

## LTS Research Laboratories, Inc. Safety Data Sheet Titanium Aluminide

	1. Product and Company Identification
Trade Name:	Titanium aluminide
Chemical Formula:	TiAl <sub>3</sub>
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:	Danger
Hazard Statements:	H228: Flammable solid H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No
	smoking
	P261 Avoid breathing dust/fume/vapor
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses if present and easy to do –
	continue rinsing
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection
	P405: Store locked up
	P501: Dispose of contents/container in accordance with
	local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	1
	1
Flammability: Physical:	2 1

Ceramic Titanium trialuminum, Titanium trialuminum
Titanium trialuminum Titanium trialuminum
100 wt%
12004-78-3
234-461-6
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
Wash affected area with mild soap and water. Remove any
contaminated clothing.
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
Do not use water for metal fires – use 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 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.
-

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	5 mg/m <sup>3</sup> as Al, long-term value	
Threshold Limit Value:	5 mg/m <sup>3</sup> as Al, long-term value	
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. P	hysical and Chemical Characteristics	
Color	Grey	
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:	N/A	
Molecular weight:	128.81 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None None Nonetories. Inc.	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:	Course arrive and demonst	
Eyes:	Causes serious eye damage.	
Skin:	Causes irritation	
Ingestion: Inhalation:	May cause irritation	
	May cause irritation Aluminum may be implicated in Alzheimer's disease. Inhalation of	
Chronic:		
	aluminum containing dusts may cause pulmonary disease.	
	Titanium compounds are considered physiologically inert. There are no	
	reported cases in the literature where titanium as such has caused human intoxication	
Signs & Symptoms:	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.
				TRAMMABLE SOLID
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives			
Packing Group:	II			
UN Number:	UN3178			
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Titanium aluminide)			
	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 informati			

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.

Document Last Revised:

07/02/2015