

LTS Research Laboratories, Inc. Safety Data Sheet Selenium Germanium

	1. Product and Company Identification
Trade Name:	Selenium Germanium
Chemical Formula:	SeGe
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+H331: Toxic if swallowed, in contact with skin or if inhaled H315: Causes skin irritation H319: Causes serious eye irritation H373: May cause damage to organs through prolonged or repeated exposure H410: Very toxic to aquatic life with long lasting effects
Precautionary Statements:	 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 P260: Do not breathe dust/fume/gas/mist/vapors/spray P261: Avoid breathing dust/fume/vapor P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P310: IF SWALLOWED: Immediately call a POISON CENTEI or doctor/physicianP304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing 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:	3	0

	3. Composition
Chemical Family:	Inorganic Material
Additional Names:	N/A
Selenium (Se):	
Percentage:	0-100 wt%
CAS #:	7782-49-2
EC #:	231-957-4
Germanium (Ge):	
Percentage:	0-100 wt%
CAS #:	7440-56-4
EC #:	231-164-3
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce
	vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	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, except as powder
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire.
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
C	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	sposure Controls and Personal Protection
Permissible Exposure Limits:	0.2 mg/m ³ as Se, long-term value
Threshold Limit Value:	0.2 mg/m ³ as Se, 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.	Physical and Chemical Characteristics
Color	Gray
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble Research
Boiling Point:	N/A http://www.inc.
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:	Halogen, Oxidizing agents
Incompatible Conditions:	Exposure to heat, flames, sparks and direct sunlight
Hazardous Decomposition Products:	Selenium oxide, Germanium oxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	Toxic if in contact with skin
Ingestion: Inhalation:	Toxic if swallowed Toxic if inhaled
Chronic:	May cause damage to organs through prolonged or repeated exposure
	N7/4
Signs & Symptoms:	N/A
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A

	12. Ecological Information
Aquatic Toxicity:	Very toxic to aquatic life with long lasting effects
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
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
	FLANMABLE SOLID POISON
Primary Hazard Class:	4.1 Toxic Substances
Secondary Hazard Class:	6.1 Flammable Solids
Packing Group:	III
UN Number:	UN3179
Proper Shipping Name:	Flammable solid, toxic, inorganic, n.o.s. (Selenium Germanium)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	N/A honstories, Inc.
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.

Document Last Revised:

10/01/2021