

GHS Safety Data Sheet

SDS No. : LIH02XAEG

Last update: 2013/09/10

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

1.1 Product Information

Product name: **LiNO₃ Lithium nitrate, anhydrous**

Product number:	LIH14XB
Purity, Form	99%(2N)up, solid

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Reproductive toxicity : Category 1A	No data available	Oxidizing solids : Category 3 Explosives : Not classified

GHS Label: X C



Pictograms or symbols

Warning word: **DANGER**

Hazard information	Description of precaution
May intensify fire ; Oxidizer May damage fertility or the unborn child	Obtain special instructions. Read and understand all safety precautions before handling. Wear protective gloves/protective clothing/eye protection /respiratory protection/face protection during handling. In case of fire: Use water for extinction. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Store away from heat and combustible materials. Take any precaution to avoid mixing with combustible materials. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Hazardous Ingredient	
Chemical name	Lithium nitrate
Chemical formula	LiNO ₃
Single Substance or Compound:	Single substance
Composition:	100%
CAS #	7790-69-4
TSCA Inventory	listed

RTECS # QU9330000

EINECS # 2322189

(See Section 8 for Exposure Limits)

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.
If eye irritation develops, call a physician at once.
- 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

- Extinguishing agents: Use water.
- Fire fighting: Not combustible but enhances combustion of other substances.
Remove containers to safe place if possible.
Use water spray to Cool down nearby structures and containers.
Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
- Specific hazards arising from the chemical:
In case of fire, may liberate toxic gases/ fume.
- Combustion products:
Nitrogen oxides, fumes of metallic oxides.

Section 6. Accidental release measures

- Personal Precaution:
Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dust.
- Methods for containment and cleaning up:
Remove combustible materials and all sources of ignition.
Avoid unnecessary contacts with spills.
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 collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Handling worker wears suitable protective clothing, and use local ventilation equipment.

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 any heat, sparks, and flames.

Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH (2008) : 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 solid Deliquescent material
Chemical formula:	LiNO ₃
Molecular Weight:	68.9
Melting point:	264 °C
Boiling point:	600 °C
Density:	2.38 g/cm ³
Water solubility:	Very soluble
Flammable:	non-flammable substance
Oxidation:	Oxidizing substance

Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Strong reducing agents, organic materials.
Condition to avoid:	Heat, sources of ignition, moisture.
Hazard decomposition products	Nitrogen oxides, lithium oxides.

Section 11. Toxicological information

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : No data available
Respiratory/ skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : Category 1A ; May damage fertility or the unborn child.
Specific target organ toxicity	
– single exposure:	GHS : No data available
– repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Section 12. Ecological information

Ecotoxicity:	
Hazards to the aquatic environment	
– acute toxicity:	GHS : No data available
– chronic toxicity:	GHS : No data available

Hazardous the ozone layer: GHS : No data available
No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available
(ref.) 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

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: 2722

IATA shipping name: Lithium nitrate

IATA classification: Hazardous Class 5.1(Oxidizing substances)

IATA packing group: III

HS code: 2834.29

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.