




[Lithium Nitride](#)

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Signal Word	Danger
Hazard Statements	H250-H260-H314-H335
Hazard Codes	F.C
Precautionary Statements	P210-P222-P223-P231+P232-P260-P264-P271-P280-P301+P330+P331-P303+P361+P353-P304+P340-P305+P351+P338-P310-P335+P334-P363-P370+P501
Risk Codes	11-14-29-34
Safety Statements	16-22-26-27-36/37/39-45
RTECS Number	N/A
Transport Information	UN 2806 4.3/PG 1
WGK Germany	3
GHS Pictograms	GHS02 Flame  GHS05 Corrosive  GHS07 Exclamation Point 

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SAFETY DATA SHEET

Date Accessed: 05/06/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #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:
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 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 (CO₂). Powder. Do not use water or foam. CO₂, 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 (NO_x). 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 limits established 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 (NO_x), 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
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

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