

LTS Research Laboratories, Inc. Safety Data Sheet Mercury selenide

	1. Product and Company Identification
Trade Name:	Mercury selenide
Chemical Formula:	HgSe
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
	Rev Arch
	New New York, inc.
Hazard Statements:	H301: Toxic if swallowed
	H330: Fatal if inhaled
	H360: May damage fertility or the unborn child
	H373: May cause damage to organs through prolonged or repeated
	exposure
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
	P264: Wash face, hands and any exposed skin thoroughly after
	handling
	P270: Do not eat, drink or smoke when using this product
	P271: Use only outdoors or in a well-ventilated area
	P281: Use personal protective equipment as required
	P284: Wear respiratory protection
	P301+P310+P330: IF SWALLOWED: Immediately call a POISON
	CENTER or doctor/physician. Rinse mouth
	P304+P340+P310: IF INHALED: Remove victim to fresh air and keep
	at rest in a position comfortable for breathing. Immediately call a
	POISON CENTER or doctor/physician
	P308+P313: IF exposed or concerned: Get medical advice/attention
	P403+P233: Store in a well-ventilated place. Keep container tightly
	closed
	P405: Store locked up
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	4
Flammability:	0
Physical:	0
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3. Composition		
Material Family:	Selenide	
Additional Names:	Mercury (II) selenide	
Mercury selenide (HgSe):		
Percentage:	100 wt%	
CAS #:	20601-83-6	
EC #:	243-910-5	
	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. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
_	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention	
	5. Firefighting Measures	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions use suitable extinguishing agent for	
Extinguishing Weena.	surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
1 8 8	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. Keep unprotected persons away.	
	Evacuate personnel to safe areas. 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.	
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe	
Standard Caraltit	vapors/dust. Do not ingest.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from	
	water/moisture, strong oxidizing agents. Store apart from materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	0.1 mg/m3 as Hg, long-term value	
Threshold Limit Value:	0.025 mg/m3 as Hg, long-term value	
Special Equipment:	Properly operating chemical fume hood designed for hazardous	
	chemicals and having an average face velocity of at least 100 feet per	
	minute.	
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	Grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	600°C - 650 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	8.27 g/cc	
Molecular weight:	279.55 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Strong oxidizing agents	
Incompatible Conditions:	N/A	
Hazardous Decomposition Products:	Metal oxide fume, mercury oxides, selenium oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	Toxic if swallowed	
Inhalation:	Fatal if inhaled	
Chronic:	May cause damage to organs through prolonged or repeated exposure	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	May damage fertility or the unborn child	
Median Lethal Dose:	N/A	
Carcinogen:	IARC: No component of this product present at levels greater than or	
	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
	ACGIH: No component of this product present at levels greater than	
	equal to 0.1% is identified as a carcinogen or potential carcinogen by	
	ACGIH. NTP: No component of this product present at lovels greater than or	
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by	
	NTP.	
	OSHA: No component of this product present at levels greater than o equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA	

OSHA.

	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	May persist due to material being insoluble in water N/A
Notes:	Very toxic to aquatic organisms.
	May cause long-term adverse effects in the aquatic environment.
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
	POISON 6
Hazard Class:	6.1 Poisonous material
Packing Group:	II
UN Number:	UN2025
Proper Shipping Name:	Mercury compound, solid, n.o.s (Mercury selenide)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	N/A
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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