

LTS Research Laboratories, Inc. Safety Data Sheet Germanium Arsenic Telluride

1. Product and Company Identification

Trade Name:	Germanium Arsenic Telluride
Chemical Formula:	GeAsTe
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:	Danger
Hazard Statements:	H228: Flammable solid
	H301+H311: Toxic if swallowed or in contact with skin H315: Causes skin irritation H317: May cause an allergic skin reaction H319: Causes serious eye irritation H332: Harmful if inhaled H335: May cause respiratory irritation
	H360: May damage fertility or the unborn child H410: Very toxic to aquatic life with long lasting effects.
	H410: Very toxic to aquate the with long fasting effects. H413: May cause long lasting harmful effects to aquatic life
	11415. May cause long lasting narmful effects to aquatic fife
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood
	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P240: Ground/bond container and receiving equipment
	P241: Use explosion-proof electrical/ventilating/light/ equipment
	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
	P271: Use only outdoors or in a well-ventilated area
	P272: Contaminated work clothing must not be allowed out of the workplace
	P273: Avoid release to the environment
	P280: Wear protective gloves/ protective clothing/ eye protection/ face protection
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER
	or doctor/physician P302 + P352: IF ON SKIN: Wash with plenty of soap and water

	keep comfor you feel unw P305+P351+ several minu continue rins P308 + P313 P333 + P313 attention P363: Wash P370+P378: resistant foar P403+P233 S closed P405: Store I	 -P338: IF IN EYES: Rinse cautiously with water for tes. Remove contact lenses if present and easy to do – sing 2: IF exposed or concerned: Get medical advice/ attention 3: If skin irritation or rash occurs: Get medical advice/ contaminated clothing before reuse In case of fire: Use dry sand, dry chemical or alcohol m for extinction Store in a well-ventilated place. Keep container tightly
		l/national/international regulations
	1000011081010	
HMIS Health Ratings (0-4):	Powder	Pieces
Health:	3	2
Flammability:	1	0
Physical:	3	1

	3. Composition
Chemical Family:	Alloy
Additional Names:	Germanium Arsenic Tellurium Alloy
Tellurium (Te): Percentage: CAS #: EC #:	0-100 wt% 13494-80-9 236-813-4
Germanium (Ge):	
Percentage:	0-100 wt%
CAS #:	7440-56-4
EC #:	231-164-3
Arsenic (As):	
Percentage:	0-100 wt%
CAS #:	7440-38-2
EC #:	231-148-6

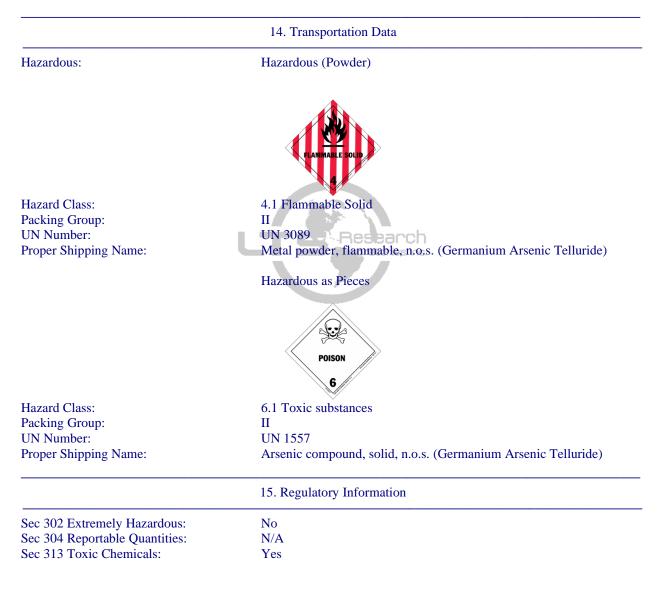
4. First Aid Procedures		
General Treatment:	Remove any contaminated clothing Remove breathing apparatus only after contaminated clothing has been completely removed Supply oxygen if breathing is difficult Seek medical attention if symptoms persist	
Special Treatment:	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.	
Important Symptoms:	None	
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Do NOT induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medica attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Media: Spec. Fire Fighting Procedure:	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	
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. Remove all ignition sources. Evacuate personnel away from dangerous areas. Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from	
Work/Hygienic Maintenance:	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 threshold limit.	

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Permissible Exposure Limits:	0.5* 0.01** mg/m3 as As, long-term value *organic **inorganic
	0.1 mg/m3 as Te, long-term value
Threshold Limit Value:	0.01 mg/m3 as As, long-term value
	0.1 mg/m3 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:	Nitrile rubber, NBR 0.11mm thick.
Penetration time of glove material:	480 minutes
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9	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:	N/A
Flash Point:	N/A
Autoignition Temperature:	
Density: Molecular weight:	N/A BESBarch N/A Besbarch
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Halogens, Acids, Bases, Interhalogens, Oxidizing agents, Zinc,
	Cadmium, Sodium/sodium oxides, Potassium
Incompatible Conditions:	Heat, flames, sparks and direct sunlight, Air, Avoid dust formation
Hazardous Decomposition Products:	Toxic metal oxide fume , Germanium Oxide, Arsenic oxides, Hydrogen telluride
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	May cause irritation
Ingestion:	Toxic if swalled
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A

	12. Ecological Information
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	N/Ă
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Very toxic to aquatic life
	Keep away from any water sources
	May cause long lasting harmful effects to aquatic life.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.



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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