

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Lithium-doped

1. Product and Company Identification

Trade Name: Aluminum, lithium-doped

Chemical Formula: Al/Li

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: H250 Catches fire spontaneously if exposed to air

H261 In contact with water releases flammable gas

Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P222 Do not allow contact with air

P231+P232 Handle under inert gas. Protect from moisture P370+P378 In case of fire: Use special powder for metal fires for

extinction

P422 Store contents under inert gas

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

HMIS Health Ratings (0-4): Powder Bulk

Health: 1 1
Flammability: 3 1
Physical: 2 1

3. Composition	
Chemical Family:	Metal
Additional Names:	N/A
Aluminum (Al):	
Percentage:	95-100 wt%
CAS #:	7429-90-5
EC #:	231-072-3
Lithium (Li):	
Percentage:	0-5 wt%
CAS #:	7439-93-2
EC #:	231-102-5
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation	Democra victim to fresh sin If unconssions along actions stable in side
Inhalation:	Remove victim to fresh air. If unconscious, place patient stably in side position for transportation
Ingastion	Seek medical attention
Ingestion: Skin:	Wash affected area with mild soap and water
	Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing
	conduct tenses if present and easy to do. Continue mising
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Spec. The Fighting Frocedure.	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.
	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
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 15 mg/m³ as Al, long-term value Threshold Limit Value: 1 mg/m³ as Al, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
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 Metallic grey

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

Odor: Odorless

Water Solubility: Insoluble – may produce flammable gas

Boiling Point: ~2519 °C

Melting Point: ~660 °C

Flash Point: N/A

Autoignition Temperature: N/A

Density: ~2.70 g/cc

Molecular weight: ~29.981 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, Air, Acids, Bases, Halocarbons, water

Incompatible Conditions: Air, Moisture

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

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Potential Health Effects:

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

Chronic: N/A

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

Median Lethal Dose: N/A

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.3 Substances which, in contact with water produce flammable gas

Packing Group:

UN Number: UN1396

Proper Shipping Name: Aluminum powder, uncoated, lithium doped

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.

Research

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