

Report Date 14-Sep-17

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1. Identification

Product Name : WETTABLE SULPHUR
Synonyms : Agricultural Sulfur

Product Use : Fungicide

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

2. Hazard Identification





Signal Word : Warning

Skin Irritation: Causes skin irritation **Eye Irritation**: Causes eye irritation

Acute Toxicity Oral : LD50 >2,500 mg/kg (rat) (acute toxicity estimate)
Acute Toxicity Dermal : >,1222 mg/kg (rabbit) (acute toxicity estimate)

Hazard Categories: Oral/Dermal/Inhalation Tox-5/4/5; Eye/Skin Irr-2B/2; Flammable Solid-2;

Corrosive to metals-1

Hazard Statement: May be harmful if swallowed

Harmful in contact with skin
May be harmful if inhaled
Causes eye irritation
Causes skin irritation
Flammable solids

May be corrosive to metals

3. Composition / Information on Ingredients

Component
SulphurCAS Number
7704-34-9Weight %
90.00Inert IngredientsNon-hazardous10.00

4. First Aid Measures

Eye: Immediately flush eyes with plenty of water for 15 minutes, while holding upper and lower lid apart to ensure rinsing of entire eye surface and lids. Do not use boric acid. For severe irritation, seek medical attention, preferably with an ophthalmologist.

Skin: Wash skin thoroughly with mild soap and water. Wash exposed clothing

separately before reuse.

Inhalation: Move 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, call 911 or an ambulance and give artificial respiration. Seek medical

attention.

Ingestion: Seek medical attention. Induce vomiting. If vomiting does not occur, give fluids

again. If vomiting has not occurred within 20 minutes, administer an additional dose of emetic. Do not give anything by mouth unconscious or convulsing.



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Attention and Special Treatment Needed

Indication of Immediate Medical : Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur.

Fire Fighting Measures

Extinguishing Media: Use water fog, spray or regular foam. Do not use a direct stream of water as

this could create sulfur dust clouds and cause an explosion or could move

burning sulfur to adjacent areas.

Specific Hazards Arising from the Emits sulfur oxide gases. Fire will rekindle until mass is cooled below 310 Deg.

F. Cool surrounding areas with water fog to prevent re-igniting. Sulfur dust is highly flammable. Suspended in air, it will ignite by friction, static electricity,

heat, etc.

Chemical

Special Fire Fight Proc Wear self-contained breathing apparatus and full protective clothing. Fire

fighters exposed to contaminated smoke should be immediately relieved and

checked for symptoms of exposure to toxic gases.

Accidental Release Measures

Personal Precautions: Avoid getting dust in eyes. Isolate spills or leak areas. Eliminate all sources of

ignition, such as flares, sparks or flames, in the immediate area. No smoking.

Ventilate closed spaces before entering.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Use NIOSH-approved dust respirator if airborne concentrations exceed exposure limits. Eyewash and emergency shower should be available in

Emergency Procedures

: Do not allow runoff to enter lakes or waterways. Methods and Materials for

: For minor spills from torn bags or ruptured containers, repair container, collect spilled material and place in a suitable container. Avoid creating dust. Gently **Containment and Cleanup**

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

cleanup is complete.

7. Handling and Storage

Precautions for Safe Handling : All handling and conveying equipment should be properly grounded and

bonded. Be careful not to create dust. Avoid any conditions that might tend to create a dust explosion. 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, when available, to reduce sparking.

Maintain adequate ventilation in all areas.

Conditions for Safe Storage : Containers should be stored in a cool, dry, well-ventilated area. Keep container

tightly closed. Store away from flammable materials, sources of heat, flames and sparks. Separate from chlorates, nitrates and other oxidizing agents. Exercise due caution to prevent damage to or leakage from containers.

Exposure Controls / Personal Protection

TLV/PEL: No TLV or PEL established for sulfur. For respirable dust not otherwise

regulated, OSHA has established a PEL of 5 mg/m3.

Appropriate Engineering Controls: Maintain adequate ventilation in all areas.



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Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Use NIOSH-approved dust respirator if airborne concentrations exceed exposure limits. Eyewash and emergency shower should be available in

work area.

9. Physical and Chemical Properties

Odor/Appearance: Solid yellow powder; faint odor of rotten eggs.

Flash Point, °F : 207 Deg. C. (closed cup)

Boiling Point, °F : 832 Deg. F.

Melting Point(Freezing point), °C : 244 Deg. F. (melting point) Vapor Pressure, mm Hg @ 20 °C : 1 mmHg @ 183.8 Deg. C.

Vapor Density: No data available

Solubility in Water : Insoluble

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 33-80 lbs/cu.ft. (powder)

Evaporation Rate(Butyl Acetate = : No data available

1)

Octanol/Water Partition : No information found

Coefficient

pH: No data available

Flammable Limits (approximate : UEL=6.38% (v); LEL=0.17% (v)

volume % in air)

Auto-ignition Temperature : 464 Degrees F.

Decomposition temperature : Does not decompose

10. Stability and Reactivity

Reactivity: Oxidizing agents may react violently.

Chemical Stability: Stable

Hazardous Decomposition : Oxides of sulfur gases produced by burning sulfur.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid : Avoid dust formation; keep from heat sources, sparks, and open flames. Avoid

exposure to air or moisture.

Incompatible Materials : Oxidizing agents, copper, copper alloys, steel, chlorates, nitrates and acids.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >2,500 mg/kg (rat)(acute toxicity estimate). May be harmful if swallowed.

Acute Toxicity (Dermal LD50) : >1,222 mg/kg (rabbit)(acute toxicity estimate). Harmful in contact with skin.

Acute Toxicity Inhalation LC50: 6.9 mg/L (rat)(acute toxicity estimate). May be harmful if inhaled.

Likely Routes of Exposure: Skin absorption, eye, inhalation, ingestion

Skin Irritation : Causes skin irritation.

Eye Irritation : Causes eye irritation.

Skin Sensitization : No information available

Carcinogenic: Not listed by IARC, NTP or OSHA.

Chronic Effects : No information found Other Hazards : No information found

12. Ecological Information

Ecotoxicity: No data available



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Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effects : No data available

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT if shipped in non-bulk packages. Regulated if shipped by

air (IATA) or water (IMDG).

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards: Not a Marine Pollutant per Appendix B to 49 CFR 172.101.

Transport in Bulk : If shipped by ground (DOT) in bulk package, ship as: NA1350, Sulfur, 9, PG III

"ERG # 171"

Special Precautions for : If shipped by air (IATA) or water (IMDG), ship as: UN1350, Sulfur, 4.1, PG III

Transportation

Freight Classification: Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

15. Regulatory Information

National Fire Protection : Association Rating

Health: 2 Fire: 2 Reactivity: 1

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:

Fire: Y Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on

the pesticide label:

EPA Registration Number: 5905-289 **FIFRA Signal Word**: Caution

FIFRA Label Statement
FIFRA Label Statement
Causes moderate eye irritation.
FIFRA Label Statement
Harmful if absorbed through skin.

Avoid contact with eyes, skin or contact.

FIFRA Label Statement : Avoid contact with eyes, skin or clothing. FIFRA Label Statement : Wash thoroughly with soap after handling.

FIFRA Label Statement : No additional label statements. FIFRA Label Statement : No additional label statements.



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16. Other Information

Data of Preparation/Revision : 14-September-2017