

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Sulfide

1. Product and Company Identification		
Trade Name:	Aluminum sulfide	
Chemical Formula:	Al_2S_3	
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 / 845-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Danger	
	L'ARS (CN)	
Hazard Statements:	H261 In contact with water releases flammable/toxic gas	
	H315 Causes skin irritation	
	H319 Causes serious eye irritation	
Precautionary Statements:	P231+P232 Handle under inert gas. Protect from moisture.	
	P261 Avoid breathing dust/fume/vapor	
HMIS Health Ratings (0-4):		
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Health: Flammability: Physical: Chemical Family:	P305+P351 If in eyes: Rinse cautiously with water for several minutes. 2 2 2 3. Composition Ceramic	
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Health: Flammability: Physical: Chemical Family: Additional Names: Aluminum sulfide (Al ₂ S ₃):	P305+P351 If in eyes: Rinse cautiously with water for several minutes 2 2 2 3. Composition Ceramic Aluminum(III) sulfide	
Health: Flammability: Physical: Chemical Family: Additional Names: Aluminum sulfide (Al ₂ S ₃): Percentage:	P305+P351 If in eyes: Rinse cautiously with water for several minutes 2 2 2 3. Composition Ceramic Aluminum(III) sulfide 100 wt%	
Health: Flammability: Physical: Chemical Family: Additional Names: Aluminum sulfide (Al ₂ S ₃):	P305+P351 If in eyes: Rinse cautiously with water for several minutes 2 2 2 3. Composition Ceramic Aluminum(III) sulfide	

	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:	Give one to two glasses of water and induce vomiting. Never induce
Skin:	vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
Skiii.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable.
·	Reacts with water
Extinguishing Media:	Do not use water – 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:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
West-Alexienie Maintenance	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.
	Exposure Controls and Personal Protection
Permissible Exposure Limits:	None
Threshold Limit Value:	None
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. F	Physical and Chemical Characteristics		
Color	Pale grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Rotten eggs		
Water Solubility: Boiling Point: Melting Point:	Reacts 1500 °C 1100 °C		
		Flash Point:	N/A
		Autoignition Temperature:	N/A
Density:	2.02 g/cc		
Molecular weight:	150.16 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Water, Acids, Oxidizing agents		
Incompatible Conditions:	Moisture		
Hazardous Decomposition Products:	Hydrogen sulfide, sulfur oxides		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	Causes serious irritation		
Skin:	Causes irritation		
Ingestion:	May be toxic		
Inhalation:	Causes irritation		
Chronic:	N/A		
Notes:	Reaction with water produces toxic, flammable hydrogen sulfide gas		
Notes.			
	which smells of rotten eggs.		
Signa & Symptoma	N/A		
Signs & Symptoms:	N/A 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 for transportation.	
	Angerous (187) Poison	
Hazard Class:	4.3 Substances, which, in contact with water, release flammable gas	
Secondary Class	6.1 Toxic substances	
Packing Group:	III	
UN Number:	UN3134	
Proper Shipping Name:	Water reactive solid, toxic, n.o.s. (Aluminum sulfide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	
	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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Document Last Revised:

02/10/2016