Stanford Advanced Materials Safety Data Sheet Tantalum Tungsten Alloy

1. Product and Company Identification			
Trade Name:	Tantalum tur	gsten alloy	
Chemical Formula:	Ta/W		
Recommended Use:	Scientific res	earch and development	
Manufacturer/Supplier:	Stanford Advanced Materials		
Street:	23661 Birtch	er Dr.	
City:	Lake Forest		
State:	CA		
Zip Code:	92630		
Country:	USA		
Tel #:	(949) 407 89	04	
24-Hour Emergency Contact:	(949) 407 89	04	
	2. Hazards l	dentification	
Signal Word:	Danger		
Hazard Statements:	H319: Cause	nable solid s skin irritation s serious eye irritation ause respiratory irritation	
Precautionary Statements:	P210: Keep a	ause respiratory irritation	
	smoking		
	P261 Avoid breathing dust/fume/vapor		
	P280: Wear protective gloves/protective clothing/eye protection/face		
	protection P304+P340: IF INHALED: Remove victim to fresh air and keep at re		
	in a position comfortable for breathing		
	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 CO_2 or powder for extinction		
	P405: Store locked up		
		oeked up	
	P405: Store 1	be of contents/container in accordance with	
	P405: Store 1 P501: Dispos		
HMIS Health Ratings (0-4):	P405: Store l P501: Dispos local/regiona Powder	e of contents/container in accordance with l/national/international regulations Bulk	
Health:	P405: Store 1 P501: Dispos local/regiona Powder 1	e of contents/container in accordance with l/national/international regulations Bulk 1	
-	P405: Store l P501: Dispos local/regiona Powder	e of contents/container in accordance with l/national/international regulations Bulk	

3. Composition		
Chemical Family:	Alloy	
Additional Names:	None	
Tantalum (Ta):		
Percentage:	0-100 wt%	
CAS #:	7440-25-7	
EC #:	231-135-5	
Tungsten (W):		
Percentage:	0-100 wt%	
CAS #:	7440-33-7	
EC #:	231-143-9	
	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	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Do not use water for metal fires – use CO_2 or 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	
Work/Hygienic Maintenance:	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	

8. Exp	osure Controls and Personal Protection	
Permissible Exposure Limits:	5 mg/m ³ as Ta metal, long-term value	
Threshold Limit Value:	5 mg/m^3 as W, long-term value	
	10 mg/m ³ as W, short-term value	
Special Equipment:	None	
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a	
1 2	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	
body i foteetion.	sleeves/pants.	
9. P	hysical and Chemical Characteristics	
Color	Mettalic	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	3020-3422 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Tantalum oxide, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Causes 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:	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 solid, self-reactive substances and solid desensitized explosives
Packing Group:	II			
UN Number:	UN3089			
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Tantalum tungsten alloy)			
	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.

Document Last Revised:

07/02/2015