

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Nickel Boron

1. Product and Company Identification

Trade Name: Aluminum nickel boron

Chemical Formula: AlNiB

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H317 May cause an allergic skin reaction

H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated

exposure

Precautionary Statements: P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing/eye protection/face

protection

P363 Wash contaminated clothing before reuse

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

3. Composition	
Chemical Family:	Alloy
Additional Names:	None
Aluminum (Al):	
Percentage:	0-100 wt%
CAS #:	7429-90-5
EC #:	231-072-3
Nickel (Ni):	0.400
Percentage:	0-100 wt%
CAS #: EC #:	7440-02-0 231-111-4
	231-111-4
Boron (B):	
Percentage:	<1 wt%
CAS #: EC #:	7440-42-8 231-151-2
EC#.	231-131-2
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
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Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention ries, inc.
Skin:	Wash affected area with mild soap and water. Remove any
P	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal.
E : AB :	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 1.00 mg/m³ as Ni, long-term value Threshold Limit Value: 0.2 mg/m³ as Ni long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Powder, Granules, Pellets, Sputtering target, Custom parts Form:

Odor: **Odorless**

Water Solubility: Insoluble Redearch **Boiling Point:** N/A

Melting Point: 639-1638 °C

Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids **Incompatible Conditions:** None

Hazardous Decomposition Products: Metal oxide fume, Boron oxide, Aluminum oxide

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: Causes damage to the lung, the kidneys and the the liver through

prolonged or repeated exposure. Route of exposure: Oral

Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. They may also cause intestinal disorders, convulsions and asphyxia. Airborne nickel contaminated dusts are regarded as

carcinogenic to the respiratory tract

Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistent vomiting and diarrhea, followed by profound shock and coma. The temperature may become subnormal and a scarletina form rash may cover the entire body.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: May cause cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical

evidence in, exposed humans.

NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

Additional information: to the best of our knowledge the acute and chronic toxicity of the

substance is not fully known.

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Notes: Very toxic for aquatic organisms

Avoid transfer into the environment Keep away from water sources

May cause long lasting harmful effects to aquatic life

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Aluminum nickel

boride)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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