

# **Safety Data Sheet**

#### PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fast Acting Sulfur

Formula: Calcium Sulfate Dihydrite + Sulfur + Bentonite + Lingosulfonate + Anionic Polyacrylamide

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CAS No · N/A Recommended Use: Fertilizer

Company Identification: Encap, LLC

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## 2. HAZARDS IDENTIFICATION

#### **HMIS Classification**

Health Hazard: Chronic Health Hazard: FIRE Flammability: REACTIVITY Physical Hazards: PPE Personal Protection: (Safety glasses, gloves, and dust respirator) NFPA Rating Health Hazard: Fire:

Reactivity Hazard: 0 Special Hazard: None



# GHS Labeling

Symbol: Exclamation mark Signal Word: Warning



H315 Causes skin irritation H320 Causes eye irritation May cause respiratory irritation H335 May be harmful if swallowed H303

**Precautionary Statements:** Avoid breathing dust

Hazards Not Otherwise Classified:

#### **OSHA Hazards**

No known OSHA hazards

#### **Target Organs**

Skin, eyes, and respiratory system.

# **Potential Immediate Health Effects**

Inhalation: May cause respiratory tract irritation. Coughing, sneezing, or shortness of breath may occur following

exposures in excess of exposure limits.

Skin: May cause skin irritation. Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation, disorder/damage. Intestinal

obstruction may occur if the material hardens.

## 3. COMPOSITION

Chemical Identity: Calcium sulfate dihydrate 51.5%

Common Name: Gypsum

CAS No.: 10101-41-4

Chemical Identity: Sulfur 42.2%

Common Name: Sulfur

CAS No.: 7704-34-9

Chemical Identity: Bentonite Clay 4.5%

Common Name: Bentonite Clay

CAS No.: 1302-78-9

Chemical Identity: Lignosulfonate 1.0%

Common Name: Lignosulfonate CAS No.: 8061-52-7

Chemical Identity: Anionic Polyacrylamide

Common Name: Anionic Polyacrylamide

CAS No.: 9003-05-8

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0.8%

#### 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. Get 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.

Get medical attention if needed.

#### INHALATION:

Symptoms: May cause respiratory tract irritation. Coughing, sneezing, or shortness of breath may occur following exposures in excess of exposure limits.

Fresh air. If a person breathes in large amounts of this product, move to fresh air at once. If not breathing, give artificial respiration. Get medical attention if needed.

#### INGESTION:

Symptoms: May be harmful if swallowed. May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may occur if the material hardens.

Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

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

#### **Unsuitable Extinguishing Media**

Hoses and extinguishers with pressure streams should be avoided where solid sulfur is dusty or where it may create a further hazard by raising more dust clouds.

#### Special Protective Equipment for Fire-Fighters

Self-contained breathing apparatus and full protective clothing. Masks approved for use in acid-gas atmosphere should be used. Fumes from unprotected sulfur fires should be avoided by approaching from upwind side. Note: Aqueous solutions or powders may render surfaces slippery.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation.

#### **Environmental Precautions**

Prevent product from entering drains.

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

Do not flush with water. Sweep spilled substance into containers; avoid generating dust. Reuse if not contaminated. After cleaning flush remaining traces with water.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Eating, drinking, and smoking should be prohibited in areas where this material is handled or stored. Do not ingest and avoid contact with skin and eyes. Avoid breathing in dust. Wear appropriate respirator when ventilation is inadequate.

#### **Recommended Conditions for Storage**

Keep away from moisture. Solid becomes corrosive to metals when stored wet. Store in a cool, dry, well ventilated location. Do not store near aluminum (at high temperatures), diazomethane, oxidizing agents or other incompatible materials.

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## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Limits			
	CAS No.	ACGIH TLV	OSHA/PEL
Calcium sulfate dihydrate (gypsum)	10101-41-4	10 mg/m <sub>3</sub>	15 mg/m <sub>3</sub> (total), 5mg/m <sub>3</sub> (respirable)

7704-34-9 Sulfur Compounds none none Bentonite Clay 1302-78-9 none none Anionic Polyacrylamide 9003-05-8 none none Lignosulfonate 8061-52-7 none none

#### **Engineering Controls**

Local exhaust ventilation recommended. Running water should be available in case material gets in eyes. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Wash clothing before reusing.

#### Personal Protective Equipment

Respiratory Protection

A NIOSH (US) or CEN (EU) approved particulate respirator is recommended where total dust concentration exceeds 10 mg/m<sup>3</sup>. Avoid breathing dust.

None required for normal use. If prolonged or repeated use irritates skin, use nitrile gloves.

#### Skin and Body Protection

Long sleeves or lab coat and long pants are recommended.

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Material: Fertilizer

Appearance: Yellow and tan granules

Odor: Mineral Odor threshold: Unknown

pH: Not Available

Melting Point: 119°C (246°F) - Sulfur + Bentonite Clay

Freezing Point: Unknown

Evaporation Rate: Not Applicable Flammability: Not Flammable

Explosion Limits: LEL = 35 g/m3 - Sulfur + Bentonite Clay

Vapor Pressure: Unknown

Vapor Density: > 1 - Sulfur + Bentonite Clay Specific Gravity: ~2.3 g/ml Solubility in Water: Slightly soluble

Partition coefficient: Not Applicable

Auto-ignition temp.: 188°C (370°F) - Sulfur + Bentonite Clay

Decomposition temp.: Unknown

Viscosity: Not Applicable

Other: Boiling Point = 444°C (832°F) - Sulfur + Bentonite Clay

# 10. STABILITY AND REACTIVITY

**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: Oxidizing agents, aluminum (at high temperatures), diazomethane, heat, sparks, open

flame, static electricity, or any other potential ignition source.

**Hazardous Decomposition Products:** 

Thermal decomposition may produce: sulfur dioxide, calcium oxide, nitrogen oxides, carbon oxides, sulfur oxides, and hydrogen cyanide.

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#### 11. TOXICOLOGICAL INFORMATION

#### Likely Routes of Exposure

Eyes, skin, ingestion and inhalation.

#### Potential Health Effects

Inhalation: May cause respiratory tract irritation. Coughing, sneezing, or shortness of breath may occur following exposures in

excess of exposure limits.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation, disorder/damage. Intestinal obstruction may

occur if the material hardens. **Skin:** May cause skin irritation. **Eyes:** May cause eye irritation.

#### **Acute Toxicity**

No data available.

#### 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

No data available

#### 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

Not applicable.

#### Persistence and Degradability

No data available

## Bioaccumulative Potential

Not applicable.

### Mobility

Water contaminating

#### PBT and vPvB Assessment

Not applicable.

#### Other Adverse Effects

No data available.

# 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. For landfill disposal, mix with limestone three times the weight of sulfur.

## 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.

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#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

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

#### DSL Status

Sulfur is on the Canadian Domestic Substance List (DSL) list.

#### 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

Gypsum and sulfur are listed by the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Gypsum and sulfur are listed by the Pennsylvania Right to Know Act.

#### New Jersey Right To Know

Gypsum and sulfur are listed by the New Jersey Right to Know Act.

#### California Proposition 65

This product contains a chemical known to the State of California to cause cancer: Residual Acrylamide.

# **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.

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