



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Calcium Sulfate**

PRODUCT NO: 1392

CAS NO: 7778-18-9

SYNONYMS: Karsenite, Muriacite, Anhydrous sulfate of lime, anhydrous gypsum, drierite, plaster of paris

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

HMIS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: May cause skin irritation.

SKIN CONTACT: May cause eye irritation.

INHALATION: May cause respiratory tract irritation.

INGESTION: May cause irritation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: CaSO_4

Molecular Weight: 136.14

CHEMICAL NAME	CAS#	%
Calcium Sulfate	7778-18-9	90-100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product if not flammable

AUTO IGNITION TEMPERATURE: None

EXPLOSION LIMITS: None

EXTINGUISHING MEDIUM: Use firefighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides and calcium oxide

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Ensure adequate ventilation. Wear personal protective equipment. Further processing of solid materials may result in the formation of combustible dusts.

CONDITIONS FOR SAFE STORAGE: Store material in a cool, dry, and well-ventilated area. Hygroscopic. Store under inert gas. Store away from water, moisture, and oxidizing agents.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Calcium Sulfate	10 mg/m ³	TWA	ACGIH
	5 mg/m ³	TWA	OSHA
	15 mg/m ³	TWA	OSHA
	5 mg/m ³	TWA	NIOSH
	10 mg/m ³	TWA	NIOSH

TWA: Time Weighted Average over 8 hours of work.

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: Respirator selection should be based on anticipated exposure levels.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

ODOR: None

MOLECULAR WEIGHT: 136.14

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

MELTING POINT: 1450° C
BOILING POINT: No data
SPECIFIC GRAVITY 2.96
VAPOR PRESSURE: No data
SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Avoid moisture
INCOMPATIBILITY: Oxidizing agents
DECOMPOSITION PRODUCTS: Sulfur oxides and calcium oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – Rat – female - > 1,581 mg/kg. LC50 Inhalation – Rat – male and female – 4 h - > 3.26 mg/l.
CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
MUTAGENIC EFFECTS: No data
TETRATOGENIC EFFECTS: No data
RTECS DATA: WS6920000

Repeated dose toxicity – Rat – male – Gavage – No observed adverse effect level – 79 mg/kg – Lowest observe adverse effect level – 237 mg/kg.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

TOXICITY TO FISH: LC50-Lepomis macrochirus – 2,980 mg/l – 96 h.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA Inventory
SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA (TITLE 313): Title compound not listed
MASSACHUSETTS RIGHT TO KNOW: Calcium sulfate
PENNSYLVANIA RIGHT TO KNOW: Calcium sulfate
NEW JERSEY RIGHT TO KNOW: Calcium sulfate
CALIFORNIA PROP. 65: Not listed

SECTION 16 OTHER INFORMATION

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SDS DEPT.