

## LTS Research Laboratories, Inc. Safety Data Sheet Tantalum Metal

1. Product and Company Identification		
Trade Name:	Tantalum metal	
Chemical Formula:	Та	
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	
	esearch	
	herstories, Inc.	
Hazard Statements:	H228: Flammable solid (powder) H319: Causes serious eye irritation	
Precautionary Statements:	P210: Keep away from heat/sparks/flame. No smoking	
	P240: Ground/bond container and receiving equipment	
	P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment	
	P280: Wear protective gloves/ eye protection/ face protection	
	P305+P351: If in eyes: Rinse cautiously with water for several minute	
	P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish	
UMIS Health Datings (0, 4).	Powder Pieces & larger	
HMIS Health Ratings (0-4): Health:	$1 \qquad 0$	
Flammability:	$ \frac{1}{3}  0 $	
Physical:	$1 \qquad 0$	
	3. Composition	
Chemical Family:	Metal	
Additional Names:	Tantalium	
Tantalum (Ta):		
Percentage:	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 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
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
2,00.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , 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. 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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
	Exposure Controls and Personal Protection
Permissible Exposure Limits:	5 mg/m <sup>3</sup> as Ta, long-term value
Threshold Limit Value:	N/A
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	Dark metallic grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	5425 °C
Melting Point:	2996 °C
Flash Point:	N/A
Autoignition Temperature:	263 °C
Density:	16.69 g/cc
Molecular weight:	180.948 g/mol
	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 serious irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
	www.colaResearch
Signs & Symptoms:	N/A Sonstorias, Inc.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	LD50 Oral- 2000 mg/kg for rat by mouth
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.

Hazardous as powder only.
4
4.1 Flammable solids
II
UN3089
Metal powder, flammable, n.o.s. (Tantalum)
15. Regulatory Information
No
N/A
No

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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Research 08/25/2023 honatorias, Inc.