

SAFETY DATA SHEET

prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006 and
Regulation (EC) 1272/2008, as amended
Version 13.6

Revision Date 03.09.2025
Date of first issue 28.10.2009

Print Date 13.10.2025

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

1.1. Product identifier

Product name

Synonyms

Calcium carbonate (natural)

Calcite, Aragonite, Marble, Chalk, Fluxstone, Ground Calcium Carbonate (GCC).

Please note that this list may not be exhaustive.

Trade name

Chemical name - Formula

CAS-No.

EC-No.

Molecular weight

REACH Registration Number

Calcium carbonate (natural)

Calcium carbonate - CaCO₃

1317-65-3

215-279-6

100,09 g/mol

This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

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

Find hereunder a general description of uses.

Manufacture of chemical products

Manufacture of basic metals, including alloys

Agriculture, forestry, fishery

Other activities related to manufacture and services

Water treatment chemicals

Food/ feedstuff additives

Manufacture of food products

Pharmaceuticals

Mining, (including offshore industries)

Manufacture of other non-metallic mineral products, e.g. plasters, cement

Paper articles

Manufacture of paints, varnishes and similar coatings, printing ink and mastics

Stone, plaster, cement, glass and ceramic articles

Building and construction work

Based on current knowledge there are no identified uses of the product, which are advised against.

1.3. Details of the supplier of the safety data sheet

Company

Address

Telephone

**E-mail of competent person responsible
for SDS in the MS or in the EU:**

Faxe Kalk A/S

Hovedgaden 13

4654 Faxe Ladeplads

Denmark

+4556763500

msds@faxekalk.dk

1.4. Emergency telephone number

Emergency telephone number (Europe)	112 <i>This telephone number is available 24 hours per day, 7 days per week.</i>
Poison Information Centre telephone number	+ 45 82 12 12 12 (Giftlinien) for Denmark.
Emergency telephone number (Company)	+4556763500 <i>This telephone number is available during office hours only.</i>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Hazard pictograms

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Signal word

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Hazard statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

The substance does not meet the criteria for PBT or vPvB substance.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	CAS-No.	EC-No.	REACH No.	Weight percent
Calcium carbonate	1317-65-3	215-279-6	—	<100

Degree of purity (%): No impurities relevant for classification and labelling

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

When symptoms persist or in all cases of doubt seek medical advice.

Inhalation

Move to fresh air.
If symptoms persist, call a physician.

Skin contact



Carefully and gently brush the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water. Remove contaminated clothing. If symptoms persist, call a physician.

Eye contact



In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion

Immediately give large quantities of water to drink. If symptoms persist, call a physician. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No known delayed effects.

4.3. Indication of any immediate medical attention and special treatment needed

Follow the advice given in section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product does not burn. Use dry powder, foam or CO2 type of fire extinguishers to fight the surrounding fire.

Unsuitable extinguishing media

none

5.2. Special hazards arising from the substance or mixture

When heated above 600°C, calcium carbonate decomposes to produce calcium oxide (CaO) and carbon dioxide (CO2). Calcium oxide reacts with water and generates heat. This may cause risk to flammable material.

5.3. Advice for firefighters

No special precautions required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Advice for non-emergency personnel

Ensure adequate ventilation.
Keep dust levels to a minimum.
Keep unprotected persons away.
Avoid contact with skin, eyes, and clothing – wear

suitable protective equipment (see section 8).
Avoid inhalation of dust – ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).

6.1.2. Advice for emergency responders See section 6.1.1

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Use vacuum suction unit, or shovel into bags.
Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.
To clean the floor and all objects contaminated by this material, use plenty of water.
Keep away from acids.

6.4. Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. Protective measures

Avoid contact with skin and eyes.
Keep dust levels to a minimum. Minimise dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.
Do not breathe vapours/dust.

7.1.2. Advice on general occupational hygiene

Avoid inhalation, ingestion and contact with skin and eyes.
General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

7.2. Conditions for safe storage, including any incompatibilities

Bulk storage should be in purpose designed silos.
Keep out of the reach of children.
Do not store near acids.
Keep in a dry place.
Keep tightly closed.

7.3. Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Chemical name	Form	Limit value	Legal basis
Calcium carbonate	Mineral dust inert	10 mg/m ³	No data available
	Mineral dust inert , respirable	5 mg/m ³	No data available

Derived No Effect Level

Workers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Calcium carbonate	Oral	Not required	Not required	Not required	Not required
	Inhalation	No hazard identified	No hazard identified	No hazard identified	10 mg/m ³
	Dermal	No hazard identified	No hazard identified	No hazard identified	No hazard identified

Consumers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Calcium carbonate	Oral	No exposure expected	6,1 mg/kg bw/day	No exposure expected	6,1 mg/kg bw/day
	Inhalation	No hazard identified	No hazard identified	No hazard identified	10 mg/m ³
	Dermal	No hazard identified	No hazard identified	No hazard identified	No hazard identified

Predicted No Effect Concentration

Chemical name	Environmental protection target							
	Fresh water	Fresh water sediment	Marine water	Marine sediment	Food chain	Microorganisms in sewage treatment	Soil	Air
Calcium carbonate	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	100 mg/l	No hazard identified	No hazard identified

8.2. Exposure controls

To control potential exposures, generation of dust should be avoided. Further, appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

8.2.1. Appropriate engineering controls

Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below the OES, if not wear suitable protective equipment.

