

MATERIAL SAFETY DATA SHEET

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E-Mail: www.nufarm.com In Case of Emergency, Call CHEMTREC: 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: Micro-Sulf® CAS No.: 7704-34-9
EPA Signal Word: Caution EPA Reg. No. 55146-75

Active Ingredient (%):
Chemical Name:
Chemical Class:

Caution
Sulfur 80%
Micronized Sulfur
Fungicide

2. COMPOSITION/INFORMATION ON INGREDIENTS

ACGIH OSHA NTP/IARC/OSHA
Material PEL % by weight Other TLV Carcinogen

Sulfur 80% Not Established Not Established No

3. HAZARDS IDENTIFICATION

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Symptoms of Acute Exposure

Exposure may result in skin irritation. Ingestion may cause nausea, vomiting, headache, and diarrhea.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Brown Powder

Odor: Sulfur

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, Oxides of sulfur and hydrogen sulfide. This product is a combustible solid. Sulfur dust in air can be ignited and explode.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never

give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the

entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of

a physician. Get medical attention if irritation persists.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any

medicating agents except on the advice of a physician. Remove contaminated clothing and

decontaminate prior to use. Get medical attention if irritation persists.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None Known

5. FIRE FIGHTING MEASURES

Flash Point & Method: Not Applicable Flammable Limits: Not Applicable Autoignition Temperature: Not Available Flammability: Not Flammable

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, Oxides of sulfur and hydrogen sulfide. This product is a combustible solid. Sulfur dust in air can be ignited and explode.

In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential [personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved dust or pesticide respirator with dust prefilters. For small spills, sweep up, keeping dust to a minimum and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a

potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head

covering.

Inhalation: To avoid breathing dust, wear a NIOSH-approved dust or pesticide respirator with dust prefilters.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 1.00E+00 mmHG @ 184°C

Density: 0.80 g/cc @ 25°C
Solubility in Water: Not Available
pH: Not Available
Melting Point: 119°C
Boiling Point: Not Applicable
Odor: Sulfur

Odor: Sulfur Color: Brown Physical State: Powder

10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY

General:

Stability: Stable
Incompatible Materials: None Known
Conditions to Avoid: None Known
Hazardous Decomposition: None Known
Hazardous Polymerization: None Known

11. TOXICOLOGICAL INFORMATION

ACUTE

Ingestion: <u>Practically non-toxic</u>

Oral LD50(Rat): >5,000 mg/kg body weight

Dermal: Slightly toxic

Dermal LD50 (Rabbit): >2,000 mg/kg body weight

Inhalation: <u>Practically non-toxic</u>

Inhalation LC50 (Rat): 9.23 mg/l air - 4 hours

Eye Contact: Non-irritating (Rabbit)
Skin Contact:: Mildly irritating (Rabbit)
Skin Sensitization:: Not a sensitizer (Guinea Pig)

Mutagenic Potential

Sulfur: None Observed

Reproductive Hazard Potential

Sulfur: None Observed

Chronic/Subchronic Toxicity Studies

Sulfur: Body weight depression, decreased blood sulfhydelyl contents, decreased serum

peroxidase levels and increased serum albumin (rats).

Chronic inhalation results in eye and respiratory disturbances, bronchitis and sinus

effects (humans).

Carcinogenic Potential

Sulfur: None observed

Other Toxicity Information

Not Available

Toxicity of Other Components

Not Available

Target Organs:

Active Ingredients

Sulfur Respiratory System and Eyes

Inert Ingredients
Not Available

12. ECOLOGICAL INFORMATION

Summary of Effects

Sulfur: Not Available

Eco-Acute Toxicity

Sulfur: Not Available

Eco-Chronic Toxicity

Sulfur: Not Available

Environmental Fate

Sulfur: Not Available

13. DISPOSAL CONSIDERATION

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and resides according to local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT Classification

Not Applicable; No Label or Placard Required

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

International Transportation

Not Applicable

HAZARD CLASSIFICATION (0-minimal, I-slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH- 2 FIRE- 1 REACTIVITY- 0

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard

Chronic Heath Hazard

Section 313 chemicals: Not Applicable

Proposition 65 Not Applicable

CERCLA Reportable Quantity (RO)

None

RCRA Classification
Not Applicable

TSCA Status Exempt from TSCA

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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