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1. Product and Company Identification				
Trade Name:	Tantalum tel	luride		
Chemical Formula:	TaTe <sub>2</sub>			
Recommended Use:	Scientific res	Scientific research and development		
Manufacturer/Supplier:	Stanford Adv	Stanford Advanced Materials		
Street:	23661 Birtch	er Dr.		
City:	Lake Forest			
State:	California			
Zip	92630			
Country:	USA			
Tel #:	(949) 407-89	04		
	2. Hazards I	dentification		
Signal Word:	Danger	<u> </u>		
Hazard Statements:	H319: Cause H332: Harmi	s skin irritation s serious eye irritation ful if inhaled ause respiratory irritation		
Precautionary Statements:		breathing dust/fume/vapor protective gloves/protective clothing/eye protection/face		
	protection P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician			
	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest			
	in a position comfortable for breathing P312: Call a POISON CENTER or doctor/physician if you feel unwell			
	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			
HMIS Health Ratings (0-4):	Powder	Bulk		
Health:	2	1		
Flammability:	1	0		
Physical:	1	0		
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(IV) telluride, Tantalum ditelluride -2 4 Aid Procedures lical attention if symptoms persist. victim to fresh air. Supply oxygen if breathing is difficult. to two glasses of water and induce vomiting. Never induce or give anything by mouth to an unconscious person. ected area with mild soap and water. Remove any ated clothing. Is with water, blinking often for several minutes. Remove		
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Flush eyes with water, blinking often for several minutes. Remove		
nses if present and easy to do. Continue rinsing		
ghting Measures		
mable, except as powder		
e water for metal fires – use CO <sub>2</sub> , sand, extinguishing powder		
ace, self-contained breathing apparatus with full protective		
o prevent contact with skin and eyes. See section 10 for		
sition products.		
al Release Measures		
ropriate respiratory and protective equipment specified in		
otection information. Isolate spill area and provide		
n. Vacuum up spill using a high efficiency particulate		
(HEPA) air filter and place in a closed container for disposal.		
e not to raise dust.		
noff to prevent environmental pollution.		
ling and Storage		
roughly after handling.		
cool dry place in a tightly sealed container. Store apart from		
and conditions listed in section 10.		
e tobacco or food in work area. Wash thoroughly before		
te tobacco or food in work area. Wash thoroughly before d smoking. Do not blow dust off clothing or skin with		
e tobacco or food in work area. Wash thoroughly before		

8. Exposure Controls and Personal Protection				
Permissible Exposure Limits:	$0.1 \text{ mg/m}^3$ as Te, long-term value			
Threshold Limit Value:	$0.1 \text{ mg/m}^3$ as Te, long-term value			
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. I	Physical and Chemical Characteristics			
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Color	White/Dark, silver 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:	9.4 g/cc			
Molecular weight:	436.15 g/mol			
Wolceular weight.	+50.15 g/mor			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Acids, Bases, Halogens, Interhalogens, Oxidizing agents			
Incompatible Conditions:	None			
Hazardous Decomposition Products:	Hydrogen telluride, Tantalum oxide, Metal oxide fume			
	11. Toxicological Information			
Potential Health Effects:	Courses serious ave domage			
Eyes:	Causes serious eye damage			
Skin:	Causes irritation			
Ingestion:	May cause irritation			
Inhalation:	Harmful			
Chronic:	N/A			
Signs & Symptoms: Aggravated	N/A			
Medical Conditions:	N/A			
Median Lethal Dose:	83 mg/kg for rat by mouth			
Median Lethal Concentration:	>2420 mg/m <sup>3</sup> /4hr			
Carcinogen:	N/A			
	12. Ecological Information			
Aquatic Toxicity:	Low			
Aqualle Toxicity.				
	No			
Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	No No			

13. Di	sposal	Consid	lerations
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14. Transportation Data				
Hazardous:	Hazardous as powder only.			
	POISON 6			
Hazard Class:	6.1 Toxic substances			
Packing Group:	III			
UN Number:	UN3284			
Proper Shipping Name:	Tellurium compound, solid, n.o.s. (Tantalum telluride)			
	15. Regulatory Information			
Sec 302 Extremely Hazardous:	No			
Sec 304 Reportable Quantities:	N/A			
Sec 313 Toxic Chemicals:	Yes			
	16. Other Information			

## Dispose of in accordance with local, state, national, and international regulations.

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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