8.2.2. Individual protection measures, such as personal protective equipment (PPE)

8.2.2.1. Eye/face protection



Chemical resistant goggles must be worn.
Do not wear contact lenses.
For powders, tight fitting goggles with side shields (frame goggles), or wide vision full goggles in accordance with EN 166:2001, at least optical class 2, mechanical strength F. It is also advisable to have

8.2.2.2. Skin protection



individual pocket eyewash.

Use approved nitrile impregnated gloves having CE marks.

Use clothing fully covering skin, full length pants, long sleeved overalls, with close fittings at openings. Footwear resistant to caustics and avoiding dust penetration.

8.2.2.3. Respiratory protection



Use appropriate respiratory protection against particles according to the risk level.

8.2.2.4. Thermal hazards

The substance does not represent a thermal hazard, thus special consideration is not required.

8.2.3. Environmental exposure controls

All ventilation systems should be filtered before discharge to atmosphere.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	pebble granules powder solid
Colour:	white off-white beige
Odour:	odourless
Melting point/freezing point:	T > 600°C: $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
Boiling point:	Not applicable (solid with a melting point > 450°C)
Flammability:	The substance is not flammable. Lower flammability limit: No data available Upper flammability limit: No data available
Lower and upper explosion limit:	Not explosive <u>Upper/Lower explosion limit</u> upper: No data available lower: No data available
Flash point:	Not applicable (inorganic substance).
Auto-ignition temperature (°C):	No relative self-ignition temperature below 400°C (study result, EU A.16 method)
Decomposition temperature:	When heated above 600°C, calcium carbonate decomposes to produce calcium oxide (CaO) and carbon dioxide (CO ₂).
pH:	8 - 9; > 20 mg/l; 25 °C
Kinematic viscosity:	Not applicable
Solubility(ies):	16,6 mg/l; 20 °C; OECD Test Guideline 105;
Partition coefficient n-octanol/water (log value):	Not applicable (inorganic substance).
Vapour pressure:	Not applicable

Density:	2,710 - 2,940 g/cm ³ ; 20 °C
Relative vapour density:	Not applicable
Particle characteristics:	Solid material of varying sizes: lump, granular or powder. Lump: >15 mm Granular: 5-15 mm Powder: <5 mm Particle size distribution by manual dry sieving. The product is derived from naturally occurring minerals and is not intentionally manufactured in the nano scale although it may contain particles with one or more external dimensions in the size range 1 nm-100 nm.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Exothermic reaction with acids.

10.3. Possibility of hazardous reactions

The product reacts exothermically with acids.

10.4. Conditions to avoid

For information on conditions to avoid, please see SECTION 7.

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

Decomposes by reaction with strong acids.

For hazardous decomposition products resulting from heat, please see SECTION 5.

SECTION 11: Toxicological information

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

Acute toxicity

Oral LD₅₀ > 2000 mg/kg bw (OECD 420, rat)
Dermal LD₅₀ > 2000 mg/kg bw (OECD 402, rat)
Inhalation LC₅₀ (4h) > 3 mg/L air (OECD 403, rat)
The substance is of low order of acute toxicity by inhalation, dermal and oral routes of exposure.

Skin corrosion/irritation

(rabbit), method OECD 404 - not irritating.

Serious eye damage/eye irritation

(rabbit), method OECD 405 - not irritating.

<u>Respiratory or skin sensitisation</u>	Does not cause skin sensitisation.
<u>Germ cell mutagenicity</u>	In vitro tests did not show mutagenic effects
<u>Carcinogenicity</u>	Calcium (administered as Ca-lactate) is not carcinogenic (experimental result, rat). The pH effect of the product does not give rise to a carcinogenic risk. Human epidemiological data support lack of any carcinogenic potential of the product. Classification for carcinogenicity is not warranted.
<u>Reproductive toxicity</u>	Calcium (administered as Ca-carbonate) is not toxic to reproduction (experimental result, mouse). The pH effect does not give rise to a reproductive risk. Human epidemiological data support lack of any potential for reproductive toxicity of the product. Both in animal studies and human clinical studies on various calcium salts no reproductive or developmental effects were detected. Also see the Scientific Committee on Food (Section 16.6). Thus, the product is not toxic for reproduction and/or development. Classification for reproductive toxicity according to regulation (EC) 1272/2008 is not required.
<u>STOT - single exposure</u>	Based on available data, the classification criteria are not met.
<u>STOT - repeated exposure</u>	Based on available data, the classification criteria are not met.
<u>Aspiration hazard</u>	The product is not known to present an aspiration hazard.

