

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

Tantalum silicon alloy
Ta/Si
Scientific research and development
LTS Research Laboratories, Inc.
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2. Hazards Identification
Danger
H228: Flammable solid H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261 Avoid breathing dust/fume/vapor
P280: Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338: IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405: Store locked up
P501: Dispose of contents/container in accordance with local/regional/national/international regulations
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1
1 3 (powder)

3. Composition		
Alloy		
None		
0-100 wt%		
7440-25-7		
231-135-5		
0-100 wt%		
7440-21-3		
231-130-8		
4. First Aid Procedures		
Seek medical attention if symptoms persist.		
None		
None		
Remove victim to fresh air. Supply oxygen if breathing is difficult.		
Seek medical attention.		
Wash affected area with mild soap and water. Remove any		
contaminated clothing.		
Flush eyes with water, blinking often for several minutes. Remove		
contact lenses if present and easy to do. Continue rinsing		
5. Firefighting Measures		
Non-flammable, except as powder		
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		
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.		
Isolate runoff to prevent environmental pollution.		
7. Handling and Storage		
Wash thoroughly after handling.		
Store in a cool dry place in a tightly sealed container. Store apart from		
materials and conditions listed in section 10.		
$1 \times 1 \times$		
Do not use tobacco or food in work area. Wash thoroughly before		
eating and smoking. Do not blow dust off clothing or skin with		

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits: Threshold Limit Value:	5 mg/m <sup>3</sup> as Tantalum metal, long-term value N/A	
Special Equipment:	None	
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.	
9. P	hysical and Chemical Characteristics	
Color	Metallic grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
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	
Stability:	Stable under recommended storage conditions	
Reacts With:	Acids, Halogens, Interhalogens, Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Tantalum oxide, Silicon oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation: Chronic:	May cause irritation N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	3160 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:	Hazardous as powder only.	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives	
Packing Group:	III	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Tantalum silicon)	
	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	

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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