

# Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Moorganite All-Purpose Fertilizer**

Formula: Feather meal, composted chicken manure, gypsum, digested dairy manure, calcitic limestone, sulfate of potash

CAS No.: N/A

Recommended Use: Fertilizer

Company Identification: **Encap, LLC**

320 N. Broadway, Suite 340

Green Bay, WI 54303

Phone: (877) 405-5050

## 2. HAZARDS IDENTIFICATION

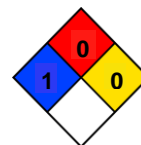
### HMIS Classification

Health Hazard:	1	<b>HEALTH</b>	1
Chronic Health Hazard:	-	<b>FIRE</b>	0
Flammability:	0	<b>REACTIVITY</b>	0
Physical Hazards:	0	<b>PPE</b>	E

(Safety glasses, gloves, and dust respirator)

### NFPA Rating

Health Hazard:	1
Fire:	0
Reactivity Hazard:	0
Special Hazard:	None



### Physical Hazards:

Not classified

### Health Hazards:

May cause temporary skin (category 2), eye (category 2B), or respiratory irritation  
May be harmful if swallowed

### GHS Labeling

Symbol: Exclamation mark

Signal Word: Warning



### Hazard Statements:

H303	May be harmful if swallowed	Oral toxicity hazard Category 5
H315	Causes skin irritation	Skin irritation Category 2
H320	Causes eye irritation	Eye irritation Category 2B
H335	May cause respiratory irritation	Respiratory irritation Category 3

### GHS Hazard Categories

### Precautionary Statements:

P 261	Avoid breathing dust
P 102	Keep out of reach of children

### Hazards Not Otherwise Classified:

Unknown

### OSHA Hazards

No known OSHA hazards

### Target Organs

Skin, eyes, and respiratory system.

### Potential Immediate Health Effects

Inhalation: May cause respiratory tract irritation.

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

# Moorganite All-Purpose Fertilizer

## 3. COMPOSITION

Chemical Identity: Feather meal	34.0%
Common Name: Feather meal	
CAS No.: NA	
Chemical Identity: Aerobically composted chicken manure	31.0%
Common Name: Chicken manure compost	
CAS No.: NA	
Chemical Identity: Calcium sulfate dihydrate	14.3%
Common Name: Gypsum	
CAS No.: 10101-41-4	
Chemical Identity: Anaerobically Digested Dairy Manure	11.2%
Common Name: Composted Dairy Manure	
CAS No.: NA	
Chemical Identity: Calcium Carbonate	8.5%
Common Name: Calcitic Limestone	
CAS No.: 471-34-1	
Chemical Identity: Potassium Sulfate	1.0%
Common Name: Sulfate of Potash	
CAS No.: 7778-80-5	

## 4. FIRST AID MEASURES

### EYE:

Symptoms: May cause eye irritation.

Irrigate immediately. If this product contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Seek medical attention if needed.

### SKIN:

Symptoms: May cause skin irritation.

Wash skin immediately rinse skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if needed.

### INHALATION:

Symptoms: Respiratory tract irritation.

Fresh air. If a person breathes in large amounts of this product, move to fresh air at once. Seek medical if needed.

### INGESTION:

Symptoms: May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Drink plenty of water. If needed, seek medical attention.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

A fine water spray, fog, CO<sub>2</sub> or dry chemical.

### Unsuitable Extinguishing Media

None known.

### Special Protective Equipment for Fire-Fighters

No special protective equipment required.

# Moorganite All-Purpose Fertilizer

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Use personal protective equipment. Ensure adequate ventilation. Remove sources of ignition if this material is stored or handled in a dry state.

### Environmental Precautions

Prevent product from entering drains.

### Methods and Materials for Containment and Clean-up

Contain spill, scoop up excess, apply suitable absorbent material and dispose of in an appropriate container. Do not flush with water. Sweep spilled substance into containers; avoid generating dust. Reuse if not contaminated.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed.

### Recommended Conditions for Storage

Store in a cool dry place. Do not freeze.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

	CAS No.	ACGIH TLV	OSHA/PEL
Feather meal	No CAS No.	unknown	unknown
Composted chicken manure	No CAS No.	unknown	unknown
Composted dairy manure	No CAS No.	unknown	unknown
Calcitic limestone	471-34-1	3 mg/m <sup>3</sup> resp.	5 mg/m <sup>3</sup> resp.
Calcium Sulfate Dihydrate (gypsum)	10101-41-4	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
Potassium Sulfate (sulfate of potash)	7778-80-5	unknown	unknown

### Engineering Controls

Local exhaust ventilation recommended. Running water should be available in case material gets in eyes.

### Personal Protective Equipment

#### Respiratory Protection

If dust becomes airborne, a NIOSH (US) or CEN (EU) approved respirator for dusts is recommended.

#### Hand Protection

None required. Protective gloves recommended.

#### Skin and Body Protection

Long sleeves or lab coat and long pants are recommended.

