

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 647.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Potassium Persulfate

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

Potassium Persulfate

Synonym: potassium peroxydisulfate

CAS#: 7727-21-1

Section 3 — Hazards Identification

White odorless crystals.

Moderately toxic by ingestion. Irritating to body tissues. Avoid all body tissue contact.

Possible sensitizer and allergen. Strong oxidizer, fire risk when in contact with combustible materials.

FLINN AT-A-GLANCE

Health-2

Flammability-0

Reactivity-3

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

Strong oxidizer. Liberates oxygen at 100 C, fire risk when in contact with organic and combustible materials. When heated to decomposition, emits toxic fumes of SO_x.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

NFPA CODE

None Established

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 #6. Store with bromates and chlorates.

Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag. Use and dispense in a hood.

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 ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 5 mg (S2O8)/m³ (ACGIH)

Section 9 — Physical and Chemical Properties

White odorless crystals.

Solubility: Soluble in water; insoluble in alcohol.

Formula: K₂S₂O₈

Formula Weight: 270.34

Specific Gravity: 2.477

Melting Point: Decomposes below 100 C.

Section 10 — Stability and Reactivity

Avoid heat, dry material decomposes above 100 C. Wet material decomposes at 50 C.

Avoid contact with strong reducers, finely powdered metals, strong bases, alcohols and hydrazine.

Shelf life: Fair to poor.

Section 11 — Toxicological Information

Acute effects: Irritant, possible sensitizer

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: 802 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

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

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method #12a is one option.

Section 14 — Transport Information

Shipping Name: Potassium Persulfate

Hazard Class: 5.1, Oxidizer

UN Number: UN1492

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-781-8), RCRA code D001.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. 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. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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