

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Titanium Oxide

1. Product and Company Identification		
Trade Name:	Aluminum titanium oxide	
Chemical Formula:	Al_2O_3 -Ti O_2	
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 #:	845-587-2436 / 845-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Warning	
Hazard Statements: Precautionary Statements:	H335: May cause respiratory irritation P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
recautionary statements.	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P501: Dispose of contents/container in accordance with local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	0	
Physical:	0	
	3. Composition	
Chemical Family:	Ceramic	
Additional Names:	Aluminum Titanate, Alumina titania	
Aluminum oxide (Al ₂ O ₃):	0.100	
Percentage:	0-100 wt%	
CAS #: EC #:	1344-28-1	
	215-691-6	
Titanium oxide (TiO ₂):	0.100	
Percentage: CAS #:	0-100 wt% 13463-67-7	
UA0 #:	13403-07-7	
EC #:	236-675-5	

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	
P	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	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.	
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.	
	isolate funori to prevent environmental pontition.	
	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-Alexienia Maintenana.	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.	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator Not required	
Protective Gloves:	Rubber gloves Not required	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	

Flash Point: N/A Autoignition Temperature: N/A Density: ~3 g/cc Molecular weight: N/A 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: N/A Incompatible Conditions: None Hazardous Decomposition Products: N/A Incompatible Effects: Eyes: Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A	9. P	hysical and Chemical Characteristics
Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: Odorless Water Solubility: Insoluble Boiling Point: N/A Melting Point: N/A Autoignition Temperature: N/A Autoignition Temperature: N/A Density: ~3 g/cc Molecular weight: N/A 10. Reactivity Stabile under recommended storage conditions Reacts With: N/A Incompatible Conditions: None Hazardous Decomposition Products: N/A 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Skin: May cause irritation Inhalation: May cause irritation Signs & Symptoms: Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No	Color	White
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Persistent Bioaccumulation Toxicity: No		12. Ecological Information
	Aquatic Toxicity:	Low
		No
Notes: N/A	•	
13. Disposal Considerations		13. Disposal Considerations

14. Transportation Data		
Hazardous:	Not hazardous for transportation.	
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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07/27/2015

