

LTS Research Laboratories, Inc. Safety Data Sheet Aluminum Titanium Tantalum Alloy

1. Product and Company Identification

Trade Name: Aluminum titanium tantalum alloy

Chemical Formula: Al/Ti/Ta

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:NoneHazard Statements:NonePrecautionary Statements:None

HMIS Health Ratings (0-4):

Health:

Flammability:

Physical:

Research

3. Composition

Chemical Family: Alloy Additional Names: None

Aluminum (Al):

Percentage: 0-100 wt% CAS #: 7429-90-5 EC #: 231-072-3

Titanium (Ti):

Percentage: 0-100 wt% CAS #: 7440-32-6 EC #: 231-142-3

Tantalum (Ta):

Percentage: 0-100 wt% CAS #: 7440-25-7 EC #: 231-135-5

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

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

Spec. Fire Fighting Procedure:

Extinguishing Media: Do not use water for metal fires – use CO₂, 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

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

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: 5 mg/m³ as Ta metal respirable fraction, long-term value

Threshold Limit Value: 1 mg/m³ as Al respirable fraction, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics			
Color	Silvery-white		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point: Melting Point: Flash Point: Autoignition Temperature:	N/A N/A N/A N/A		
		Density:	N/A
		Molecular weight:	N/A
			10. Reactivity
Stability:	Stable under recommended storage conditions		
Reacts With:	Acids, Oxidizing agents		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Titanium oxides, Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
	May agged imitation		
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/A		
G: 0 G	Research		
Signs & Symptoms:	N/A Statement Inc.		
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:	Not hazardous for transportation.		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		
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	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	Yes: Aluminum	
	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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