

GHS Safety Data Sheet

SDS No. : LIH03XAEG

Date Issued: 2014/09/18

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

1.1 Product Information

Product name: **Li₂CO₃ Lithium carbonate, anhydrous**

| Product number: | Purity | Form | Size (mm) or Shape |
|-----------------|------------|-------|--------------------|
| LIH05XB | 99% (2N) | Solid | — |
| LIH06XB | 99.99%(4N) | Solid | — |

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
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Section 2. Hazards identification

GHS Classification

| Health Hazards | Environmental Hazards | Physical Hazards |
|--|--|---|
| Acute toxicity(Oral) : Category 4 Acute toxicity(Dermal):Not classified Serious eye damage/eye irritation : Category 2B Reproductive toxicity : Category 1A,Additional category Specific target organ toxicity, single exposure: Category 1,3 repeated exposure: Category 1 | Hazardous to the aquatic environment, acute toxicity : Category 2 chronic toxicity : Category 2 | Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified |

GHS Label: C,W,V



Pictograms or symbols

Warning word: **DANGER**

Hazard information

Harmful if swallowed
Causes eye irritation
May damage fertility or the unborn child
May cause harm to breast-fed children
Causes damage to organs (nervous system)
May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure (nervous system, kidney)
Toxic to aquatic life

Description of precaution

Obtain special instructions. Read and understand all safety precautions before handling.
 Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.
 Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.
 Avoid release to the environment and collect spillage.
 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.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 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.

Additional hazard information :

In case of fire, the product may liberate toxic gases/ fume.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

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| Chemical or common name: | Lithium carbonate |
| Chemical formula: | Li ₂ CO ₃ |
| Single Substance or Compound: | Single substance |
| Composition: | 100% |
| CAS #: | 554-13-2 |
| RTECS#: | OJ5800000 |
| TSCA inventory : | listed |
| EINECS: | 2090625 |

Section 4. First aid measures

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| Eye contact: | Promptly wash 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. |
| Inhalation: | Remove the exposed person immediately and provide fresh air. Get medical attention. |
| Ingestion: | Rinse mouth and throat with water. Get medical attention immediately. |

Section 5. Fire fighting measures

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| Extinguishing media: | Use media appropriate for surrounding fire. |
| Fire fighting | This product cannot catch fire. Self-contained breathing apparatus and full protective clothing should be used, if this product is involved in fire. |
| Specific hazards arising from the chemical: | In case of fire, may liberate toxic gases/ fume. |

Section 6. Accidental release measures

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| Personal Precautions: | Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dusts/ fume. |
| Environmental hazard precautions: | Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect. |
| Method for containment and cleaning up: | 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 DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place. |

Section 7. Handling and storage**Precautions to be taken in handling:**

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| Safe handling: | Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. |
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Avoid prolonged or repeated exposure.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2013): 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, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form: Colorless, monoclinic Solid.

Chemical formula: Li₂CO₃

Formula weight: 73.9

Melting point: 618 °C(decomposes)

Boiling point: —

Density: 2.1 g/cm³

Solubility: Water: Soluble (Hot water: Slightly soluble)

Flammable: Nonflammable substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container at room temperature.

Reactivity

Incompatibility: Strong oxidizing agents, strong acids, fluorine.

Condition to avoid: No data available

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Category 4 ; Harmful if swallowed
Li₂CO₃ oral rat LD₅₀ = 525mg/kg (PIM 309F(2000))

Acute toxicity(Dermal): GHS : Not classified.; Falls below the lowest level.
Li₂CO₃ dermal rat LD₀ =2000mg/kg (IUCLID(2000))

Skin corrosive / irritation: GHS : Not classified.; Falls below the lowest level.

Serious eyes damage / eye irritation: GHS : Category 2B ; Causes eye irritation

Respiratory/ skin sensitization: GHS ; No data available

Germ cell mutagenicity: GHS : Not classified.; Falls below the lowest level.

Carcinogenicity: GHS ; No data available

Reproductive toxicity: GHS ; Category 1A ; May damage fertility or the unborn child
Additional category; May cause harm to breast-fed children.

Specific target organ toxicity
—single exposure: GHS ; Category 1 ; Causes damage to organs(nervous system)
Category 3 ; May cause respiratory irritation.

Specific target organ toxicity GHS ; Category 1 ;

| | |
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| –repeated exposure: | May cause damage to organ through prolonged or repeated exposure. (nervous system, kidney) |
| Aspiration hazard: | GHS ; No data available |

Section 12. Ecological information

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| Ecotoxicity: | |
| Hazards to the aquatic environment | |
| –chronic toxicity: | GHS ; Category 2; Toxic to aquatic life |
| –acute toxicity: | GHS ; Category 2; Toxic to aquatic life with long lasting effects |
| Hazrdous to the ozone layer: | GHS ; No data available |
| | No Freon or Halon |
| Fish toxicity: | Fish(Fundulus heteroclitus) LC ₅₀ (96hr)=8.1mg/L(AQUIRE,2011) |
| Degradability: | No data available |
| Bioaccumulative potential: | Li:Biological half-life 2 day, Rate of absorption oral=1.0, Respiratory tract=0.75 |
| Mobility in soil: | No data available |

Section 13. Disposal considerations

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| Disposal method: | User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste. |
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Section 14. Transport information

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| UN number: | 3077 |
| IATA shipping name: | Environmentally hazardous substance, solid, n.o.s. |
| IATA classification: | Hazardous Class 9 (Miscellaneous dangerous substances) |
| IATA packing group: | III |
| HS code: | 2836.91 |
| Marine pollution: | Yes |

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.