

## GHS Safety Data Sheet

SDS No. : LII01PAEG

Date Issued: 2015/04/21

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

#### 1.1 Product Information

**Product name:** Li<sub>3</sub>N ; Lithium nitride

| Product number | Purity      | Form   | Size (mm) or Shape |
|----------------|-------------|--------|--------------------|
| LII01PB        | 2N(99.9%)up | powder | —                  |

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.  
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### Section 2. Hazards identification

#### GHS Classification

| Health Hazards    | Environmental Hazards | Physical Hazards                                                                               |
|-------------------|-----------------------|------------------------------------------------------------------------------------------------|
| No data available | No data available     | <b>Substances and mixtures which, in contact with water, emit flammable gases : Category 1</b> |

GHS Label: F



Pictograms or symbols

**Warning word: DANGER**

#### Hazard information

**Substances and mixtures which, in contact with water, emit flammable gases**

#### Description of precaution

Keep away from any possible contact with water, because of violent reaction and possible flash fire.  
 Protect from moisture. Handle under inert gas.  
 IN CASE OF FIRE: Use < Dry chemical, soda ash, lime or sand > for extinction. Do not use water or foam.  
 IF ON SKIN: Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.  
 Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.  
 Dispose of contents/ container in accordance with local/national regulations.

#### Additional hazard information :

Contact with water liberates toxic, flammable gas.

With respect to additional hazard information, see Section 11.

### Section 3. Composition / information on ingredients

|                              |                   |
|------------------------------|-------------------|
| Chemical or common name:     | Lithium nitride   |
| Chemical formula:            | Li <sub>3</sub> N |
| Single Substance or Mixture: | Single substance  |
| Composition:                 | 100%              |
| CAS #:                       | 26134-62-3        |
| RTECS#:                      | not listed        |
| TSCA inventory :             | listed            |
| EINECS:                      | 2474752           |

### Section 4. First aid measures

|               |                                                                                                                                          |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Contact physician if irritation continues.                    |
| Inhalation:   | Remove the exposed person immediately and provide fresh air.<br>Get medical attention.                                                   |
| Ingestion:    | Rinse mouth and throat with water. Get medical attention immediately.                                                                    |

### Section5. Fire fighting measures

|                      |                                                                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media: | Dry sand, dry sodium chloride based extinguishers or other Class D fire<br>-extinguishing materials.<br>DO NOT use water or foam.                                                                                             |
| Fire fighting        | Contact with water liberates toxic, flammable gas.<br>Remove containers to safe place if possible.<br>Self-contained breathing apparatus and full protective clothing should be used,<br>if the material is involved in fire. |
| Explosion hazards:   | Dust explosion; No data available.                                                                                                                                                                                            |

### Section 6. Accidental release measures

|                                               |                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions:                         | Workers should use protective wears to prevent contact with the spilt adhesive<br>and inhalation of its vapor/dusts.                                                                                                                                                                                                                                                       |
| Environmental<br>hazard precautions:          | Shut off leak if without risk.<br>Prevent flow out to river, etc. so as not to badly affect.                                                                                                                                                                                                                                                                               |
| Method for<br>containment and<br>cleaning up: | Eliminate all ignition sources(no smoking, flares, sparks or flames in<br>immediate area).<br>Indoor leakage: Ventilate as much as possible until the cleaning is completed.<br>Outdoor leakage: Work from the windward and evacuate the leeward crowd.<br>Gather up, pack in closed container as much as possible.<br>Carefully collect remnant and move to a safe place. |

## Section 7. Handling and storage

### Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.  
 Handle the material in a dry inert gas atmosphere (utilizing glove bag or glove box.)  
 Air and moisture sensitive.  
 Keep container or bottle tightly closed when not in use.

### Precautions to be taken in storage:

General precautions: Keep in a dry inert gas.  
 Keep container or bottle tightly closed.  
 Store in a cool, dry 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: Red-brown crystalline solid

Chemical formula: Li<sub>3</sub>N

Formula weight: 34.8

Melting point: 845 °C

Boiling point: No data available

Density: 1.27 g/cm<sup>3</sup>

Water solubility: Water: slightly soluble

Flammable: No data available

Oxidation: None

## Section10. Stability and reactivity

Stability: Stable in closed container under inert gas.

Reactivity

Incompatibility: Water, aqueous solution, moisture, copper( I ) chloride, silicon tetrafluoride

## Section11. 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 ; No data available |
| Specific target organ toxicity   |                         |
| –single exposure:                | GHS ; No data available |
| Specific target organ toxicity   |                         |
| –repeated exposure:              | GHS ; No data available |

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system.

## Section12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

    – acute toxicity: GHS ; No data available

    – chronic toxicity: GHS ; No data available

Hazardous to the ozone layer

GHS ; No data available

No Freon or Halon

Degradability:

No data available

Bioaccumulative potential:

| Ingredients<br>Name | Biological half-life<br>( day ) | Rate of absorption |                      |
|---------------------|---------------------------------|--------------------|----------------------|
|                     |                                 | oral               | respiratory<br>tract |
| Li                  | 2                               | 1.0                | 0.75                 |

Mobility in soil:

No data available

## Section13. 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:           | 2806                                                                                 |
| IATA shipping name:  | Lithium nitride                                                                      |
| IATA classification: | Hazardous Class 4.3<br>(Substances which in contact with water emit flammable gases) |
| IATA packing group:  | I                                                                                    |
| HS code:             | 2850.00                                                                              |
| 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.