

# SAFETY DATA SHEET

## Limestone

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

Date issued 11.08.2022

#### 1.1. Product identifier

Product name Limestone  
 Chemical name Calcium carbonate  
 Synonyms Limestone, Limestone Standard, Limestone Pure, Betofill, Bitufill, Franzitt, Environmental limestone, Agri  
 CAS no. 1317-65-3  
 EC no. 215-279-6  
 Formula CaCO<sub>3</sub>

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

Use of the substance/preparation Soil improvement, liming, additive in animal feed, fillers, pH-adjustment, alkalisation and calcium addition to municipal waterworks.

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Company name Franzefoss Minerals AS  
 Office address Olav Ingstadsvei 5  
 Postal address Postboks 53, 1309 Rud  
 Postcode 1309  
 City Rud  
 Country Norge  
 Tel +47 97505255  
 Fax  
 E-mail post@kalk.no  
 Contact person Jan Olav Ryan

#### 1.4. Emergency telephone number

Emergency telephone Giftinformasjonen: 22 59 13 00

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification notes CLP Classification according to (EC) No.1272/2008: Not classified.

#### 2.2. Label elements

Other Label Information (CLP) NOT CLASSIFIED according to health-, fire- and environmental hazard.

#### 2.3. Other hazards

PBT / vPvB PBT/vPvB assessment has not been performed.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Hazardous impurities Contains < 0,4 % crystalline quartz.

Substance	Identification	Classification	Contents
Calcium Carbonate	CAS no.: 1317-65-3		97 - 99 %

	EC no.: 215-279-6
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m <sup>3</sup> , ppb, ppm, weight%, vol%
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Contact physician if discomfort continues.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Do not induce vomiting. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	Dust may cause mechanical irritation of mucous membranes. Symptoms may include coughing, sore throat, reddening, burning sensation and heavy watering of the eyes Dust may irritate the skin in a mechanical way. Ingestion may cause discomfort. May cause constipation and flatulence.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Other Information	No specific treatment required, see section 4.1.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. Foam. Powder.
Improper extinguishing media	Do not use water jet.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	Can include, but are not limited to: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

### 5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other Information	Containers close to fire should be removed immediately or cooled with water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Use protective equipment as referred to in section 8.
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### 6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Avoid formation of dust. Flush area with plenty of water. Collect spillage with shovel, broom or the like. Collect in suitable containers and deliver as waste according to section 13.
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#### 6.4. Reference to other sections

Other instructions	See also sections 8 and 13.
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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Avoid handling which leads to dust formation. Avoid inhalation of dust and contact with skin and eyes. Use protective equipment as referred to in section 8.
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#### Protective Safety Measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.
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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed and dry.
Special risks and properties	This chemical contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud.

#### Conditions for safe storage

Advice on storage compatibility	Keep away from: Acids.
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#### 7.3. Specific end use(s)

Specific use(s)	See section 1.2.
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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational Exposure limit values

Substance	Identification	Value	TWA Year
alpha-quartz, respirable dust	CAS no.: 14808-60-7 EC no.: 238-878-4	8-hour TWA: 0,1 mg/m <sup>3</sup> K	2007
alpha-quartz, total dust	CAS no.: 14808-60-7 EC no.: 238-878-4	8-hour TWA: 0,3 mg/m <sup>3</sup> K	2010

Other Information about threshold limit values	Explanation of the notations: K = carcinogenic
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#### 8.2. Exposure controls

Occupational exposure limits	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
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#### Respiratory protection

Respiratory protection	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).
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#### Hand protection

Hand protection	Gloves are recommended for prolonged use.
Suitable gloves type	Nitrile. Butyl rubber. Neoprene.
Breakthrough time	Not relevant. The chemical is a solid.

#### Eye / face protection

Eye protection	Use tight fitting goggles if dust is generated.
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#### Skin protection

Skin protection (except hands)	Ordinary workwear.
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## Appropriate environmental exposure control

Environmental exposure controls Do not allow to enter into sewer, water system or soil. See also section 12.

