



# SAFETY DATA SHEET

## NATURAL ZEOLITE GRIT PRODUCTS

Infosafe No: LQAJG  
Issued date: 27/07/2023  
Issued by All Seasons Synthetic Turf

### Section 1 - Identification

---

#### Product Identifier

NATURAL ZEOLITE GRIT PRODUCTS

#### Company Product Codes / Numbers / Unique Identifiers

FM 30/120,  
FM 16/50,  
FM 16/30,  
FM 16/30 Ag,  
FM 8/16,  
FM 8/30,  
FM 3/1,  
FM 4/2,  
FM 7/3,  
FM 2.2 PLUS,  
Other grit sizes

#### Company Name

CASTLE MOUNTAIN MINING (ABN 52 169 213 870)

#### Address

122 Station Street Quirindi  
NSW 2343 AUSTRALIA

#### Telephone/Fax Number

Tel: 02 6741 2333

#### Emergency Phone Number

02 6741 2333

#### E-mail Address

sales@cmzeolites.com.au

#### Recommended use of the chemical and restrictions on use

Livestock, Horticultural, Aquatic, Water and Air Filtration and Treatment, Industrial, Residential and General Purpose.

#### Other Information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this Castle Mountain Mining, makes no representations as to the completeness or accuracy thereof. Information is supplied on the conditions that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Castle Mountain Mining or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

### Section 2 - Hazard(s) Identification

---

#### GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Carcinogenicity: Category 1A  
Specific target organ toxicity (repeated exposure): Category 1

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H350 May cause cancer by inhalation.  
H372 Causes damage to organs through prolonged or repeated exposure by inhalation.

**Pictogram (s)**

Health hazard



**Precautionary Statement – Prevention**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Precautionary Statement – Response**

P308+P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.

**Precautionary Statement – Storage**

P405 Store locked up.

**Precautionary Statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### Section 3 - Composition and Information on Ingredients

**Ingredients**

Name	CAS	Proportion
Crystalline Silica (Quartz)	14808-60-7	1-10 %
Ingredients determined not to be hazardous		Balance

**Information on Composition**

The respirable fraction of free crystalline silica (<18 µm) is 1-10%.

**Preparation Description**

Minerals Present: Main - Clinoptilolite, Mordenite; Minor - Quartz, Feldspar, Montmorillonite.  
Composition: Calcium / Sodium Aluminosilicates.  
Chemical Formula: Typically (Na<sub>6</sub>)(Al<sub>6</sub>Si<sub>30</sub>O<sub>72</sub>).20H<sub>2</sub>O to Na<sub>3</sub>Ca<sub>2</sub>(Al<sub>8</sub>Si<sub>40</sub>O<sub>96</sub>).28H<sub>2</sub>O.  
Origin: Hard Rock Natural Ash Fall Tuff Deposit.

### Section 4 - First Aid Measures

**Inhalation**

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

## **Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

## **First Aid Facilities**

Eyewash and normal washroom facilities.

## **Advice to Doctor**

Treat symptomatically. Base Material is non-toxic and chemically inert. Electron photomicrographs have shown that particle shape is generally blocky and sub-rounded rather than sharp.

## **Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

---

## **Section 5 - Firefighting Measures**

### **Suitable Extinguishing Media**

Use extinguishing media that are suitable for the surrounding combustible materials.

### **Unsuitable Extinguishing Media**

Do not use water jet.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases.

### **Specific hazards arising from the chemical**

Non-flammable, non-explosive, reduces heat and is fire retardant.

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

---

## **Section 6 - Accidental Release Measures**

### **Emergency Procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

---

## **Section 7 - Handling and Storage**

### **Precautions for Safe Handling**

Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

---

## **Section 8 - Exposure Controls and Personal Protection**

### **Occupational exposure limit values**

No exposure value assigned for this material. However, the available exposure limits for ingredients are listed below:

Crystalline silica (Respirable dust)

TWA: 0.05 mg/m<sup>3</sup>

Note: Carc. 1A

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

#### **Biological Monitoring**

No biological limits allocated.

#### **Control Banding**

Not available

#### **Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

#### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved P1/P2 respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

#### **Eye and Face Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

#### **Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

#### **Thermal Hazards**

No further relevant information available.

#### **Body Protection**

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Powder	Appearance	Granular solid
Colour	Light pink to brownish red	Odour	Odourless
Melting Point	1000°C (approx.) (may tend to froth and bubble at temperatures in excess of 200°C)	Boiling Point	Not available
Decomposition Temperature	Not available	Solubility in Water	Virtually insoluble
pH	Not available	Vapour Pressure	Not available
Relative Vapour Density (Air=1)	Not applicable	Evaporation Rate	Not applicable
Odour Threshold	Not available	Viscosity	Not available
Volatile Component	Nil	Partition Coefficient: n-octanol/water (log value)	Not available
Density	Bulk Density: 1.1 to 1.8 kg/m <sup>3</sup> (approx.)	Flash Point	Not applicable
Flammability	Non-flammable	Auto-Ignition Temperature	Not applicable
Explosion Limit - Upper	Not applicable	Explosion Limit - Lower	Not applicable
Explosion Properties	Non-explosive		

### Other Information

Product Size: Nominally greater than 0.5mm (Codes: FM 16/50, FM 16/30, FM 16/30 AG, FM 8/16, FM 8/30, FM 3/1); Nominally greater than 2mm (Codes: FM 4/2, FM 7/3, FM 2.2 PLUS, 8/15)

Particle Shape: Cubic to Blocky.

## Section 10 - Stability and Reactivity

### Reactivity

Base Material is non-toxic and chemically inert.

### Chemical Stability

Stable under normal conditions of storage and handling.

### Possibility of hazardous reactions

Reacts with incompatible materials

### Conditions to Avoid

Dust accumulation, exposure to moisture.

### Incompatible Materials

Hydrofluoric acid

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Toxicology Information

No toxicity data available for this product.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of dusts may irritate the respiratory system. Chronic exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

May be irritating to eyes. The symptoms may include redness, itching and tearing.

**Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

May cause cancer by inhalation.

Respirable crystalline silica (quartz) is classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1)

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

**STOT - Repeated Exposure**

Causes damage to organs (lungs) through prolonged or repeated exposure by inhalation.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma.

## Section 12 - Ecological Information

---

**Ecotoxicity**

No ecological data are available for this material.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

**Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## Section 13 - Disposal Considerations

---

### Disposal Considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure to the chemical, refer to Section 8—Exposure controls and personal protection.

## Section 14 - Transport Information

---

### Transport Information

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### ADG U.N. Number

None Allocated

### ADG Proper Shipping Name

None Allocated

### ADG Transport Hazard Class

None Allocated

### Special Precautions for User

Not available

### IMDG Marine pollutant

No

### Transport in Bulk

Not available

### Additional Information

MARPOL: Not available

## Section 15 - Regulatory Information

---

### Regulatory Information

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

### Poisons Schedule

Not Scheduled

### Montreal Protocol

Not listed

### Stockholm Convention

Not listed

### Rotterdam Convention

Not listed

### International Convention for the Prevention of Pollution from Ships (MARPOL)

Not available

**Agricultural and Veterinary Chemicals Act 1994**

Not available

**Basel Convention**

Not available

**Section 16 - Any Other Relevant Information**

---

**Date of Preparation**

SDS created: July 2021

**Version Number**

1.0

**Literature References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals.

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

**END OF SDS**

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe SDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe SDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

The compilation of SDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any SDS displayed is permitted for personal use only and otherwise is not permitted. In particular the SDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of SDS without the express written consent of Chemical Safety International Pty Ltd.