

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

1. Product and Company Identification Trade Name: Silver Aluminum Alloy Chemical Formula: Ag-Al 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 earch ratorías. Inc. H250: Catches fire spontaneously if exposed to air Hazard Statements: H261: In contact with water releases flammable gas P210: Keep away from heat/sparks/open flames/hot surfaces - No **Precautionary Statements:** smoking P222: Do not allow contact with air P223: 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 P501 Dispose of contents/container in accordance with local/regional/national/international regulations HMIS Health Ratings (0-4): Powder Bulk Health: 1 0 Flammability: 0 3 2 0 Physical:

	3. Composition	
Chemical Family:	Alloy	
Additional Names:	Aluminum Silver Alloy	
Aluminum (Al):		
Percentage:	0-100 wt%	
CAS #:	7429-90-5	
EC #:	231-072-3	
Silver (Ag):		
Percentage:	0-100 wt%	
CAS #:	7440-22-4	
EC #:	231-131-3	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. If unconscious, place patient stably in side	
T	position for transportation	
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious	
Skin:	person. Seek medical attention Wash affected area with mild soap and water	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
Lyes.	contact lenses if present and easy to do. Continue rinsing	
	- Research	
	5. Firefighting Measures 5. Inc.	
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	
spee. The Lighting Procedure.	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	
L. L	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:	Handle under inert gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Product is	
	moisture sensitive. Product is air sensitive. 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	
	threshold limit.	

8. Exposure Controls and Personal Protection	
Permissible Exposure Limits:	15 mg/m ³ as Al, long-term value
	0.01 mg/m ³ as Ag metal and soluble compounds, long-term value
Threshold Limit Value:	1 mg/m^3 as Al, long-term value
	0.1 mg/m ³ as Ag metal: dust and fume, 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. Pl	hysical 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
	Resparch
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Air, Acids, Bases, Halogenated compounds, wate
Incompatible Conditions:	Air, Moisture
Hazardous Decomposition Products:	Aluminum Oxide, Silver Oxide, Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	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. DANGEROUS 4.3 Substances which, in contact with water produce flammable gas Hazard Class: Packing Group: Π UN Number: UN3132 Proper Shipping Name: Water-reactive solid, flammable, n.o.s. (Silver Aluminum powder) **15. Regulatory Information** Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: 1 lb (0.454 kg) as Silver 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

mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

11/16/2018

activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the