

Physical:

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

1. Product and Company Identification Trade Name: Zinc aluminum alloy Chemical Formula: ZnAl Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg State: New York 10962 Zip Code: 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 H250: Catches fire spontaneously if exposed to air Hazard Statements: H260: In contact with water releases flammable gases which may ignite spontaneously H410: Very toxic to aquatic life with long lasting effects P210: Keep away from heat/sparks/open flames/hot surfaces - No **Precautionary Statements:** 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 P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P335+P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages P370+P378: In case of fire: Use CO2, sand, extinguishing powder for extinction P391: Collect spillage P402+P404: Store in a dry place. Store in a closed container P403+P233: Store in a well-ventilated place. Keep container tightly closed 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: 3 0

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3. Composition		
Chemical Family:	Alloy	
Additional Names:	N/A	
Aluminum (Al):		
Percentage:	0-100 wt%	
CAS #:	7429-90-5	
EC #:	231-072-3	
Zinc (Zn):		
Percentage:	0-100 wt%	
CAS #:	7440-66-6	
EC #:	231-175-3	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Seek Medical Attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing	
	Sec. 1.	
	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 Flocedure.	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:	Handle under dry protective gas. 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	
, on Hygienie mantenaliee.	eating and smoking. Do not blow dust off clothing or skin with	
	saming and smoking. Do not olow dust on clothing of skill with	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	15 mg/m ³ as Al, long-term value	
Threshold Limit Value:	1 mg/m^3 as Al, long-term value	
Special Equipment:	None	
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	
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	Bluish silver, lustrous	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Contact with water releases flammable gases	
Boiling Point:	N/A	
Melting Point:	382-660°C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity atorias, Inc.	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, air acids, bases, halocarbons, water, Alcohols,	
	Halogens, CO2	
Incompatible Conditions:	Air, dust, heat, water/moisture, acids, bases, oxidizing agents	
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen	
	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:	EPA-I: Data are inadequate for an assessment of human carcinogenic potential.	

	12. Ecological Information
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic for aquatic organism.
	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without proper governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into the ground.
	Also poisonous for fish and plankton in water bodies.
	Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data		
Hazardous:	Hazardous as powder only DANGEROUS NP ^R 4 4	
Hazard Class: Secondary class: Packing Group: UN Number: Proper Shipping Name:	 4.3 Substances which, in contact with water, emit flammable gases. 4.2 Spontaneously combustible II (1-50 microns), III (50-1000 microns) UN3135 Water-reactive solid, self-heating, n.o.s (Zinc Aluminum powder) 	
	15. Regulatory Information	
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A Yes (Zinc, aluminum)	
	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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