

# SAFETY DATA SHEET

Date Printed: 05/14/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% Lithium Nitride

Product Code: LI-N-04

CAS Number: 26134-62-3

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: +1 800-424-9300

## **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 1 Pyrophoric solids Category 1 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system Signal Word Danger Hazard Statements In contact with water releases flammable gases which may ignite spontaneously Catches fire spontaneously if exposed to air Causes severe skin burns and eye damage May cause respiratory irritation



**Precautionary Statements** Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Do not allow contact with air Keep away from any possible contact with water, because of violent reaction and possible flash fire Handle under inert gas. Protect from moisture Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store under an inert atmosphere 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) Reacts violently with water

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component CAS-No Weight % Lithium nitride 26134-62-3 <=100

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

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Most important symptoms and effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable Extinguishing Media Dry sand. Carbon dioxide (CO 2). Powder. Do not use water or foam. CO 2, dry chemical, dry sand, alcohol-resistant foam. 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 The product causes burns of eyes, skin and mucous membranes. Reacts violently with water. Hazardous Combustion Products Nitrogen oxides (NOx). Lithium oxide. 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. Thermal decomposition can lead to release of irritating gases and vapors. NFPA Health 3 Flammability 4 Instability 2 Physical hazards W

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** 

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Environmental Precautions

Should not be released into the environment. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information. Do not flush into

surface water or sanitary sewer system.

Methods for Containment and CleanUp

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do not expose spill to water.

# SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water. Storage

Corrosives area. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place.

# 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 None under normal use conditions. Ensure that eyewash stations and safety showers are

close to the workstation location. 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 Red - Brown Odor Ammoniacal Odor Threshold No information available pH No information available Melting Point/Range 845 °C / 1553 °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 1.3 g/cm3 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 Li3 N Molecular Weight 34.82

#### SECTION 10. STABILITY AND REACTIVITY

**Reactive Hazard Yes** Stability Moisture sensitive. Conditions to Avoid Exposure to moist air or water. Exposure to moisture. Incompatible Materials Strong bases, Oxidizing agent Hazardous Decomposition Products Nitrogen oxides (NOx), Lithium oxide Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing. Reacts

#### SECTION 11. TOXICOLOGICAL INFORMATION

**Product Information 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 Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated.

## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available. Mobility No

# **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 UN2806** Proper Shipping Name LITHIUM NITRIDE Hazard Class 4.3 Packing Group I TDG **UN-No UN2806** Proper Shipping Name LITHIUM NITRIDE Hazard Class 4.3 Packing Group I IATA **UN-No UN2806** Proper Shipping Name LITHIUM NITRIDE Hazard Class 4.3 Packing Group I IMDG/IMO **UN-No UN2806** Proper Shipping Name LITHIUM NITRIDE Hazard Class 4.3 Packing Group I

## SECTION 15. REGULATORY INFORMATION

United States of America Inventory Component Lithium nitride CAS-No 26134-62-3 TSCA Listed **TSCA** Inventory notification Active **TSCA - EPA Regulatory Flags** TSCA 12(b) - Notices of Export Not applicable International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL). Lithium nitride CAS-No 26134-62-3 DSL

NDSL Listed EINECS 247-475-2 PICCS Listed 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 Component Lithium nitride **Massachusetts** New Jersey Listed Pennsylvania Illinois Rhode Island 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 contains the following DHS chemicals: Component Lithium nitride DHS Chemical Facility Anti-Terrorism Standard APA (A placarded amount) Other International Regulations Mexico - Grade

## **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.