

## LTS Research Laboratories, Inc. Safety Data Sheet Indium Selenide

	1. Product and Company Identification
Trade Name:	Indium Selenide
Chemical Formula:	InSe
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:	H301+H331: Toxic if swallowed or if inhaled
	H373: May cause damage to organs through prolonged or repeated
	exposure
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapours/spray
	P264: Wash thoroughly after handling P301+P310: IF SWALLOWED: Immediately call a POISON CENTED
	or doctor/physician
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res
	in a position comfortable for breathing
	P405: Store locked up
	P501: Dispose of contents/container in accordance with
	local/regional/national/international regulations
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Indium(II) Selenide
Indium Selenide (InSe):	100
Percentage:	100 wt%
	1312-42-1
CAS #: EC #:	N/A

	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.
	Remove breathing apparatus only after contaminated clothing has been completely removed.
Ingestion:	Do not induce vomiting. Seek immediate medical attention.
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
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water
	spray or alcohol resistant foam.
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.
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
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	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
Work/Uszienie Meintenenee	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.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	$0.1 \text{ mg/m}^3$ as In, long-term value
Threshold Limit Value:	0.1 mg/m <sup>3</sup> as In, 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.
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9. Physical and Chemical Characteristics		
Color	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	321°C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	193.78g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes irritation	
Skin:	Causes irritation	
Ingestion:	Toxic	
Inhalation:	Toxic	
Chronic:	Selenium may cause amyotropic lateral sclerosis, bronchial irritation,	
l	gastrointestinal distress, vasopharyngeal irritation, garlic odor on breatl	
	and sweat, metallic taste, pallor, irritability, excessive fatigue, loss of fingernails and hair, pulmonary edema, anemia and weight loss.	
	Exposure to indium compounds may cause pain in the joints and bones	
	tooth decay, nervous and gastrointestinal disorders, heart pain and	
	general debility. Experiments with animals also indicate that indium	
	may cause reduced food and water consumption with weight loss,	
	pulmonary edema, pneumonia, blood, liver and kidney damage, leg	
	paralysis and damage to the brain, heart, adrenals and spleen.	
Signs & Symptoms:	N/A N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	EPA-D: Not classifiable as to human carcinogenicity: inadequate	
	human and animal evidence of carcinogenicity or no data are available.	
	NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of	
	carcinogenicity from epidemiologic studies. IARC-3: Not classifiable as to carcinogenicity to humans.	
	12. Ecological Information	
	Low	
Aquatic Toxicity:		
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:		
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	No No	

	13. Disposal Considerations	
Dispose of in accordance with local, state, national, and international regulations.		
	14. Transportation Data	
Hazardous:	Hazardous as powder only	
	POISON 6	
Hazard Class:	6.1 Toxic substances	
Packing Group:	III	
UN Number:	UN3283	
Proper Shipping Name:	Selenium compound, solid, n.o.s. (Indium selenide)	
	15. Regulatory Information	
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	

In 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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