

LTS Research Laboratories, Inc. Safety Data Sheet Zirconium Titanium

1. Product and Company Identification		
Trade Name:	Zirconium titanium	
Chemical Formula:	Zr-Ti	
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	
	research	
Hazard Statements:	H228: Flammable solid H252: Self-heating in large quantities: may catch fire	
	H252: Self-heating in large quantities; may catch fire P210: Keep away from heat/sparks/open flames/hot surfaces – No	
Hazard Statements: Precautionary Statements:	H252: Self-heating in large quantities; may catch fire P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking	
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3. Composition		
Chemical Family:	Metal alloy	
Additional Names:	None	
Zirconium (Zr):		
Percentage:	0-100 wt%	
CAS #:	7440-67-7	
EC #:	231-176-9	
Titanium (Ti):	0.100	
Percentage: CAS #:	0-100 wt% 7440-32-6	
EC #:	231-142-3	
	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:	Give one to two glasses of water and induce vomiting. Never induce	
	vomiting or give anything by mouth to an unconscious person.	
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, except as powder	
Extinguishing Media:	Do not use water for metal fires – use CO_2 , sand, extinguishing powder	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spee. The Fighting Floedure.	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.	
Environmental Dracoutieres	Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry	
	inert gas. 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	
Work/Hygienic Maintenance:	acting and amplying. Do not blow dust off slathing an aline with	
Work/Hygienic Maintenance:	eating and smoking. Do not blow dust off clothing or skin with	
Work/Hygienic Maintenance: Ventilation:	eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	5 mg/m ³ as Zr, long-term value	
Threshold Limit Value:	5 mg/m^3 as Zr, 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. Ph	nysical 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 N/A	
	N/A N/A	
Density: Molecular weight:	N/A N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Halogens, Halocarbons, Mineral acids, Oxidizing agents	
Incompatible Conditions:	Air,	
Hazardous Decomposition Products:	Metal oxide fume	
	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:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:		
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	N/A	

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data		
Hazardous:	Hazardous as powder only.	
	FLAMMABLE SOLID	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized	
Packing Group:	II	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Zirconium titanium)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
	N/A	
Sec 304 Reportable Quantities:		

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.

Document Last Revised:

Research 07/27/2015 bonatorias, Inc.