

FIRE	= 0	2 = Moderate
REACTIVITY	= 0	3 = High
CONTACT	= 1	4 = Extreme

SECTION 4 REACTIVITY DATA

Stability: Stable

Conditions to Avoid (Instability): Keep from heat sources, sparks, and open flames.

Materials to Avoid (Incompatibility): Charcoal, halogens, ammonia compounds, oxidizing agents react violently. Corrosive to copper and copper alloys. Damp sulfur will corrode steel.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Oxides of sulfur gasses produced by burning sulfur.

SECTION 5 HEALTH HAZARDS

Sulfur is essentially non-toxic either through ingestion, inhalation, skin or eye contact. Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur.

◀ **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Nose or throat irritation, coughing, chest discomfort, asthma, difficulty breathing, nausea, vomiting, stinging eye irritation, skin irritation, hives.

◀ **EMERGENCY AND FIRST AID:**

SKIN CONTACT:

No adverse effects. Skin irritation may be aggravated in persons with existing skin lesions. Wash exposed clothing separately before reuse.

First Aid: Wash skin with plenty of mild soap and water.

EYE CONTACT:

Sulfur dust is an eye irritant. Avoid contact with eyes, especially contact wearers. Wear safety glasses. **First Aid:** In case of contact, immediately flush eyes with plenty of water for a minimum of fifteen minutes. Hold upper and lower lids apart to insure rinsing of the entire eye surface and lids. Do not use boric acid to rinse with; sulfur is an acid irritant. FOR SEVERE IRRITATION, GET MEDICAL ATTENTION, preferably an ophthalmologist.

INHALATION:

Prolonged inhalation may cause irritation of the respiratory tract. Breathing of dust may aggravate asthma and other pulmonary diseases. Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur dust. Maintain adequate ventilation in area where dust is present. Wear dust masks and use NIOSH/MSHA approved dust respirator if airborne concentrations exceed exposure limits. **First Aid:** Move patient to fresh air. Watch for signs of allergic reaction. Use a bronchodilator inhaler if directed by asthma patient. Keep victim warm and quiet. If not breathing, clear airway and start mouth-to-mouth resuscitation. If heart has stopped beating, start cardiopulmonary resuscitation (CPR). GET MEDICAL ATTENTION.

INGESTION:

Ingested sulfur is converted to sulfides in the gastrointestinal tract, and ingestion of 10 to 20 grams has caused irritation of the GI tract and renal injury. Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur. Swallowing large amounts may cause nausea and vomiting. Do not eat sulfur. **First Aid:** For large amounts ingested, if the victim is conscious and alert, give two or more glasses of water to drink. If available, give one tablespoon of Syrup of Ipecac to induce vomiting. If vomiting does occur, give fluids again. If vomiting has not occurred in twenty minutes, the same dose of Syrup of Ipecac may be repeated one additional time. Alternatively, vomiting may be induced by touching the back of the throat with a finger. Do not give anything by mouth to an unconscious or convulsing person. GET MEDICAL ATTENTION.

EXPOSURE LIMITS:

No exposure limits have been established.

TOXICOLOGY:

Oral LD₅₀ (Rats):>5050 mg/kg body weight

Dermal LD₅₀ (Rats):>2020 mg/kg body weight

Inhalation @ 90% LC₅₀ (Rats):>5.49 mg/L air concentration

Skin Effects (Rabbits): Slightly irritating

Eye Effects (Rabbits): Minimal irritation in non-washed eyes

CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY:

This product does not contain any ingredient designated by NTP, IARC, or OSHA as a probable human carcinogen.

SECTION 6 PRECAUTIONS FOR SAFE HANDLING AND USE

STORAGE:

Containers should be stored in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from flammable materials, sources of heat, flame and sparks. Separate from chlorates, nitrates and other oxidizing agents. Exercise due caution to prevent damage to or leakage from container.

☛ **EXPLOSION HAZARD:**

Avoid any conditions that might tend to create a dust explosion. Be careful not to create dust. Maintain good housekeeping practices to minimize dust build-up and dispersion. Eliminate sources of ignition. Keep away from heat, sparks and flames. Use nonferrous tools to reduce sparking. Sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.

☛ **SMALL or LARGE SPILLS:**

No flares or flames in area. No smoking. Danger of dust explosion near sparks. Cover spill with absorbent material such as clay or sweeping compound. Sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking. Place sweepings in an appropriate chemical waste container for reclaiming or disposal in an approved facility. Wash spill site after clean up is complete. Do not allow runoff to enter lakes or waterways. Absorb waste material and dispose of in method consistent with local environmental regulations. Wear protective clothing during clean up: safety glasses, rubber gloves, impervious clothing, dust mask or respirator.

SECTION 7 PROTECTIVE EQUIPMENT

WORK AREA:

Protective equipment should be used during the following procedures:

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Any situation that may result in hazardous exposure.

Maintain adequate ventilation and wear a respirator or a dust mask to prevent inhalation. Wear suitable, protective clothing and safety glasses to prevent skin and eye irritation from dust. Maintain a sink, safety shower and eyewash fountain in the work area. Wash skin thoroughly after handling and before eating or smoking. Wash contaminated clothing separately before reuse.

SECTION 8 DOT AND REGULATORY INFORMATION

TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number 7704-34-9.

CERCLA:

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). If this product is accidentally spilled, it is not subject to any special reporting. We recommend that you contact state and local authorities to determine if there are other local reporting requirements.

SARA TITLE III:

Superfund Amendments and Reauthorization Act, Title III, Sections 311/312: Hazard Category: Delayed Health. Section 313: None. Section 302: None.

RCRA:

Resource Conservation and Recovery Act: not subject to reporting because sulfur is not identified as a hazardous waste.

DOT DOMESTIC:

Shipping Name: Sulfur Dispersion

Hazard Class: Not regulated

ID Number: None

Packing Group: Not applicable

Label: None required

Placard: None required

Hazardous Substance/Rq: Not Applicable

This product is not a Marine Pollutant as defined in 40 CFR part 172.

FOR ADDITIONAL INFORMATION, CONTACT YOUR TECHNICAL SALES REPRESENTATIVE. FOR ADDITIONAL HEALTH & SAFETY INFORMATION, CALL BAINBRIDGE CHEMICAL CORPORATION AT 229-244-0000.

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