

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 610.00

Revision Date: May 22, 2001

Section 1 — Chemical Product and Company Identification

Potassium

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.

CAS#: 7440-09-7

Section 3 — Hazards Identification

Soft, silvery metal when fresh. Odorless.

Old potassium may be coated with peroxides which will explode when handled or cut. This substance requires the highest level of care in storage and handling.

Severely corrosive to body tissues. Toxic. Avoid all body tissue contact.

Reacts vigorously with water.

FLINN AT-A-GLANCE

Health-3
Flammability-3
Reactivity-3
Exposure-3
Storage-2

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: Rinse out mouth, give 1 to 2 cups of milk. Do not induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Flammable solid.

Dangerous fire risk; reacts violently with moisture evolving much heat, spattering and flammable hydrogen gas. Very difficult to extinguish a potassium fire. **Fire Fighting Instructions:** Use Class D, Met-L-X, or dry sand as a fire extinguisher. Avoid water contact, violent reaction with water.

Firefighters should wear PPE and SCBA with full facepiece operating in positive mode.

NFPA CODE

H-3
F-3
R-2
No Water

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and water. Coat with mineral oil, carefully pick up and place in a bottle with clean, dry mineral oil. 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 #1. Store with metals and metal hydrides.

Store under oil in a PVC coated glass bottle in a Flinn Chem-Saf can. Keep away from water and handle with dry utensils.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Section 9 — Physical and Chemical Properties

Soft, silvery metal when fresh. Older potassium may be covered with a soft, spongy coating which could be an explosive peroxide.

Solubility: Soluble in liquid ammonia, mercury and aniline.

Formula: K

Formula Weight: 39.0983

Specific Gravity: 0.862

Melting Point: 63.2 C

Section 10 — Stability and Reactivity

Avoid contact with oxidizers, teflon, chlorinated solvents, water, acids.

Shelf life: Poor.

Section 11 — Toxicological Information

Acute effects: Corrosive

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: N.A.

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 #3 is one option.

Section 14 — Transport Information

Shipping Name: Potassium

Hazard Class: 4.3, Dangerous when wet

UN Number: UN2257

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-119-8), RCRA code D001, D002, D003.

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.

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

*Reduce Science Accidents--
Use Flinn Chemicals*

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436