# GHS Material Safety Data Sheet

MSDS No. :LAI01PAEG Date Issued: 2011/06/01

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

#### 1.1 Product Information

Product name: LaH<sub>x</sub> Lanthanum hydride

Product number	LAI10PB	LAI11PB	LAI12GB
Purity	99%(2N)up	99.9%(3N)	99%(2N)up
Form	powder	powder	grains

### 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
No data available	No data available	No data available

GHS Label: Not applicable

Pictograms or symbols: Not applicable

Warning word: Not applicable		
Hazard information: Not applicable	<b>Description of precaution:</b> Not applicable	

#### Additional hazard information:

May release extremely flammable gases on contact with water.

May ignite spontaneously in moist air.

## Section 3. Composition / information on ingredients

Chemical or common name: Lanthanum(Ⅲ) hydride

Single Substance or Compound: Single substance

Chemical formula:  $LaH_x$ Composition: 100%

CAS #: 13598-35-1 (LaH<sub>3</sub>) TSCA inventory: listed (LaH<sub>3</sub>)

EINECS: 2376077 (LaH<sub>3</sub>)

RTECS#: not listed

(See Section 8 for **Exposure Limits**)

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#### 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: Remove immediately all contaminated clothing. Wipe off the product

immediately by tissue or soft cloth, etc. 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 Dry chemical powder, soda ash, lime or dry sand.

agents: DO NOT use water or foam.

Fire fighting: Flammable material. Burning material releases toxic fumes.

May release flammable gases on contact with water.

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.

#### Section 6. Accidental release measures

Personal Workers should use protective wears to prevent contact with the spilt

Precaution: adhesive and inhalation of its dusts / fume / gases.

Environmental Shut off leak if without risk.

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

Methods for Wear respirator, chemical safety goggles, rubber boots and impervious

containment and gloves. Wear disposable coveralls and discard them after use.

cleaning up: Remove 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.

Cover with dry sand or other non-combustible material, and dispose of

DOT-approved waste containers as much as possible. Carefully

wash spill site with plenty of water after material pick up.

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### 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.

Keep away from water and sources of ignition.

Handling worker wears suitable protective clothing.

Avoid prolonged or repeated exposure.

Take precautionary measures against static discharges. Keep container or bottle tightly closed when not in use.

Precautions to be taken in storage:

General Store the material in a sealed container.

precautions: Store in a cool, dry, well ventilated place away from incompatible

materials.

Keep away from water and sources of ignition.

### Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2008)TLV: No data available

OSHA(2006)PEL : 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: Black solid

Chemical formula: LaH<sub>x</sub>

Formula weigh 141.9 (LaH<sub>3</sub>)

Melting point: No data available.
Boiling point: No data available.

Solubility: Water: Hydrolyzes in water

Flammable: flammable substance

May release extremely flammable gases on contact with water.

May ignite spontaneously in moist air.

Oxidation: None

### Section 10. Stability and reactivity

Stability: • Stable in an inert gas under room temperature.

Reactivity: Incompatibility; • Water, acids and oxidizing agents.

Conditions to avoid; · Heat, sparks and flames. · Moisture

Hazard decomposition products: · Hydrogen

## Section 11. Toxicological information

GHS; No data available Acute toxicity: Skin corrosive / irritation: GHS; No data available GHS; No data available Serious eye damage / irritation: Respiratory sensitization: GHS; No data available Skin sensitization: GHS; No data available Germ cell mutagenicity: GHS; No data available GHS; No data available Carcinogenicity: Reproductive toxicity: GHS; No data available

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 environme

-acute toxicity: GHS; No data available-chronic toxicity: GHS; No data available

Degradability:

Bioaccumulative potential:

Ozone depletion potential:

No data available

No Freon or Halon

#### 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: 1409

IATA shipping name: Metal hydrides, water reactive, n.o.s.

IATA classification: Hazardous Class 4.3

IATA packing group:

HS code: 2846.90 Marine pollution: None LaH<sub>x</sub>; LAI01PAEG; 2011/06/01 Page 5 of 5

## Section 15. Regulatory information

TSCA inventory: listed(LaH<sub>3</sub>)

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.