

Safety Data Sheet Tantalum Sulfide

1. Product and Company Identification

Trade Name: Tantalum sulfide

Chemical Formula: TaS₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: Stanford Advanced Materials

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

Tel: (949) 407-8904 Fax: (949) 812-6690

Emergency Contact: (949) 407-8904

(This telephone number is available 24 hours per day, 7 days per week.)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 1
Physical: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Tantalum disulfide

Tantalum sulfide (TaS_2):

Percentage: 100 wt% CAS #: 12143-72-5 EC #: NIL

	4. First Aid Procedures	
General Treatment: Special Treatment: mportant Symptoms:	Seek medical attention if symptoms persist. None None	:
Inhalation: Ingestion: Skin:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek Medical Attention. Wash affected area with mild soap and water. Remove any	٠٠,
Eyes:	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	:
Flammability:	Non-flammable	
Extinguishing Media:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	٠٠,
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: Environmental Precautions:	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	,
Handling Conditions: Storage Conditions: Work/Hygienic Maintenance:	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. 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	٠٠,
	threshold limit.	
8. E	xposure Controls and Personal Protection	
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A	:
Special Equipment: Respiratory Protection: Protective Gloves:	None Dust Respirator Rubber gloves	٠٠,
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.	·:

	9. Physical and Chemical Characteria	stics					
Color Form: Odor: Water Solubility:	Rotten eggs smell Insoluble	Powder, Granules, Pellets, Sputtering target, Custom parts Rotten eggs smell Insoluble					
Boiling Point: Melting Point: Flash Point: Autoignition Temperature:	N/A 3000 °C N/A N/A		٠٠.		: ' '		
Density: Molecular weight:	6.86 g/cc 245.08 g/mol	.;	`: -		.;		
	10. Reactivity		:	'			
Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products:	Stable under recommended st Acids, Halogens, Alkali meta None Hydrogen sulfide, Sulfur oxid	ls, Oxidiz	zing agei		:**		
	11. Toxicological Information	.:	':		.:		
Potential Health Effects: Eyes:	May cause irritation		:				
Skin: Ingestion: Inhalation:	May cause irritation May cause irritation May cause irritation		;				
Chronic: Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A N/A	: • •	٠٠,		: ' '		
Median Lethal Dose:	N/A N/A	.:	1		.1		
Carcinogen:	N/A		:				
	12. Ecological Information						
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulativ		: ' '	٠٠.		: ' '		
Notes:	N/A	.:	':		.:		
	13. Disposal Considerations						
Dispose of in accordance with local, s	ate, national, and international regul	ations.		. '			
	14. Transportation Data						
Hazardous: Hazard Class:	Not hazardous for transportati	ion.		,			
Packing Group: UN Number: Proper Shipping Name:	N/A N/A N/A	.:	·:		.:		

	15. Regulatory Information			;	,	
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A No	"		:	e.	
	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.

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