

# MATERIAL SAFETY DATA SHEET

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EMERGENCY (24-HOUR) INFORMATION CALL CHEMTREC (800)424-9300  
EPA NATIONAL RESPONSE CENTER (800)424-8802

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## SECTION I: IDENTIFICATION OF PRODUCT

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**Product Name:** Flowable Sulfur 52%  
**Product Class:** Fertilizer supplement, liquid

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## SECTION II: HAZARDOUS INGREDIENTS

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CHEMICAL	CAS NO.
Sulfur	7704-34-9

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## SECTION III: EMERGENCY/HAZARDS OVERVIEW

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Creamy pale yellow liquid with rotten egg odor. Not a D.O.T. hazardous material.

**HEALTH:** 1    **REACTIVITY:** 0    **FLAMMABILITY:** 0    **ENVIRONMENT:** 1  
( 0=Insignificant   1=Slight   2=Moderate   3=High   4=Extreme )

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## SECTION IV: PHYSICAL AND CHEMICAL DATA

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<b>Boiling Point:</b> Not Available	<b>Freezing Point:</b> Not Available
<b>% Volatile by Weight:</b> Not Available	<b>pH:</b> Not Available
<b>Vapor Density:</b> Not Available	<b>Vapor Pressure (mm Hg):</b> Not Available
<b>Solubility In Water:</b> Disperses to form an emulsion	<b>Evaporation Rate:</b> Not Available
<b>Density:</b> 12 lbs/gal	<b>Viscosity:</b> Not Available
<b>Appearance:</b> Creamy pale yellow liquid	
<b>Odor:</b> Rotten egg odor	
<b>Octanol/Water Partition Coefficient:</b> Not Available	
<b>Saturated Vapor Concentration:</b> Not Available	

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## SECTION V: FIRE AND EXPLOSION DATA

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**Flash Point:** > 405°F

**Test Method:** Not Available

**LEL Flammable Limits:** Not Pertinent

**UEL Flammable Limits:** Not Pertinent

**Autoignition Temperature:** Not Pertinent

**Flammability Classification:** Noncombustible

**Properties that Initiate/Contribute to Intensity of Fire:** None

**Potential for Release of Flammable Vapors:** None

**Potential for Dust Explosion:** None

**Reactions that Release Flammable Gases or Vapors:** Not Known

**Unusual Fire & Explosion Hazards:** If flowable sulfur is allowed to dry and is then pulverized should be treated as sulfur dust. Sulfur is suspended in air ignites easily, and can cause an explosion in confined areas. May be ignited by friction, static electricity, heat sparks, or flames. Toxic gases will form upon combustion. Bulk/solid forms burn only at moderate rate, whereas dust burns with explosive violence.

**Extinguishing Media:** Water spray, fog or foam. Do not use direct water stream.

**Known Hazardous Products of Combustion:** None

**Special Firefighting Procedures:** Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

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## SECTION VI: REACTIVITY DATA

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**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions To Avoid:** Keep from heat sources, sparks, and open flames.

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

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

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## SECTION VII: HEALTH HAZARD DATA

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### EFFECTS OF OVEREXPOSURE / EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Wear chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling. If contact occurs, flush eyes immediately with water for at least 15 minutes. Call a physician if irritation persists.

**Skin:** Wear impervious gloves and clothes. If contact occurs, wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Call a physician if skin becomes irritated.

**Ingestion:** If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a physician or Poison Control Center immediately.

**Respiratory Protection:** Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH- approved dust/mist respirator (3M #8710).

**Inhalation:** If vapors or mist causes irritation or distress, remove to fresh air and call a physician.

**Ventilation:** Recommended but no TLV established.

### ACUTE EFFECTS

**Eyes:** Irritant. May cause redness and/or burning

**Skin:** Mild irritant, especially from prolonged exposure. May cause redness.

**Ingestion:** Harmful if ingested. May cause stomach cramps and/or nausea.

**Inhalation:** None expected but inhalation of aerosol mist may cause mild irritation of nasal mucous membranes.

### SUBCHRONIC EFFECTS

None Known

### CHRONIC EFFECTS

None Known

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## SECTION VIII: SPILL, LEAK, AND DISPOSAL PROCEDURES

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Contain all spills and leaks to prevent discharge into the environment. If spilled, use appropriate absorbent material to absorb the spilled material and flush spilled area with water. Consult local waste regulators for proper disposal.

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## SECTION IX: HANDLING AND STORAGE

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**Storage:** Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store in contact with brass. Do not store near food or feeds. Do not stack pallets more than two (2) high.

**Transfer Equipment:** Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

**Work/Hygienic Practices:** Harmful if swallowed. May cause irritation of eyes, nose, throat, and skin. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling. Do not contaminate feed or food.

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## SECTION X: D.O.T, REGULATORY, AND GENERAL INFORMATION

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**D.O.T. Shipping Description:** Not D.O.T. Regulated

**Other Shipping Information:**

**CERCLA:** None

**SARA TITLE III, Section 313 Toxic Chemicals:** None

**PROPOSITION 65 (CA):** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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