#### Eye Protection

NIOSH (US) or CEN (EU) approved safety glasses with side shields, goggles, or face shield.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown granules  
Odor: Earthy  
Odor threshold: Unknown  
pH: Unknown  
Melting Point: N/A  
Freezing Point: Unknown  
Evaporation Rate: 0  
Flammability: Not flammable  
Explosion Limits: Unknown  
Vapor Pressure: N/A  
Vapor Density: N/A  
Specific Gravity: Unknown  
Solubility in Water: Low  
Partition coefficient: Unknown  
Auto-ignition temp.: Unknown  
Decomposition temp.: Unknown  
Viscosity: N/A  
Other: Unknown

# Moorganite All-Purpose Fertilizer

## 10. STABILITY AND REACTIVITY

- Reactivity:** Non-reactive under recommended storage conditions. May react with strong oxidizing or reducing agents, aluminum (at high temperatures), and diazomethane.
- Chemical Stability:** Stable under recommended storage conditions. Avoid excess sources of ignition, heat, and incompatible materials. Dust suspended in air is readily ignited.
- Conditions to Avoid:** Large amounts of airborne dust.
- Hazardous Decomposition Products:** Thermal decomposition may produce CO, CO<sub>2</sub>, oxides of sulfur, oxides of calcium, oxides of nitrogen, and hydrocyanic acid.

## 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Eyes, skin, ingestion and inhalation.

### Potential Health Effects

**Inhalation:** May cause respiratory tract irritation.

**Skin:** May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

### Acute Toxicity

LD50 Oral - rat - 6,600 mg/kg (sulfate of potash)

### Reproductive Toxicity

No data available.

### Germ Cell Mutagenicity

No data available.

### Specific target organ toxicity - single exposure

Adverse health effects are not expected under normal use.

### Specific target organ toxicity - repeated exposure

Adverse health effects are not expected under normal use.

### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

IARC = International Agency for Research on Cancer

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.

ACGIH = American Conference of Industrial Hygienists

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.

NTP = National Toxicology Program

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

OSHA = Occupational Safety and Health Administration

## 12. ECOLOGICAL INFORMATION

### Toxicity

Acute LC50 - Fish - Bleak - *Alburnus alburnus* - 1,692.4 mg/L - 96 hr (Potassium Sulfate)

Acute LC50 - other aquatic organisms - > 1,000 mg/L - 96 h (Potassium Sulfate)

### Mobility

Water contaminating.

### Persistence and Degradability

Inherently biodegradable.

### PBT and vPvB Assessment

Does not bioaccumulate.

### Bioaccumulative Potential

Does not bioaccumulate.

### Other Adverse Effects

Large amounts released to water systems may harm aquatic plant and animal life.

# Moorganite All-Purpose Fertilizer

## 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. May be used as a supplement on land and on some agricultural products.

## 14. TRANSPORT INFORMATION

### DOT (US)

This material is not regulated by the DOT.

### IMDG

This material is not regulated by the IMDG.

### IATA

This material is not regulated by IATA.

## 15. REGULATORY INFORMATION

### OSHA Hazards

None of the chemicals in this product are listed as highly hazardous by OSHA.

### DSL Status

All components with CAS numbers are specified on the Canadian Domestic Substance List (DSL).

### SARA 302 Compounds

No chemicals in this material are subject to SARA Title III, Section 302 reporting.

### SARA 313 Compounds

No chemicals in this material are subject to the reporting requirements of Section 313 of SARA.

### SARA 311/312 Hazards

No chemicals in this material are subject to Section 311/312 of SARA.

### Massachusetts Right To Know

Limestone and gypsum are listed by the Massachusetts Right to Know Act.

### New Jersey Right To Know

Limestone and gypsum are listed by the New Jersey Right to Know Act.

### Pennsylvania Right To Know

Limestone and gypsum are listed by the Pennsylvania Right to Know Act.

### Rhode Island Right To Know

Limestone and gypsum are listed by the Rhode Island Right to Know Act.

### California Proposition 65

No chemicals in this material are known to cause cancer, birth defects, or any other reproductive harm according to the State of California.

## 16. OTHER INFORMATION

No data is available, per 29 CFR 1910.1200(d)(b); health hazards are based upon all of the components which make up the mixture.

The above information is believed to be correct, but is not purported to be all-inclusive and should only be used as a guide. Because data, safety standards, and regulatory inputs are subject to change, no warranty, guarantee, or representation with respect to the completeness or continuing accuracy of the information contained in this document is made. The user of this product must decide what safety measures are necessary to safely use this product; the conditions of handling and use, or misuse, are beyond the control of Encap, LLC. The user is also responsible to determine its environmental regulatory compliance obligations under any applicable federal or state laws.

### MSDS Preparation History

#### Original Preparer

Sep-19 Encap LLC staff

#### Updates or Revisions

Update (U) or Revision (R)	Update or Revision Number	Date	Preparer
R	1	10/9/2019	Encap LLC Staff
R	1.1	10/21/2019	Encap LLC Staff
R	1.2	11/4/2019	Encap LLC Staff