FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #: 800.00

Revision Date: July 13, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sulfur

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

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Sulfur

CAS#: 7704-34-9

SECTION 3 — HAZARDS IDENTIFICATION

Yellow crystals or powder. Faint odor of rotten eggs. Slightly toxic by ingestion and inhalation. Body tissue irritant. Avoid all body tissue contact. FLINN AT-A-GLANCE
Health-1

Flammability-1 Reactivity-0 Exposure-1 Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Induce vomiting. Call a physician or poison control at once.

<u>SECTION 5 — FIRE FIGHTING MEASURES</u>

Combustible solid.	NFPA CODE
Flash point: 207 °C Autoignition Temperature: 232 °C	H-2
Fire and explosion risk in finely divided form. When heated, it will burn and emit highly toxic SO _x fumes.	F-1
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	R-0
SCBA with full facepiece operated in positive pressure mode.	

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. 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

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet Sulfur

MSDS #: 800.00

Revision Date: July 13, 2011

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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

Not in water.

Formula weight: 32.06

Formula: S

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 ORL-RAT LD $_{50}$: 8437 mg/kg Chronic effects: N.A. IHL-RAT LC $_{50}$: N.A. EYE-HUM: 8 ppm

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

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: NA1350 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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