11.2. Information on other hazards

Based on the available data on the substance, there are no indications to suggest that the product fulfils any of the criteria to be identified as an endocrine disruptor as described in the Regulations (EC) No 1907/2006, (EU) 2017/2100 and (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

<u>Toxicity to fish</u>	Oncorhynchus mykiss (rainbow trout); LC50 >100% v/v; 96 h; OECD Test Guideline 203; Exceeds maximum solubility of substance.
<u>Toxicity to aquatic invertebrates</u>	No data available
<u>Toxicity to aquatic plants</u>	Desmodesmus subspicatus (green algae); EC50; 72 h; > 14 mg/l; OECD Test Guideline 201; Exceeds maximum solubility of substance.
<u>Toxicity to microorganisms / Toxicity to bacteria</u>	activated sludge; EC50; 3 h; > 1.000 mg/l; OECD Test Guideline 209; Not toxic
<u>Toxicity to daphnia and other aquatic invertebrates</u>	Daphnia magna (Water flea); LC50 >100% v/v; 48 h; OECD Test Guideline 202; Exceeds maximum solubility of substance.

Toxicity to soil dwelling organisms

Soil microorganisms; EC50; 28 d; OECD Test Guideline 216; Not toxic

Eisenia fetida (earthworms); LC50; 14 d; OECD Test Guideline 207; Not acutely toxic

Toxicity to terrestrial plants

Avena sativa (oats); EC50; 21 d; OECD Test Guideline 208; Not acutely toxic

Other effects

Calcium carbonate is a common natural mineral sparingly soluble, which exists in all surface waters (lakes, rivers).

Other information

None

12.2. Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Not relevant for inorganic substances.

12.4. Mobility in soil

Calcium carbonate is sparingly soluble, and so presents a low mobility in most ground.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB substance.

12.6. Endocrine disrupting properties

Based on the available data on the substance, there are no indications to suggest that the product fulfils any of the criteria to be identified as an endocrine disruptor as described in the Regulations (EC) No 1907/2006, (EU) 2017/2100 and (EU) 2018/605.

12.7. Other adverse effects

No other adverse effects are identified.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Reuse or recycle whenever possible.

If the reuse or recycling is not possible, disposal must be made according to local and national regulation.

Processing, use or contamination of this product may change the waste management options.

Waste classification code must be determined at the point of waste generation.

Dispose of container and unused contents in accordance with applicable member state and local requirements.

The used packaging is only meant for packing this product; it should not be reused for other purposes.

SECTION 14: Transport information

	IATA	ADR	IMDG	ADN	RID
14.1. UN number or ID number	Not regulated as a dangerous good				
14.2. UN proper shipping name	Not regulated as a dangerous good				
14.3. Transport hazard class(es)	Not regulated as a dangerous good				
Hazard Labels	Not regulated as a dangerous good				
Regulated	Not regulated as a dangerous good				
14.4. Packing group	Not regulated as a dangerous good				
14.5. Environmental hazards	None.				
14.6. Special precautions for user	Avoid any release of dust during transportation, by using air-tight tanks for powders and covered trucks for pebbles.				
14.7. Maritime transport in bulk according to IMO instruments	Not regulated				

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations	Not required
Restrictions on use	None
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	None of the substances currently listed in Annex XIV of the REACH regulation 1907/2006/EC or in the SVHC Candidate List are known to be incorporated in this product in quantities ≥ 0.1 % w/w.
Other regulations (European Union)	The product is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
National regulatory information	Ordinance on facilities for handling substances that are hazardous to water (AwSV) not water endangering (nwg)

15.2. Chemical safety assessment

This substance is exempt from registration according to Regulation (EC) No. 1907/2006 (REACH).

SECTION 16: Other information

Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

16.1. Hazard statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

16.2. Precautionary statements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

16.3. Abbreviations

DNEL: Derived no effect level
EC50: median effective concentration
LC50: median lethal concentration
LD50: median lethal dose
NOEC: no observable effect concentration
OEL: occupational exposure limit
PBT: persistent, bioaccumulative, toxic chemical
PNEC: predicted no-effect concentration
SDS: Safety data sheet
STEL: short-term exposure limit
STOT: specific target organ toxicity
TWA: time weighted average
vPvB: very persistent, very bioaccumulative chemical

16.4. Literary reference

The European Calcium Carbonate Association

Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document]

Data sheet prepared in accordance with:

Annex II of the REACH Regulation (EC) 1907/2006.

References:

1. Council Directive 90/269/EEC

2. Booklet L64 - Safety Signs and Signals. The Health and Safety (Safety Signs and Signals) Regulations 1996 - Guidance on Regulations (HSE) - ISBN 978 0 7176 6359 0

3. <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

4. The Merck Index (Ed. Merck & Co, Rahway, USA)

16.5. Additions, Deletions, Revisions

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. 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.

End of Safety Data Sheet