

# LTS Research Laboratories, Inc. Safety Data Sheet Tungsten Titanium Alloy

## 1. Product and Company Identification

Trade Name: Tungsten titanium

Chemical Formula: W-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: Warning



Hazard Statements: H228 Flammable solid (powder)

Precautionary Statements: P210 Keep away from heat/sparks/flame. No smoking.

HMIS Health Ratings (0-4):

Health:
Flammability:
Physical:
Powder
Bulk
0
0
0

### 3. Composition

Chemical Family: Metal alloy Additional Names: Tungsten-ti

Tungsten (W):

Percentage: 90 wt% (typically) CAS #: 7440-33-7

EC #: 231-143-9

Titanium (Ti):

Percentage: 10 wt% (typically)

CAS #: 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: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO <sub>2</sub> , 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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	10 mg/m <sup>3</sup> as W or W-insoluble compounds, short-term value 5 mg/m <sup>3</sup> as W or W-insoluble compounds, long-term value
Threshold Limit Value:	10 mg/m <sup>3</sup> as W, short-term value 5 mg/m <sup>3</sup> as W, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long
200, 11000000000	sleeves/pants.

9. Physical and Chemical Characteristics		
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Form:	Metallic grey  Powder Granules Pollets Sputtering target Cyctom parts	
Odor:	Powder, Granules, Pellets, Sputtering target, Custom parts Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	~2000 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	14.4 g/cc	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, Acids	
Incompatible Conditions:	None	
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	
	Research	
Signs & Symptoms:	N/A horatories, 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: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids

Packing Group: III UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Tungsten titanium)

# 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 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.

Research

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