



LTS Research Laboratories, Inc.
Safety Data Sheet
Aluminum Indium Alloy

1. Product and Company Identification

Trade Name: Aluminum Indium Alloy
Chemical Formula: Al-In
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:

- H228: Flammable solid
- H250: Catches fire spontaneously if exposed to air
- H261: In contact with water releases flammable gas
- H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled
- H319: Causes serious eye irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P222: Do not allow contact with air
- P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire
- P231+P232: Handle under inert gas. Protect from moisture
- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/light/equipment
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P264: Wash face, hands, and any exposed skin thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P271: Use only outdoors or in a well-ventilated area
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P302+P335+P334: IF ON SKIN: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P363: Wash contaminated clothing before reuse
P370+P378: In case of fire: Use suitable extinguishing media for extinction
P402+P404: Store in a dry place. Store in a closed container
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:	2
Flammability:	3
Physical:	1

3. Composition

Chemical Family:	Alloy
Additional Names:	None

Aluminum (Al):

Percentage:	100 wt%
CAS #:	7429-90-5
EC #:	231-072-3

Indium (In):

Percentage:	100 wt%
CAS #:	7440-74-6
EC #:	231-180-0

4. First Aid Procedures

General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None

Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Immediate medical attention required.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediate attention required.

5. Firefighting Measures

Flammability:	Flammable as powder only
Extinguishing Media:	Do NOT use water for metal fires. Use dry sand, dry powder, limestone powder or approved class D extinguishers.
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. 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:	5 mg/m ³ as Al, long-term value 0.1 mg/m ³ as In, long-term value
Threshold Limit Value:	1 mg/m ³ as Al, long-term value 0.1 mg/m ³ as In, 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	Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A

10. Reactivity

Stability: Pyrophoric. Stable under recommended storage conditions
Reacts With: Acids, Acid chlorides, Alcohols, Bases, Carbon dioxide, Halogens, Halogenated compounds, Oxidizing agents, Oxygen, Water
Incompatible Conditions: Exposure to moisture. Exposure to air. Avoid dust formation. Excess heat. Keep away from flames and sparks.
Hazardous Decomposition Products: Aluminum oxide, Indium oxide

11. Toxicological Information

Potential Health Effects:
Eyes: Causes serious eye irritation
Skin: Harmful if in contact with skin
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled
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: N/A
Very Persistent, Very Bioaccumulative: N/A
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 Dangerous when wet materials
Packing Group: II
UN Number: UN3208
Proper Shipping Name: Metallic substance, water-reactive, n.o.s. (Aluminum Indium Alloy)

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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