100 Bridge Street, Pelham, NH 03076, USA

Tel: (603) 635-2255 Toll Free: (800) 374-9513 Fax: (603) 635-2448 E-mail: info@medicalisotopes.com Internet: www.medicalisotopes.com

SAFETY DATA SHEET

SECTION 1. Identification

Product:

Product Name: Lithium Aluminum Deuteride

Catalog number: D3017

Supplier:

Medical Isotopes, Inc. 100 Bridge Street Pelham, NH 03076 USA

Tel: +1-603-635-2255 Fax: +1-603-635-2448

Email: info@medicalisotopes.com

Suitability:

For laboratory use only.

Emergency Contact Information:

Call Chemtrec 24/7

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. Hazard(s) identification

Hazard classification:

Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260

Acute toxicity, Oral (Category 3), H301 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

Signal Word:

Danger

Hazard Statements:

H260 In contact with water releases flammable gases which may ignite spontaneously.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Pictogram:







Precautionary Statements:

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232 Handle under inert gas. Protect from moisture.

P264 Wash skin thoroughly after handling.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

Other hazards:

None

SECTION 3. Composition/Information on Ingredients

Chemical name:

Lithium Aluminum Deuteride

Synonyms:

N/A



MEDICAL ISOTOPES, Inc.

CAS number:

14128-54-2

Impurities/Additives:

N/A

SECTION 4. FIRST AID MEASURES

Skin Contact: Wash with soap and water for several minutes. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation: Remove from exposure and move to fresh air immediately. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use a dry powder extinguisher.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary. **Hazardous combustion products:** Lithium oxides, aluminum oxides.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Make sure to wear appropriate protective equipment as listen in section 8. Avoid breathing dust,

vapors, or mists.

Spill Clean-up Methods: Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with a non-combustible material (e.g. sand, earth, diatomaceous earth), sweep up, and place into a suitable container for disposal. Avoid breathing the resulting dust.

SECTION 7. HANDLING & STORAGE

Usage/Handling Precautions: Make sure to wear appropriate PPE as listed in section 8. Avoid contact with skin and

eves.

Storage Conditions: Keep tightly closed and store at room temperature. Handle under an inert gas

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls: Use fumehood if available.

Personal Protective Equipment

Eyes: Always wear safety glasses when working with chemicals. Wear chemical goggles when working with liquids.

Skin: Wear protective gloves and a lab coat to prevent skin exposure.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray Powder

Odor: N/A pH: N/A

Melting Point: 125 °C Water Solubility (%): N/A Flash Point (°C): N/A Vapor pressure: N/A

Autoignition Temperature (°C): N/A Flammability Limits in Air (% by Vol.): N/A

SECTION 10. STABILITY & REACTIVITY

Reactivity: N/A

Chemical Stability: Stable under recommended storage conditions

Conditions to Avoid: Water, atmospheric moisture, strong oxidizing agents, alcohols, peroxides, halogenated

hydrocarbons, and compounds with active (protic) hydrogen atoms.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation: LD50 – mammal, 70 mg/kg Ingestion: LD50 oral – mouse 85 mg/kg

Skin and eye contact: N/A

Other: N/A

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SECTION 12. ECOLOGICAL INFORMATION

N/A

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Via licensed disposal company. Dispose of according to federal, state/province and local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1410 Class: 4.3 Packing group: I Proper shipping name: Lithium aluminum hydride

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 1410 Class: 4.3 Packing group: I EMS-No: F-G, S-M

Proper shipping name: LITHIUM ALUMINIUM HYDRIDE

Marine pollutant: No

IATA

UN number: 1410 Class: 4.3 Packing group: I Proper shipping name: Lithium aluminium hydride IATA Passenger: Not permitted for transport

SECTION 15. REGULATORY INFORMATION

N/A

SECTION 16. OTHER INFORMATION

Preparation information: Last revised on 6/10/2015.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MEDICAL ISOTOPES, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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