

LTS Research Laboratories, Inc. Safety Data Sheet Ytterbium Tellurium Alloy

1. Product and Company Identification

Trade Name: Ytterbium tellurium alloy

Chemical Formula: YbTe

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> 37 Ramland Road Street: Orangeburg City: State: New York 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: Danger



Hazard Statements: H228 Flammable solid

H260 In contact with water releases flammable gases which may ignite

spontaneously

H301: Toxic if swallowed H315: Causes skin irritation H319: Causes serious eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P210 Keep away from heat/sparks. No smoking.

P231+P232 Handle under inert gas. Protect from moisture

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P312: Call a POISON CENTER or doctor/physician if you feel unwell P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P370+P378 In case of fire: use special powder for metal fires P402+P404: Store in a dry place. Store in a closed container P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

bulk pieces powder Health: 1 1 2 3 Flammability: 0 0 2 Physical: 0 1

	3. Composition			
Chemical Family: Additional Names:	Alloy None			
Ytterbium (Yb):				
Percentage:	0-100 wt%			
CAS #:	7440-64-4			
EC #:	231-173-2			
Tellurium (Te):				
Percentage:	0-100 wt%			
CAS #:	13494-80-9			
EC #:	236-813-4			
	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 C			
Flammability:	Flammable as powder Contact with water releases flammable gases			
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , 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.			
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.			
	Formation Political			
	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 inert			
Work/Hygienic Maintenance:	gas. 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			
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.			

8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.1 mg/m³ as Te, long-term value Threshold Limit Value: 0.1 mg/m³ as Te, long-term value Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color N/A Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: Liberates flammable gas (Ytterbium) Water Solubility: **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A Molecular weight: N/A 10. Reactivity Stable under recommended storage conditions Stability: Water, Acids, Bases, Halogens, Interhalogens, Oxidizing agents Reacts with: Incompatible Conditions/Materials: Moisture, Air, Oxidizing agents, Acids, Halogens, Acid Chlorides, Metal oxide fume, Hydrogen telluride Hazardous Decomposition Products: 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye damage Skin: Causes skin irritation Ingestion: May cause irritation May cause irritation Inhalation: Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: 83 mg/kg for rat by mouth (Tellurium) N/A Carcinogen: 12. Ecological Information

Low

Aquatic Toxicity: 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 as powder only



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Secondary Hazard Class: 6.1 Toxic substances.

Packing Group:

UN Number: UN3089, UN3288

Proper Shipping Name: Metal powders, flammable, n.o.s. (Ytterbium tellurium alloy)

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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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