

**SAFETY DATA SHEET****MK MINERALS, INC.**

Product: Pelletized High-Calcium Lime

Version: 1.1

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Revision Date: 2/28/2018

SECTION 1-PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pelletized High-Calcium Lime

Common Name: Limestone

Chemical Name: Calcium Carbonate

Chemical Formula: CaCO₃**Manufacturer or Supplier's Details:**

Company name of supplier: MK Minerals, Inc.

Address: 1025 Vernon Road
Wathena, KS, 66090

Telephone: (785)989-4566

Emergency Phone: (785)989-4566

Recommended use of the chemical and restrictions on use:

Recommended Use: Soil amendment

Restriction on Use: For Agriculture or Turf use only

SECTION 2-HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Brown granular mix
Odor	Slight mineral odor

GHS Classification

Not a hazardous substance or mixture

GHS Label Element

Not a hazardous substance or mixture

Health Hazard: May be irritating to the respiratory tract eyes, and skin. Ingestion may cause gastrointestinal upset.

Eye Contact: Direct contact with dust may cause irritation by mechanical abrasion.

Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Ingestion: If ingested, intestinal obstruction may occur if the material hardens, especially in the pyloric region.

Inhalation: Dusts may irritate the nose, throat, and respiratory tract by, mechanical abrasion. Coughing, sneezing and shortness of breath may occur following exposures more than appropriate exposure limits.

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SECTION 3-COMPOSTION /INFORAMTION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients

Chemical Name	CAS-No.	Typical composition (%)
Calcium carbonate	1317-65-3	85-95%
Calcium lignosulfonate	8061-52-7	1-2%

SECTION 4-FIRST AID MEARSURES

If inhaled: Move to fresh air in case of accidental inhalation of dust. If symptoms persist, call physician.

In case of skin contact: In case of skin contact, immediately rinse area with water. Cover irritated area with emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if irritation persist.

In case of eye contact: In case of eye contact immediately flush eyes with water for a minimum of 15 minutes. Warm water is recommended but cold may be used.

If swallowed: Rinse mouth thoroughly with water and drink afterwards plenty of water to dilute material in stomach. Do not induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5-FIRE FIGHTING MEASURES

Flash Point: Non-Flammable

Suitable extinguishing media: This material is not combustible. Appropriate extinguishing media for surrounding fire should be used.

Hazardous combustion products: None.

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6-ACCIDENTAL RELEASE MEASURES**Steps to be taken in case Material**

Is released or spilled: Use dry methods to collect spilled materials and reuse clean materials. Avoid generating dust. Do not clean up with compressed air. Minimize dust by evacuating area downwind in the case of large spills. Store contaminated material in dry, sealed plastic or non-aluminum metal containers. Residues on surfaces may be washed the water.

Environmental precautions: No special environmental precautions required. None of the components in the product are subject to the reporting requirements of title III or SARA, 1986 and 40 CFR.

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SECTION 7- HANDLING AND STORAGE

Ensure proper ventilation, and respiratory and eye protection are used under dusty conditions. Dew point conditions or other conditions causing presence of moisture will harden lime during storage. Excessive particulate concentrations in workplace must be avoided even though it is inert and non-toxic.

SECTION 8-EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients	CAS #	Value type (Form of exposure)	Control Parameters/Permissible Concentration	Basics
Calcium Carbonate	1317-65-3	TWA (Respirable)	5 mg/m ³	OASHA Z-1
		TWA (Total)	15 mg/m ³	OSHA Z-1

Personal Protective Equipment

Respiratory Protection:	When workers are facing concentration above the exposure limit they must use appropriate certified respirators
Hand protection remarks:	Long Sleeve and cotton gloves recommended
Eye protection:	Safety glasses with side shield, goggles, or face mask recommended
Ventilation:	Local exhaust ventilation recommended

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular mix
Color:	Light Brown
Odor:	Slight mineral odor
pH:	7.66
Boiling/ Melting Point:	N/A
Flash Point:	Non-Flammable
Flammability (Solid, Gas):	Does not ignite
Vapor Pressure:	N/A
Specific Gravity:	2.7-2.9 g/ml
Solubility in Water:	0.014 g/L @ 20°C
Thermal Decomposition:	825°C

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SECTION 10-STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical Stability: No decomposition if stored and applied as directed.

Incompatibility (Material to Avoid): Aluminum (at high temperatures), diazomethane

SECTION 11-TOXICOLOGICAL INFORMATION**Calcium sulfate dehydrate**

Exposure route: Inhalation, skin, and/or eye contact

Target organs: Eyes, skin, respiratory system.

Acute Effect: Calcium Carbonate dust had an irritant action on mucous membranes if the respiratory tract and eyes. There have been reports of conjunctivitis, chronic rhinitis, laryngitis, pharyngitis, impaired sense of smell and taste, bleeding from the nose and reactions of tracheal and bronchial membranes in exposed workers.

SECTION 12-ECOLOGICAL INFORMATION

Toxicity to Fish LC50 (Oncorhynchus mykiss (Rainbow Trout)): 10,000 mg/l Exposure time: 96 h

Toxicity to daphnia and others: ED50 (Daphnia magna (Water Flea)): > 1,000 mg/l Exposure time: 48 h

Toxicity to algae: ED50(Desmodesmus subspicatus(Green Algae)): > 200 mg/l Exposure time: 72 h

SECTION 13-DISPOSAL CONSIDERATIONS

May be disposed of as an inert solid in sanitary landfill or by other procedures in accordance with all federal, state, and local regulations.

SECTION 14-TRANSPORT INFORMATION

DOT Hazard Classification: None

Placard Required: None

SECTION 15-REGULATORY INFORMATION

FDA: Product is manufactured for agricultural applications. As such, FDA regulations do not apply.

SECTION 16-OTHER INFORMATION

The information contained herein has been compiled by MK Minerals, Inc. from sources it considers reliable and is accurate to the best of MK Minerals, Inc. knowledge. Before using the product identified hereon, the foregoing SDS and the product label should be read carefully. The information contained herein relates only to the product identified hereon and does not relate to its use in combination with any other material or in any process. Customers are encouraged to conduct their own tests concerning the use of the product identified hereon as each customer manner and conditions of use and handling may involve additional considerations. MK Minerals, Inc. assumes and shall incur no liability for any damages, losses, injuries, costs or consequential damages that may result for the uses or misuse of the product identified hereon, and the recipient assumes all such liability.