

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 452.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Lithium

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

Lithium

CAS#: 7439-93-2

Section 3 — Hazards Identification

Very soft, silvery metal. Odorless.
Corrosive to body tissues. Avoid all body tissue contact.
Store under mineral oil; reacts violently with water.

FLINN AT-A-GLANCE

Health-1
Flammability-3
Reactivity-3
Exposure-2
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: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Flammable solid. Dangerous fire risk.
Reacts violently with water. When heated to decomposition, emits toxic fumes of LiO₂ and hydroxide.
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-2
R-2

Section 6 — Accidental Release Measures

Cover metal with dry oil (dry kerosene, dry mineral oil, etc.). Return metal to a container and keep covered with dry oil.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.
Always store under dry oil (kerosene or mineral oil). Store in a glass bottle inside a Flinn Saf-Stor can, in a cool dry place. 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.

Section 9 — Physical and Chemical Properties

Very soft, silvery metal. Odorless.

Solubility: Soluble in liquid ammonia. Soluble in water and acids releasing hydrogen gas.

Formula: Li

Formula Weight: 6.94

Specific Gravity: 0.534

Melting Point: 179 C

Boiling Point: 1317 F

Section 10 — Stability and Reactivity

Avoid contact with iron, iron salts, phosphorus, sulfur, oxygen, nickel and its alloys, chlorinated solvents, halogens, react violently with water, heavy metals.

Shelf Life: Indefinite.

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: Lithium

Hazard Class: 4.3, Dangerous when wet

UN Number: UN1415

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (231-102-5), RCRA code D001, 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"

*Improve Student Lab Results--
Use Flinn Chemicals*

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