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# GHS Safety Data Sheet

SDS No.: LIE01GAEG Date: 2009/06/10 Last updated: 2013/07/24

#### Section 1. Identification of the substance or mixture and of the supplier

#### 1.1 Product Information

### Product name: Lithium stick, Lithium grains, Lithium sheet

Product number:	Purity	Form	Size or Shape(mm)
LIE01GB	99%(2N)up	stick	_
LIE02GB	99%(2N)up	grains	ca.10
LIE01SB	99%(2N)up	Sheet	ca.50x50x t2
_	99%(2N)up	rod	$10\Phi x 25L$ , other size

#### 1.2 Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone: +81-49-284-1511

#### Section 2. Hazards identification

## **GHS** Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosion/irritation: Category 1A-1C Serious eye damage/eye irritation: Category 1 Specific target organ toxicity, single exposure: Category 2	No data available	Substances and mixtures which, in contact with water, emit flammable gases: Category 1 Flammable solids: Not classified Pyrophoric solids: Not classified Self-heating substances and mixtures: Not classified Corrosive to metals: Not classified

GHS Label: FRC







Pictograms or symbols

#### Warning word: DANGER

### Hazard information

In contact with water releases flammable gases which may ignite spontaneously.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause damage to organs

(Respiratory organs)

#### Description of precaution

Do not allow contact with water, because of violent reaction and possible flash fire. Protect from moisture. Handle under inert gas.

Wear protective gloves/protective clothing/eye protection/respiratory rotection/ face protection during handling.

Avoid breathing dust/mist/gas/fume. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.

Take off the contaminated clothing and wash it before reuse

In case of fire: Use <DRY sand, dry chemical, soda ash or lime> for extinction. DO NOT use water or foam. IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep

container tightly closed.

Store locked up

Dispose of contents/ container in accordance with local/national regulations.

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#### Additional hazard information:

In case of fire, liberates toxic gases/ fume.

With respect to additional hazard information, see Section 11.

## Section 3. Composition / information on ingredients

Chemical or common name: Lithium
Chemical formula: Li

Single Substance or Compound: Single substance

 Composition:
 100%

 CAS #:
 7439-93-2

 RTECS#:
 OJ5540000

 TSCA inventory:
 listed

 EINECS:
 2311025

### Section 4. First aid measures

Eye contact: Promptly rinse eyes with plenty of water while lifting the eye lids. Continue to

rinse for at least 15 minutes and get medical attention.

Skin contact: Promptly flush contaminated skin with soap or mild detergent and water. Contact

physician if irritation continues.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

Inhalation: Remove the exposed person immediately and provide fresh air.

Get medical attention.

# Section 5. Fire fighting measures

Extinguishing media:

DRY sand, dry chemical, soda ash or lime

DO NOT use water or foam.

Fire fighting: Contact with water liberates flammable gases.

Self-contained breathing apparatus and full protective clothing should be used, if the

material is involved in fire.

Remove container to safe place if possible.

Depending on the situation, withdraw from area and let fire burn.

## Section 6. Accidental release measures

Personal Precautions:

Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor.

Environmental hazard precaution:

Shut off leak if without risk.

Prevent flow out to river, etc. so as not to badly affect.

Method for containment and cleaning up:

Avoid unnecessary contacts with spills.

DO NOT use water

Indoor leakage: Ventilate as much as possible until the cleaning is completed.

Outdoor leakage: Work from the windward and evacuate the leeward crowd.

Gather up, pack in closed container as much as possible. Carefully wash spill site

with plenty of water after material pick up.

# Section 7. Handling and storage

## Precautions to be taken in handling:

Safe handling: Handle the material in a dry inert gas atmosphere, utilizing glove bag or

glove box.

Handling worker wears suitable protective clothing.

#### Precautions to be taken in storage:

General precautions: Store in a cool, dry place away from incompatible materials.

Keep container or bottle tightly closed.

Keep away from water, moisture and source of heat.

# Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2012): No data available

OSHA (2006): No data available

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent

inhalation.

Protective ware: Wear appropriate NIOSH/MSHA approved respirator, safety goggles,

face shields, protective gloves.

# Section 9. Physical and chemical properties

Color and Form: Metallic silver solid

Chemical formula: Li
Atomic weight: 6.94Melting point: 180.54 °C
Boiling point: 1347 °C

Density:  $0.534 \text{ g/cm}^3$  at  $20 ^{\circ}\text{C}$  (Liquid)  $0.515 \text{ g/cm}^3$  at  $180.5 ^{\circ}\text{C}$  Water solubility: Reacts with water, forming lithium hydroxide and hydrogen. Flammable: Substances which in contact with water emit flammable gases

Oxidation: None

## Section 10. Stability and reactivity

Stability: Stable in closed container.

Reactivity: React with most acids and generates hydrogen.

Violently react with dilute hydrochloric acid, dilute sulfuric acid and

nitric acid.

Slowly react with concentrated sulfuric acid.

React with methanol and ethanol and produce methoxide and ethoxide.

Incompatibility: Iron and Iron salt, ferrate, phosphorus, sulfur, oxygen, nickel and nickel alloy,

chlorinated solvents, halogens, acids and water.

React with heavy metals and explosive mixtures are easily formed.

Hazardous decomposition products.:

Hydrogen, lithium hydroxide. (contact with water)

Lithium oxides (by heating)

# Section 11. Toxicological information

Acute toxicity: GHS: No data available Skin corrosive / irritation: GHS: Category 1A-1C

Causes severe skin burns and eye damage.

Serious eye damage / irritation: GHS: Category 1; Causes severe eye damage.

Respiratory/ skin sensitization: GHS: No data available
Germ cell mutagenicity: GHS: No data available
Carcinogenicity: GHS: No data available
Reproductive toxicity: GHS: No data available

Specific target organ toxicity

-single exposure: GHS: Category 2;

May cause damage to organs (Respiratory organs)

Specific target organ toxicity

-repeated exposure: GHS: No data available Aspiration hazard: GHS: No data available

## Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

 $-acute \ toxicity: \qquad GHS: No \ data \ available \\ -chronic \ toxicity: \qquad GHS: No \ data \ available \\ Hazardous \ the \ ozone \ layer: \qquad GHS: No \ data \ available \\$ 

No Freon or Halon

Fish toxicity: No data available
Degradability: No data available

Bioaccumulative potential: Li biological half-life 2day,

Rate of absorption oral=1.0 Respiratory tract=0.75

Mobility in soil: No data available

## Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed

'Industrial Waste Haulers' for disposal of waste.

# Section 14. Transport information

UN number: 1415 IATA shipping name: Lithium

IATA classification: Hazardous Class 4.3

Substances which in contact with water emit flammable gases.

IATA packing group: I

HS code: 2805.19 Marine pollution: None

## Section 15. Regulatory information

TSCA inventory: listed.

Please refer to any other local / national measures that may be relevant.

#### Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.