

## LTS Research Laboratories, Inc. Safety Data Sheet Samarium Tellurium Alloy

	1. Product and Company Identification
Trade Name:	Samarium Tellurium alloy
Chemical Formula:	SmTe
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
	10962
Zip Code:	
Country: Tel #:	USA 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
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	la la constantes, inc.
Hazard Statemantes	U229 Elemmehle solid
Hazard Statements:	H228 Flammable solid.
Hazard Statements:	H261 In contact with water releases flammable gases.
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HMIS Health Ratings (0-4):	Powder	Bulk
Health:	2	1
Flammability:	3	1
Physical:	2	1

	3. Composition
Chemical Family:	Alloy
Additional Names:	None
Samarium (Sm):	
Percentage:	0-100 wt%
CAS #:	7440-19-9
EC #:	231-128-7
Tellurium (Te):	
Percentage:	0-100 wt%
CAS #:	13494-80-9
EC #:	236-813-4
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	Immediately remove any clothing soiled by the product. In case of
Special Heatmont.	irregular breathing or respiratory arrest provide artificial respiration.
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
5	person. Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	Flush eyes with water for several minutes. Remove contact lenses if
•	present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Flammable as powder
Extinguishing Media:	Do not use water for metal fires – use dry 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
6	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.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	0.1 mg/m <sup>3</sup> as Te, long-term value
Threshold Limit Value:	0.1 mg/m <sup>3</sup> as Te, long-term value
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.
9.1	Physical and Chemical Characteristics
Color	Silver grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Reacts
Boiling Point:	N/A Vitakoratorias log
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:	Oxidizing agents, water, acids, bases, air, halogens, acid chlorides,
Incompatible Conditioner	Air maisture extreme term direct curlicht
Incompatible Conditions: Hazardous Decomposition Products:	Air, moisture, extreme temp, direct sunlight. Metal oxide fume, Hydrogen telluride
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes skin irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Rare earth compounds may cause delayed blood clotting leading to
	hemorrhages. Inhalation of rare earths may cause sensitivity to heat,
	itching, and increased awareness of odor and taste., Abdominal pain,
	Nausea, Vomiting, Salivation, fatigue, Dizziness, Confusion.,
	Palpitation, Ataxia., To the best of our knowledge, the chemical,
	physical, and toxicological properties have not been thoroughly
	investigated.
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Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A
Median Lethal Dose:	83 mg/kg for rat by mouth for Tellurium
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
	FLAMMABLE SOLID POISON
	Be 6 rch
Hazard Class:	4.1 Flammable solids
Secondary Hazard Class:	6.1 Toxic Substances
Packing Group:	PG II
UN Number:	UN3089, UN3284
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Samarium Tellurium alloy)
Hazardous:	Hazardous for transportation
	POISON 6
Hazard Class:	6.1 Toxic Substances
Packing Group:	III
UN Number:	UN3284
Proper Shipping Name:	Tellurium Compound, n.o.s. (Samarium Tellurium 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:

04/02/2018

