

# RSA MicroTech, LLC

## Material Safety Data Sheet

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:  
CHEMTREC 1-800-424-9300

### Section 1 – Chemical Product and Company Identification

Product Name: **Sul-Preme® Fungicide**

Common Name: 6 lb Emulsified Sulfur

Chemical Description: Emulsified Sulfur

Manufacturer's Name:  
**RSA MicroTech, LLC**

PO Box 64589

St. Paul, MN 55164-0589

Date Prepared: 3-10-05

Emergency Telephone Number:  
**CHEMTREC 1-800-424-9300**

Revision Date: 12-22-05

### Section 2 – Composition Information on Ingredients

Ingredient	%	TLV or PEL
Sulfur (S) CAS 7704-34-9	52	N/A
Proprietary Ingredients	balance	N/A

Derived from elemental sulfur

#### PA HAZARD RATING:

Least		
Slight	1	Health
Moderate	0	Flammability
High	1	Reactivity

### Section 3 – Hazards Identification

**Emergency Overview:** This product may produce toxic Hydrogen Sulfide gas, which may collect in low areas and in the head spaces of tanks and containers. Product may cause oxygen deficiency in enclosed spaces, follow all OSHA regulations pertaining to enclosed space entry.

**CAUTION: Keep out of reach of children.**

**Route(s) of Entry:** Eyes, Inhalation, Skin and Ingestion

#### Health Hazards (*Acute and Chronic*):

**Inhalation:** Inhalation of mist may cause irritation of the mucous membranes of the respiratory tract. This product may produce toxic Hydrogen Sulfide gas, which may collect in low areas and in the head spaces of tanks and containers. Product may cause oxygen deficiency in enclosed spaces, follow all OSHA regulations pertaining to enclosed space entry.

**Eyes:** May cause irritation of the eyes.

**Skin:** Prolonged or repeated exposure may cause skin irritation.

**Ingestion:** May be harmful if swallowed.

**Carcinogenicity**      NTP: Not Listed      IARC: Not Listed      OSHA: Not Listed

#### Medical Conditions Generally Aggravated by Exposure:

None known.

### Section 4 – First Aid Measures

**Inhalation:** Remove person to fresh air and support breathing as needed. Seek medical attention if irritation persists.

**Ingestion:** Induce vomiting in a conscious person. Seek medical attention if irritation persists.

**Eyes:** Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.

**Skin:** Wash the affected area with soap and water. Seek medical attention if skin becomes irritated.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

### **Section 5 – Fire and Explosion Hazard Data**

<b>Flash Point:</b> 405 ° F	<b>Flammable Limits:</b>	<b>LEL:</b> 35 g/M <sup>3</sup>	<b>UEL:</b> 1400 g/M <sup>3</sup>
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**Extinguishing Media:** Water.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing. Smoke and fumes from fire may contain hazardous components.

**Hazardous Combustion Products:** Sulfur Dioxide under fire conditions

**Unusual Fire and Explosion Hazards:** If heated to the extent that all water is evaporated, the sulfur combust and emit toxic fumes. Stay upwind of fire. If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination to water supplies.

### **Section 6 – Accidental Release Measures**

**Small Spills:** Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

**Large Spills:** Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

**Containment:** Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

### **Section 7 – Precautions for Safe Handling and Use**

**Precautions to Be taken in Handling and Storing:** This product may produce Hydrogen Sulfide Gas which may collect in low areas and in the head space of tanks and containers. Store in cool, dry places away from children, feed and food products. Immediately clean up spills that occur during handling or storage. Protect from freezing. Sulfur can be corrosive to aluminum and carbon/galvanized steel.

**Other Precautions:** Consult local, State and Federal regulations pertaining to storage and disposal.

### **Section 8 – Control Measures / Personal Protection**

**Respiratory Protection (*Specify Type*):** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/HIOSH-approved respirator.

**Ventilation: Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

**NOTE: Prevent exposure to head space of containers. Poisonous hydrogen sulfide gas may accumulate in head spaces of tanks and containers.**

**Protective Gloves:** Wear rubber or impervious gloves

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Clothing or Equipment:** Wear appropriate clothing to prevent prolonged or repeated skin contact.

**Work / Hygienic Practices:** Never eat, drink or smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.

### **Section 9 – Physical / Chemical Characteristics**

<b>Physical State:</b>	Liquid / Solid Dispersion	<b>Specific Gravity (water=1)</b>	1.38 (11.5)
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<b>Vapor Pressure (mm Hg.)</b>	17.53 mm Hg @ 20 ° C	<b>Freezing Point</b>	lbs/gal 32 ° F
<b>Vapor Density (AIR=1)</b>	N/A	<b>Boiling Point</b>	212 ° F
<b>Solubility in Water:</b>	Negligible.	<b>pH:</b>	6.5 to 7.5
<b>Appearance and Odor:</b> Pale yellow thick liquid with a slight sulfurous odor (rotten eggs).			

### **Section 10 – Reactivity Data**

**Stability:** Product stable at room temperature in closed containers under normal storage and handling conditions.

**Chemical Incompatibilities:** Hazardous in contact with oxidizing materials, may form explosive mixtures. Corrosive to mild steel

**Conditions to avoid:** Avoid excessive heat.

**Hazardous Decomposition Products:** This product may produce Hydrogen Sulfide gas, which may collect in low areas and in the head space of containers and tanks. When heated, sulfur emits highly toxic fumes of SOx. Other toxic chemicals may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

**Hazardous Polymerization:** Will not occur.

### **Section 11 – Toxicological Information**

**Eye Effects:** May cause irritation

**Chronic Effects:** No unusual chronic effects

**Skin Effects:** May cause irritation

**Carcinogenicity:** Not listed as carcinogenic

**Acute Inhalation Effects:** Not Determined

**Mutagenicity:** Not listed as mutagenic

**Acute Oral Effects:** Not Determined

**Teratogenicity:** Unknown

### **Section 12 – Ecological Information**

**Soil Absorption / Mobility:** Moderately mobile in soil profile.

### **Section 13 – Disposal Considerations**

**Disposal:** Dispose of in an approved landfill or apply at recommended label rates.

**Disposal Regulatory Requirement:** Follow applicable Federal, State and local regulations.

### **Section 14 – Transport Information**

Not regulated by the DOT as a hazardous material. Freight Class: fungicides, N.O.I., other than poison (NMFC item 102120, class 60)

### **Section 15 – Regulatory Information**

**SARA TITLE II HAZARD CATEGORY:**

Immediate: **Yes**

Delayed: **No**

Sudden Release of Pressure: **No**

Fire: **No**

Reactive: **No**

**CERCLA:** None Listed.

**SARA, TITLE III, SECTION 313:** None Listed.

**PROPOSITION 65:** Not Listed.

**FDA:** Sul-Preme 70 meets the requirements for the Food Additive Regulations administered by the Food and Drug Administration in 21 CFR 176.170 and 21 CFR 176.180.

## **Section 16 – Other**

Prepared by: Mike Barry

Reviewed by: Dennis Belau

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