

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 be harmful if absorbed through skin. May cause skin irritation. Wash skin immediately rinse skin with plenty of water. Cover irritated skin with emollient. 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. Conjunctivitis, chronic rhinitis, laryngitis, pharyngitis, impaired sense of smell and taste, bleeding from the nose, and reactions of tracheal and bronchial membranes are possible with acute exposure.

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. Weakness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse are possible if large amounts are ingested.

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, CO2 or dry chemical.

Unsuitable Extinguishing Media

Hoses and extinguishers with pressure streams should be avoided where solid sulphur 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 sulphur 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Exposure Limits CAS No. ACGIH TLV OSHA/PEL Calcium sulfate dihydrate (gypsum) 13397-24-5 10 mg/m₃ 15 mg/m₃ (total), 5mg/m₃ (respirable) 7704-34-9 Sulfur Compounds none none Bentonite Clay (filler) N/A none none Anionic Polyacrylamide Copolymer N/A 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** <u>Respiratory Protection</u> A NIOSH (US) or CEN (EU) approved particulate respirator is recommended where total dust concentration exceeds 10 mg/m³. Avoid breathing dust. Hand Protection 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. Eve Protection 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: Pale green and tan granules Odor: Earthy, sulphur, or mineral Odor threshold: Unknown pH: Not Available Melting Point: 119°C (246°F) - Sulphur + Bentonite Clay Freezing Point: Unknown Evaporation Rate: Not Applicable Flammability: Not Flammable Explosion Limits: LEL = 35 g/m³ - Sulphur + Bentonite Clay Vapor Pressure: Unknown Vapor Density: > 1 - Sulphur + Bentonite Clay Specific Gravity: ~2.3 g/ml Solubility in Water: Slightly soluble Partition coefficient: Not Applicable Auto-ignition temp.: 188°C (370°F) - Sulphur + Bentonite Clay Decomposition temp.: Unknown Viscosity: Not Applicable Other: Boiling Point = 444°C (832°F) - Sulphur + 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: sulphur dioxide, calcium oxide, nitrogen oxides, carbon oxides, sulfur oxides, and hydrogen cyanide.

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 excess of exposure limits. Conjunctivitis, chronic rhinitis, laryngitis, pharyngitis, impaired sense of sobleeding from the nose, and reactions of tracheal and bronchial membranes are possible with acute Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation, disorder/damage. Intestina occur if the material hardens. Weakness, abdominal cramps, vomiting, bloody diarrhea, weakness, collapse are possible if large amounts are ingested. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation. Eyes: May cause eye irritation. Reproductive Toxicity No data available. Germ Cell Mutagenicity	smell and taste e exposure. al obstruction r
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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. IARC = International Agency for Research on Cancer 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. ACGIH = American Conference of Industrial Hygienist OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or or potential carcinogen by OSHA. NTP = National Toxicology Program	sts
ECOLOGICAL INFORMATION	
Toxicity Mobility LC50 - fathead minnows - 317 mg/L (anionic polyacrylamide emulsion) Water contaminating. LC50/72-hr - Algae - 100 mg/L (anionic polyacrylamide emulsion) Water contaminating. LC50 - Daphnia - 1,070 mg/L (anionic polyacrylamide emulsion) Hermitian and the second	
Persistence and Degradability PBT and vPvB Assessment No data available. Not applicable.	ent
Bioaccumulative Potential Other Adverse Effects Not applicable. No data available.	
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 landfill disposal, mix with limestone three times the weight of sulphur.	regulations. F
IRANSPORT INFORMATION	
DOT (US) This material is not regulated by the DOT.	

ΙΑΤΑ

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

Sulphur 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 sulphur are listed by the Massachusetts Right to Know Act.

Pennsylvania Right To Know

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

New Jersey Right To Know

Gypsum and sulphur 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.