

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

	1. Product and Company Identification
Trade Name:	Tungsten Tantalum Alloy
Chemical Formula:	WTa
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 (powder) H315: Causes skin irritation H319: Causes serious eye irritation
	H335: May cause respiratory irritation
Precautionary Statements:	<ul> <li>P210: Keep away from heat/sparks/flame. No smoking.</li> <li>P240: Ground/bond container and receiving equipment.</li> <li>P241: Use explosion-proof electrical/ventilating/light/ equipment</li> <li>P261: Avoid breathing dust/fume/gas/mist/vapours/spray</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P304+P340: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing</li> <li>P370+P378: In case of fire, use CO2 or powder for metal fires for extinction</li> <li>P405: Store locked up</li> <li>P501 : Dispose of contents/container in accordance with local/regional/national/international regulations</li> </ul>

HMIS Health Ratings (0-4):	Powder	Bulk
Health:	1	1
Flammability:	3	0
Physical:	1	1

	3. Composition
Chemical Family:	Metal Alloy
Additional Names:	Tantalum Tungsten Alloy
Tungsten (W):	
Percentage:	0-100 wt%
CAS #:	7440-33-7
EC #:	231-143-9
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.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
-	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
– Flammability:	Non-flammable, except as powder
r fannhaðinty.	Non-manimable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO2, sand, extinguishing powder
Spec. Fire Fighting Procedure:	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. Keep unprotected persons away. 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. Keep away from
Environmental Precautions:	ignition sources. Isolate runoff to prevent environmental pollution.
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	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	acids and oxidizing agents. 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. E	Exposure Controls and Personal Protection
Permissible Exposure Limits:	5 mg/m <sup>3</sup> as W, time weighted average
-	5 mg/m <sup>3</sup> as Ta, long-term value
Threshold Limit Value:	$5 \text{ mg/m}^3$ as W, long-term value
	10 mg/m <sup>3</sup> as W, short-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous
	chemicals and having an average face velocity of at least 100 feet per
	minute.
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if air-purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants, ponstorias, Inc.
9	. Physical and Chemical Characteristics
Color	Metallic grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Insoluble
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:	Bromine, chloride trifluoride, Potassium dichromate, Nitryl Fluoride,
Stability: Reacts With:	bronnic, emorace unitabilitie, i otassium diemoniate, iviti yr i iaonae,
	Fluorine, Oxygen difluoride, Hydrogen sulfide gas, Peroxides, lead
	Fluorine, Oxygen difluoride, Hydrogen sulfide gas, Peroxides, lead oxide, Oxidizing agents, Oxygen, Halogens, Strong bases, Hydrogen
Reacts With:	Fluorine, Oxygen difluoride, Hydrogen sulfide gas, Peroxides, lead oxide, Oxidizing agents, Oxygen, Halogens, Strong bases, Hydrogen fluoride
	Fluorine, Oxygen difluoride, Hydrogen sulfide gas, Peroxides, lead oxide, Oxidizing agents, Oxygen, Halogens, Strong bases, Hydrogen

## 11. Toxicological Information

Eyes: Skin: Ingestion:	May cause irritation Causes skin irritation May cause irritation
Ingestion: Inhalation:	May cause irritation May cause respiratory irritation
Chronic:	N/A
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Do not allow material to be released to the environment without proper governmental permits. Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
	PLAMMABLE SOLID
Hazard Class:	4.1 Flammable solids
Packing Group:	II
UN Number: Proper Shipping Name:	UN3089 Metal powder, flammable, n.o.s. (Tungsten Tantalum Alloy)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A 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.

Document Last Revised:

08/06/2019

