

Lithium Deuteride		Pricing >
Signal Word	Danger	
Hazard Statements	H261	
Hazard Codes	F	
Precautionary Statements	P223-P231+P232-P280-P335+P334-P370+P378-P501	
<b>Risk Codes</b>	11-14-34	
Safety Statements	16-26-36/37/39-45-7/9	
RTECS Number	N/A	
Transport Information	UN 1414 4.3/PG 1	
WGK Germany	2	
GHS Pictograms	GHS02 Flame	

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### SAFETY DATA SHEET

Date Accessed: 05/08/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #13587-16-1

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

### SECTION 2. HAZARDS IDENTIFICATION

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Substances/mixtures which, in contact with water, emit flammable gases - Category 2 Label Elements Signal Word: Danger Hazard Statements In contact with water releases flammable gas



Precautionary Statements Prevention Keep away from any possible contact with water, because of violent reaction and possible flash fire Handle under inert gas. Protect from moisture Wear protective gloves/protective clothing/eye protection/face protection Skin Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a dry place. Store in a closed container Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component - Lithium (2H)hydride CAS-No - 13587-16-1 Weight % - 99

### **SECTION 4. FIRST AID MEASURES**

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Take off contaminated clothing and shoes immediately. Inhalation Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required. Ingestion Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards. Most important symptoms and effects

No information available.

Notes to Physician Treat symptomatically

### SECTION 5. FIREFIGHTING MEASURES

Unsuitable Extinguishing Media No information available Flash Point No information available Method - No information available Autoignition Temperature No information available **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available Specific Hazards Arising from the Chemical Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water. Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and vapors. Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA Health Flammability 2 Instability

1

Physical hazards W

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Environmental Precautions See Section 12 for additional Ecological Information. Methods for Containment and Clean Up

#### **SECTION 7. HANDLING AND STORAGE**

Handling Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling. Storage Keep from any possible contact with water. Store under an inert atmosphere. Keep away from water or moist air.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures Ventilation systems. Personal Protective Equipment Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection No protective equipment is needed under normal use conditions. Hygiene Measures Handle in accordance with good industrial hygiene

#### and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid Appearance No information available Odor No information available Odor Threshold No information available pH No information available Melting Point/Range 680 °C / 1256 °F Boiling Point/Range No information available

Flash Point No information available **Evaporation Rate Not applicable** Flammability (solid,gas) No information available Flammability or explosive limits Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable Specific Gravity 0.820 Solubility No information available Partition coefficient; n-octanol/water No data available Autoignition Temperature No information available Decomposition Temperature No information available Viscosity Not applicable Molecular Formula D Li Molecular Weight 8.96

#### SECTION 10. STABILITY AND REACTIVITY

**Reactive Hazard Yes** 

Stability Stable under normal conditions. Hygroscopic. Conditions to Avoid Incompatible products. Incompatible Materials Strong oxidizing agents Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information No acute toxicity information is available for this product **Component Information Toxicologically Synergistic** Products No information available Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation No information available Sensitization No information available Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available Symptoms / effects,both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity Do not empty into drains. Persistence and Degradability No information available Bioaccumulation/ Accumulation No information available. Mobility No information available.

# SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT **UN-No UN1414** Hazard Class 4.3 Packing Group I TDG **UN-No UN1414** Hazard Class 4.3 Packing Group I IATA **UN-No UN1414** Proper Shipping Name LITHIUM HYDRIDE Hazard Class 4.3 Packing Group I IMDG/IMO **UN-No UN1414** Proper Shipping Name LITHIUM HYDRIDE Hazard Class 4.3 Packing Group I

# SECTION 15. REGULATORY INFORMATION

United States of America Inventory Component Lithium (2H)hydride CAS-No 13587-16-1 TSCA -TSCA Inventory notification -Active/Inactive -TSCA - EPA Regulatory Flags -International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL). Component Lithium (2H)hydride CAS-No 13587-16-1 DSL -NDSL -EINECS - 237-018-5 PICCS -ENCS -AICS - Listed **IECSC** -**KECL** -**U.S.** Federal Regulations SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air Act Not applicable OSHA - Occupational Safety and Health Administration Not applicable **CERCLA Not applicable** California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Not applicable U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant: N DOT Severe Marine Pollutant: N U.S. Department of Homeland Security This product does not contain any DHS chemical. Other International Regulations Mexico - Grade No information available

### **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The

information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.