

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 452.00

Revision Date: April 28, 2011

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 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: Rinse mouth. Give large quantities of water for dilution. 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 LiO_2 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 a 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

Boiling point: 714 °C

Melting point: 179 °C

Specific gravity: 0.534

SECTION 10 — STABILITY AND REACTIVITY

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

Shelf life: Indefinite, if stored properly.

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 review all federal, state and local regulations that may apply, before proceeding.

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

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