

3/3/2025: File reviewed, more current MSDS/SDS not available. CAS

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sulfur

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10411

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable solids (Category 1). Flammable solid (H228). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Skin corrosion/irritation (Category 2). Causes skin irritation (H315).



Hazard class: Acute toxicity, oral and inhalation (Category 5). May be harmful if swallowed or inhaled (H303+H333).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sulfur	7704-34-9	S	32.06	

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Rinse cautiously with water for several minutes (P351).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IIIB combustible solid.

NFPA Code

Flash point: 207 °C Flammable limits: Lower: 3.3% Upper: 46% Autoignition Temperature: 232 °C

H-2

F-1

Fire and explosion risk in finely divided form. When heated to decomposition, may emit toxic fumes.

R-2

In case of fire: Use a class D fire extinguisher or dry sand for extinction (P370+P378).

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #10. Store with sulfur and phosphorus.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Yellow crystals or powder. Faint odor of rotten eggs.	Boiling point: 444.6 °C
Soluble: Slightly in alcohol and other organic solvents.	Melting point: 119 °C
Insoluble in water.	Specific gravity: 2.06
	Vapor density: 8.9

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with oxidizers and moisture.

Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Irritant.	ORL-RAT LD <sub>50</sub> : 8437 mg/kg
Chronic effects: N.A.	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: N.A.	EYE-HUM: 8 ppm

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Aquatic toxicity: TLm96: 1000 ppm

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Sulfur. Hazard class: 9, Miscellaneous Hazardous. UN number: UN1350

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-722-6).

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**SECTION 16 — OTHER INFORMATION**

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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