

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

1. Product and Company Identification		
Trade Name:	Lithium Selenide	
Chemical Formula:	Li <sub>2</sub> Se	
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 #:	845-587-2436 / 845-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada)	
	+1-703-527-3887 (International)	
	2. Hazards Identification	
Signal Word:	Danger	
	- Revich	
Hazard Statements:	H261 In contact with water releases flammable gases	
	H301 + H331 Toxic if swallowed or if inhaled	
	H373 May cause damage to organs through prolonged or repeated	
	exposure	
	H410 Very toxic to aquatic life with long lasting effects	
Precautionary Statements:	P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.	
	P231 + P232 Handle under inert gas. Protect from moisture	
	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.	
	P264 Wash 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.	
	P273 Avoid release to the environment	
	P280 Wear protective gloves/ protective clothing/ eye protection/ face	
	protection	
	P301 + P310 IF SWALLOWED: Immediately call a POISON	
	CENTER/doctor	
	P304 + P340 IF INHALED: Remove victim to fresh air and keep at res	
	in a position comfortable for breathing	
	P314 Get medical advice/ attention if you feel unwell	
INALS Health Dating of ().		
HMIS Health Ratings (0-4):	2	
Health:	2	
Flammability:	3	
Physical:	1	

IVIIS Health Ratings (0-4):	
Health:	
Flammability:	
Physical:	

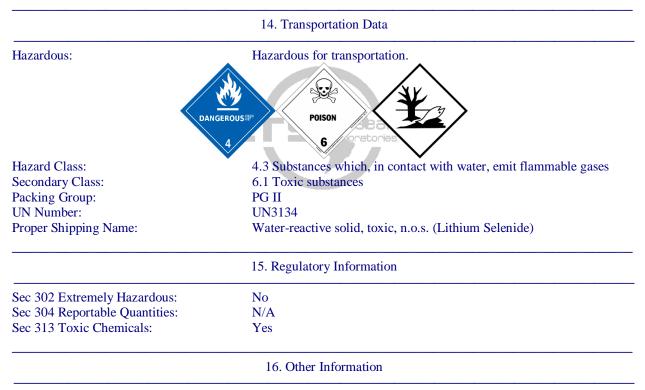
3. Composition		
Chemical Family:	Ceramic	
Additional Names:	Dilithium Selenide, Lithium selenidolithium	
Lithium Selenide (Li <sub>2</sub> Se):		
Percentage:	100 wt%	
CAS #:	12136-60-6	
EC #:	235-230-2	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	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. 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	
	5. Firefighting Measures	
Flammability:	Flammable in contact with water	
Extinguishing Media:	Do not use water $-$ use CO <sub>2</sub> , sand, extinguishing powder.	
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.	
-	Store in a cool dry place in a tightly sealed container. Store apart from	
Storage Conditions:		
Storage Conditions:	materials and conditions listed in section 10.	
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	
	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	
Storage Conditions:	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	

8. E	xposure Controls and Personal Protection
Permissible Exposure Limits:	0.2 mg/m <sup>3</sup> as Li <sub>2</sub> Se, long-term value
Threshold Limit Value:	$0.2 \text{ mg/m}^3$ as Li <sub>2</sub> Se, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
1 2	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:	Rubber gloves
Eye Protection:	Safety glasses or goggles, Full face protection
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9.	Physical and Chemical Characteristics
Color	Brown
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	92.842 g/mol
	10. Reactivity stories, Inc.
Stability:	Stable under recommended storage conditions
Reacts With:	Water, Oxidizing agents
Incompatible Conditions:	Moisture
Hazardous Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes irritation
Skin:	Causes irritation
Ingestion:	Toxic
Inhalation:	Toxic
Chronic:	May cause damage to organs through prolonged or repeated exposure
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

	12. Ecological Information
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic for aquatic organism.
	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without proper governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into the ground.
	Also poisonous for fish and plankton in water bodies.
	Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
	Avoid transfer into the environment.
	Toxic to aquatic life.

13. Disposal Considerations

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



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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06/07/2016