

LTS Research Laboratories, Inc. Safety Data Sheet Yttrium Silicon Aluminum Oxynitride

1. Product and Company Identification Trade Name: Yttrium Silicon Aluminum Oxynitride Chemical Formula: **Y-SiAlON** 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 / 845-lts-chem 24-Hour Emergency Contact: 800-424-9300 (US & Canada) +1-703-527-3887 (International) 2. Hazards Identification Signal Word: Warning arch stories, Inc. Hazard Statements: H228: Flammable solid P210: Keep away from heat/sparks/open flames/hot surfaces - No **Precautionary Statements:**

smoking P280: Wear protective gloves/protective clothing/eye protection/face protection P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/lighting/equipment

P370+P378: In case of fire: Use CO₂, powder, water spray for extinction

HMIS Health Ratings (0-4):	Powder	Pieces
Health:	0	0
Flammability:	2	0
Physical:	0	0

3. Composition

Chemical Family: Additional Names: Ceramic

l Names: α/β -Y-SiAlON

Yttrium Silicon Aluminum Oxynitride (Y-SiAlON):

Percentage:	100 wt%		
CAS #:	N/A		
EC #:	N/A		

4. First Aid Procedures
Seek medical attention if symptoms persist. None None
Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Seek medical attention. Wash affected area with mild soap and water. Remove any
contaminated clothing. Seek medical attention. 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, except as powder
No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires use CO ₂ , sand, extinguishing powder.
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
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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store in the dark. Store apart from materials and conditions listed in section 10.
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. Provide sufficient ventilation to maintain concentration at or below threshold limit.
Exposure Controls and Personal Protection
1 mg/m ³ as Y, long-term value 1 mg/m ³ as Y, long-term value
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Dust Respirator Nitrile rubber gloves with minimum thickness of 0.11 mm Eye
Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long

9. P	hysical and Chemical Characteristics
Color	Off-white to grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
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:	Strong oxidizing agents, strong bases, strong acids, halogens
Incompatible Conditions:	Air, Light, Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, nitrogen oxides, aluminum oxide, silicon oxides
	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:	
Aggravated Medical Conditions:	N/A
riggiavated medical conditions.	
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
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:	Not hazardous for transportation.
Hazard Class:	N/A

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Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A

	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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