applicable	Guinea pig	406	Substance has no allergisation effect on skin
Gamete mutagenity	Not applicable	In vitro tests	471 476	No mutagenity
Carcinogenity	Not applicable	Mouse:	474	No mutagenity No carcinogenity through calcium sulphate
Reproduction toxicity	NOAEL	Rat	422	No signs for reproductive toxicity observed.
STOT in case of one-time exposure	790 mg/kg bw Not applicable			No toxicities for organs observed in short-term tests
STOT with repeated exposure	Not applicable			No signs for repeated dose toxicity of calcium sulphate for specific target organs.
Aspiration risk	Not applicable			No risk of aspiration anticipated

Section 12: Environmental information

12.1 Toxicity

Aquatic toxicity: No additional relevant information available.

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**12.2 Persistence and degradability**

No additional relevant information available.

12.3 Bioaccumulation potential

No additional relevant information available.

12.4 Mobility in soil

No additional relevant information available.

Other ecological information:

General information: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT- and vPvB-assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other harmful effects:

No additional relevant information available.

Section 13: Disposal considerations**13.1 Waste treatment process**

Recommendation: Disposal in accordance with the applicable government regulations

European waste catalogue:

17 08 Gypsum-based construction materials 17 08 02 Gypsum-based construction materials other than those mentioned in 17 08 01.

17 09 other construction and demolition waste 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.

Uncleaned packaging - recommendation: Contaminated packages are to be emptied as completely as possible. After appropriate cleaning, they may be re-used or recycled.

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**Section 14: Transport information****14.1 UN- Number**

ADR, IMDG, IATA: not applicable

14.2 Proper UN-shipping name:

ADR, IMDG, IATA: not applicable

14.3 Transport hazard classes

ADR, IMDG, IATA: not applicable

14.4 Pack group

ADR, IMDG, IATA: not applicable

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for the user:

Not applicable.

**14.7 Transportation in bulk according to Annex II of MARPOL-agreement
And according to IBC-Code**

Not applicable

UN "Model Regulation": Not applicable

Section 15: Legislation**15.1 Safety, health and environmental regulations/legislation specific
for the substance or mixture**

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**National regulations:**

Water hazard class	Slightly hazardous to waters – WGK 1 (Appendix 4, VwVwS Deutschland dated 27 Jul.2005 [German Administrative Regulation Regarding Water Pollutants])
TRGS 559 (Technical regulation for hazardous materials)	Mineral dust
TRGS 900 (Technical regulation for hazardous materials)	Occupational exposure limits (calcium sulphate, general dust limit)

15.2 Chemical safety assessment

Not applicable as the substance is not classified as dangerous under Regulation (EC) No. 1272/2008 [CLP]

Section 16: Other information

Wording of H and P-clauses:	None
Training advice on health and safety:	www.eurogypsum.org
Other notes;	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 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 as far as the product described in this material safety data sheet is combined, mixed or processed with other materials or is subjected to any adaptation, the information provided in this material safety data sheet may, unless expressly stated otherwise, not be transferred to the new material manufactured in the above manner.

Version 2 – 05/11/2019

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