



Safety Data Sheet

Report Date 01-Dec-16

Page 1 of 4

1. Identification

Product Name : LIQUID SULFUR SIX
Synonyms : None
Product Use : Acaricide, Fungicide, Miticide, Insecticide
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 mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50>5,050 mg/kg (rat)
Acute Toxicity Dermal : LD50>2,020 mg/kg (rabbits)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
Harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Sulfur	7704-34-9	52.00
Inert ingredients	Proprietary	48.00

4. First Aid Measures

Eye : Hold eyelid open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor immediately for treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor immediately for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything if unconscious/convulsing.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures



Safety Data Sheet

Report Date 01-Dec-16

Page 2 of 4

- Extinguishing Media** : Use foam, dry chemical, carbon dioxide or water spray.
Specific Hazards Arising from the Chemical : Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion. Emits oxides of sulfur.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Isolate hazard area. Keep unnecessary and unprotected personnel from entering spill area.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use dust/mist filtering respirator (NIOSH approval number TC-21C). Eyewash and emergency shower should be available in work area.
Emergency Procedures : Do not contaminate waterways, drains or sewers with spilled product.
Methods and Materials for Containment and Cleanup : Absorb small spills on sand, vermiculite or other inert absorbent. Collect and place in appropriate container for disposal. For large spills, dike using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, then collect for disposal. After removal, flush contaminated area with thoroughly with water. Absorb wash water with inert absorbent, collect and place in container with material for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Use only in a well-ventilated area.
Conditions for Safe Storage : Keep away from food, feed and drinking water. Store in a well-ventilated, dry place. Keep away from heat and other sources of ignition.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established for elemental sulfur. Sulfur Dioxide PEL=5 mg/m³; TLV=0.25 ppm.
Appropriate Engineering Controls : Proper ventilation is required when handling.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. When needed, use a dust/mist filtering respirator (NIOSH approval number TC-21C). Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Thick, yellow liquid with slight rotten egg odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : >90 Degrees C.
Melting Point(Freezing point), °C : <35 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : No information found
Vapor Density : No information found
Solubility in Water : Dispersible
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.4
Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : No information found
pH : No information found



Safety Data Sheet

Report Date 01-Dec-16

Page 3 of 4

Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : >450 Degrees F.
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Oxides of sulfur due to thermal decomposition.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid excessive temperatures and high moisture conditions for prolonged periods.
Incompatible Materials : Alkaline conditions and materials, strong oxidizing materials. Corrosive to steel.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,050 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,020 mg/kg (rabbit). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.17 mg/L/4 hour (rats exposed to aerosol). Harmful if inhaled.
Likely Routes of Exposure : Inhalation, skin, eyes, ingestion
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a skin sensitizer (Guinea pigs).
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No information found
Other Hazards : No information found

12. Ecological Information

Ecotoxicity : Non-toxic in fish, avian and bee studies. Do not apply directly to water or areas where surface water is present.
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from the areas treated. Do not apply where runoff is likely to occur.

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 (per 49 CFR 172.102, Special Provision 30).
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None



Safety Data Sheet

Report Date 01-Dec-16

Page 4 of 4

Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : Do not ship in steel containers.
Freight Classification : Pesticides, NOI, Fungicides or Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 2 Reactivity: 0
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: N
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 : 5905-437

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

FIFRA Label Statement : No additional label statements.

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16. Other Information

Data of Preparation/Revision :