## Other Information

Other Information The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.  
Emergency shower and eye wash facilities should be available at the workplace.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Powder. Crushed stone.
Colour	From completely white to dark grey.
Odour	Odourless.
Comments, Odour limit	Not known.
pH (aqueous solution)	Value: 8-9
Comments, pH (aqueous solution)	Aqueous solution.
Comments, Melting point / melting range	Not known.
Comments, Boiling point / boiling range	Not known.
Comments, Flash point	Not known.
Comments, Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Comments, Explosion limit	Not known.
Comments, Vapour pressure	Not known.
Comments, Vapour density	Not known.
Specific gravity	Value: 2,71 g/cm <sup>3</sup>
Comments, Specific gravity	Valid for density.
Solubility in water	Poorly soluble.
Comments, Solubility	Soluble in hot acids.
Comments, Partition coefficient: n-octanol / water	Not applicable.
Comments, Spontaneous combustability	Not known.
Decomposition temperature	Value: 899 °C
Comments, Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.

### 9.2. Other information

#### Other physical and chemical properties

Comments No further information is available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity Under normal conditions and use there are not expected any reactivity hazards for this chemical. Reactive with the materials listed in Section 10.5.

### 10.2. Chemical stability

Stability The chemical is stable under normal conditions of storage and use.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Arise in contact with incompatible materials (section 10.5).

### 10.4. Conditions to avoid

Conditions to avoid No recommendation given.

## 10.5. Incompatible materials

Materials to avoid Acids.

## 10.6. Hazardous decomposition products

Hazardous decomposition products Heating to temperatures above 899 °C liberates CO<sub>2</sub>. See also section 5.2.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Potential acute effects

Inhalation	Dust in high concentrations may irritate the respiratory system. Symptoms such as cough and sore throat may occur.
Skin contact	Dust may irritate the skin.
Eye contact	Dust may irritate the eyes. Symptoms such as watery eyes and burning may occur.
Ingestion	May cause discomfort if swallowed. May cause constipation and flatulence.
Irritation	Based on available data, the classification criteria are not met.
corrosivity	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

#### Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.

#### Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	Alpha-quartz is not classified as carcinogenic, but is marked as carcinogenic in the Norwegian working exposure limit list. Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic, fish	Value: > 100 mg/l Method of testing: LC50 Duration: 96 hours
Ecotoxicity	The chemical is not classified as harmful to the environment.

### 12.2. Persistence and degradability

Persistence and degradability	Emissions to water will make the water murky, especially with the emission of finely ground qualities. Eventually, the chemical will sediment.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	Will not bio-accumulate.
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### 12.4. Mobility in soil

Mobility	The product is insoluble in water and will sediment in water systems.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	PBT assessment has not been performed.
vPvB evaluation results	vPvB assessment has not been performed.

### 12.6. Other adverse effects

Other adverse effects / Remarks	Emissions to water will give a minor raise in the pH.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of	Deliver to authorised waste vendor. The waste code (EWC-Code) is intended
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disposal	as a guide. The user must select a code if the use differs from the one mentioned below.
Product classified as hazardous waste	No
EWC waste code	EWC: 19 12 09 minerals (for example sand, stones)

## SECTION 14: Transport information

### 14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.
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### 14.2. UN proper shipping name

Comment	Not relevant.
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### 14.3. Transport hazard class(es)

Comment	Not relevant.
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### 14.4. Packing group

Comment	Not relevant.
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### 14.5. Environmental hazards

Comment	Not relevant.
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### 14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	Not relevant.
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## SECTION 15: Regulatory information

EC no.	215-279-6
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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

References (laws/regulations)	<p>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.</p> <p>FOR 2002-07-16 nr 1139; Norwegian regulation on classification and labelling of dangerous chemicals with later amendments.</p> <p>Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II Safety Data Sheets.</p> <p>Norwegian regulation on exposure limits: FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier).</p> <p>Norwegian regulations on waste, no. 930/2004, from Ministry of the Environment.</p> <p>Dangerous Goods regulations</p>
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### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
Abbreviations and acronyms used	EWC = European Waste Code (a code from the EU's common classification system for waste) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative LC50: Concentration in water having 50%

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	chance of causing death to aquatic life
Important data sources used to construct the safety data sheet	Suppliers Safety data sheet dated: 06.07.2009
Information which has been added, deleted or revised	New Safety Data Sheet.
Checking quality of information	This SDS is quality controlled by National Institute of Technology in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Responsible for safety data sheet	Franzefoss Minerals AS
Prepared by	National Institute of Technology as, Norway v/ Tonje D. Rongved