

LTS Research Laboratories, Inc. Safety Data Sheet Antimony telluride

1. Product and Company Identification

Trade Name: Antimony telluride

Chemical Formula: Sb₂Te₃

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 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: Warning



Hazard Statements: H302+H322 Harmful if swallowed or inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P264 Wash thoroughly after handling

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

in a position comfortable for breathing

P301+P312 IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Antimony (III) telluride

Antimony Telluride (Sb₂Te₃):

Percentage: 100 wt% CAS #: 1327-50-0 EC #: 215-480-9

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention Ingestion: Wash affected area with mild soap and water. Skin: Flush eyes with water, blinking often for several minutes. Eyes: 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: CO₂, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: 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. Isolate runoff to prevent environmental pollution. **Environmental Precautions:** Research 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** materials and conditions listed in section 10. 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 threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.5 mg/m³ as Sb, long-term value Threshold Limit Value: 0.5 mg/m³ as Sb, long-term value None **Special Equipment: Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Safety glasses or goggles Eve Protection: Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

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9. Physical and Chemical Characteristics				
Color	Grey			
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts			
Odor:	Odorless			
Water Solubility:	Insoluble			
Boiling Point:	N/A			
Melting Point:	629 °C			
Flash Point:	N/A			
Autoignition Temperature:	N/A			
Density:	6.5 g/cc			
Molecular weight:	626.32 g/mol			
	10. Reactivity			
Stability:	Stable under recommended storage conditions			
Reacts With:	Oxidizing agents			
Incompatible Conditions:	None			
Hazardous Decomposition Products:	Tellurium dioxide (TeO ₂)			
	Antimony oxides			
	11. Toxicological Information			
Potential Health Effects:				
Eyes:	May cause irritation			
Skin:	May cause irritation			
Ingestion:	Harmful			
Inhalation:	on: Harmful			
Chronic:	N/A Research			
	hgretories, Inc.			
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:	Toxic to aquatic life			
	May cause long lasting harmful effects to aquatic life			

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as pieces and powder



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN1549

Proper Shipping Name: Antimony compounds, inorganic, solid, n.o.s. (Antimony (III) telluride)

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Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

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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