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SDS #: 800  
Revision Date: March 15, 2016

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Sulfur 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	R-2

fumes.

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 — HANDLING AND STORAGE

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

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Yellow crystals or powder. Faint odor of rotten eggs.  
Soluble: Slightly in alcohol and other organic solvents. Insoluble in water.

- Boiling point: 444.6 °C
- Melting point: 119 °C
- Specific gravity: 2.06
- Vapor density: 8.9

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers and moisture.  
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant.  
Chronic effects: N.A.  
Target organs: N.A.

- ORL-RAT LD<sub>50</sub>: 8437 mg/kg
- IHL-RAT LC<sub>50</sub>: N.A.
- EYE-HUM: 8 ppm

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic toxicity: TLm96: 1000 ppm

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

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

SECTION 15 — REGULATORY INFORMATION

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

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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