

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

## 1. Product and Company Identification Trade Name: Aluminum titanium oxide Chemical Formula: Al<sub>2</sub>TiO<sub>5</sub> Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg New York State: 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: Warning stories, Inc Hazard Statements: H335: May cause respiratory irritation **Precautionary Statements:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312: Call a POISON CENTER or doctor/physician if you feel unwell 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: 0 Physical: 0 3. Composition Chemical Family: Ceramic Additional Names: Aluminum Titanate Aluminum titanium oxide (Al<sub>2</sub>TiO<sub>5</sub>): 100 wt% Percentage: CAS #: 12004-39-6 EC #: 234-456-9

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		
Evec.	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove		
Eyes:	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.		
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	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		
XX7 1 // Y · · · X · ·	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		
ventilation.	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.		
	sice ves/pains.		

9. F	Physical and Chemical Characteristics
Color	White
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:	~3 g/cc
Molecular weight:	181.83 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	N/A
Incompatible Conditions:	None
Hazardous Decomposition Products:	N/A
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritation
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
	Later - Besearch
Signs & Symptoms:	N/A hybrid konstories log
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

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	
No	
N/A	
No	
	No N/A

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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