

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Silicon Copper Alloy

1. Product and Company Identification

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Trade Name:	Aluminum Silicon Copper Alloy
Chemical Formula:	AlSiCu
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
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Hazard Statements:	H228: Flammable solid
	H319: Causes serious eye irritation
	H335: May cause respiratory irritation
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No
	smoking
	P240: Ground/bond container and receiving equipment
	P241: Use explosion-proof electrical/ventilating/light/equipment
	P261: Avoid breathing dust/fume/vapor
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses if present and easy to do –
	continue rinsing.
	P335+P334: Brush off loose particles from skin. Immerse in cool
	water/wrap in wet bandages
	P370+P378: In case of fire: Use fire-fighting equipment on basis clas
	D 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
	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:	3
Physical:	2
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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	
Silicon (Si):		
Percentage:	0-100 wt%	
CAS #:	7440-21-3	
EC #:	231-130-8	
Copper (Cu):		
Percentage:	0-100 wt%	
CAS #:	7440-50-8	
EC #:	231-159-6	
	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:	Seek medical attention. Here had	
Skin:	Wash affected area with mild soap and water. Seek immediate medical	
-	Attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Flammable 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	
	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 inert gas. Protect from moisture. 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. Ez	xposure Controls and Personal Protection
Permissible Exposure Limits:	15 mg/m ³ as Al, long-term value
	15 mg/m ³ as Si, total dust, long-term value
	5 mg/m ³ as Si, respirable fraction, long-term value
	0.1 mg/m^3 as Cu, metal fume, long-term value
	1 mg/m ³ as Cu, metal dusts and mists, long-term value
Threshold Limit Value:	1 mg/m ³ as Al, long-term value
	0.2 mg/m^3 as Cu, metal fume, long-term value
	1 mg/m ³ as Cu, metal dusts and mists, 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. honetories, inc.
9.	Physical and Chemical Characteristics
Color	N/A
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:	Stable under recommended storage conditions
Reacts With:	Water, Strong acids, Strong bases, Alcohols, Halogens, Oxidizing agents
Incompatible Conditions:	Moisture sensitive
Hazardous Decomposition Products:	Molsture sensitive Metal oxide fume, Aluminum oxide fumes, Silicon dioxide fumes, Copper oxide fumes

	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:	Medium
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without prope
	governmental permits
	13. Disposal Considerations
Dispose of in accordance with local, state,	national and international regulations
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Hazardous:	Research
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Hazardous: Hazard Class: Packing Group: UN Number:	14. Transportation Data ¹⁵ no. Hazardous as powder only A .1 Flammable solids, self-reactive substances and solid desensitized explosives III 3089
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	14. Transportation Data Hazardous as powder only A .1 Flammable solids, self-reactive substances and solid desensitized explosives III 3089 Metal powders, flammable, n.o.s. (Aluminum Silicon Copper Alloy)
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	14. Transportation Data Hazardous as powder only Image: Colspan="2">Image: Colspan="2" C

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.

Document Last Revised:

08/24/2022

