

LTS Research Laboratories, Inc. Safety Data Sheet Selenium

	1. Product and Con	mpany Identification	
Trade Name:	Selenium		
Chemical Formula:	Se		
Recommended Use:	Scientific res	search and development	
Manufacturer/Supplier:	LTS Researc	ch Laboratories, Inc.	
Street:	37 Ramland	Road	
City:	Orangeburg		
State:	New York		
Zip Code:	10962		
Country:	USA		
Tel #:		36 / 855-lts-chem	
24-Hour Emergency Contact:		00 (US & Canada)	
	+1-703-527-	3887 (International)	
	2. Hazards	Identification	
Signal Word:	Danger	•	
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		hinhonax ríes, inc.	
Hazard Statements:	H301+H331	: Toxic if swallowed or if inhaled	
	H373: May o	cause damage to organs through prolonged or repeated	
	exposure		
Precautionary Statements:	P260: Do no	t breathe dust/fume/gas/mist/vapours/spray	
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER		
	or doctor/phy	ysician	
		IF INHALED: Remove victim to fresh air and keep at rest	
		in a position comfortable for breathing	
	P405: Store locked up		
		se of contents/container in accordance with	
		al/national/international regulations	
HMIS Health Ratings (0-4):	Powder	Bulk	
Health:	2	1	
Flammability:	0	0	
Physical:	1	0	
	3. Con	nposition	
Chemical Family:	Semimetal		
Additional Names:	None		
Selenium (Se):	100		
	100 wt%		
Percentage:			
Percentage: CAS #: EC #:	7782-49-2 231-957-4		

	4. First Aid Procedures
General Treatment: Special Treatment:	Seek medical attention if symptoms persist. Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.
Important Symptoms:	None
Inhalation: Ingestion: Skin:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. 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: 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:	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: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. 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 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: Threshold Limit Value:	0.2 mg/m^3 as Se, long-term value 0.2 mg/m^3 as Se, long-term value
Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection: Body Protection:	None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. P	hysical and Chemical Characteristics
Color	Various colors
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	685 °C
Melting Point:	217 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.28 g/cc
Molecular weight:	78.96 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	None
Incompatible Conditions:	None
Hazardous Decomposition Products:	Selenium dioxide (SeO ₂)
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A honatorias log
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	6700 mg/kg for rat by mouth
Carcinogen:	IARC-3: Not classifiable as to carcinogenicity to humans.
	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available
	12. Ecological Information
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Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No Mar anna lana lastina harrafal affast an arratia lifa
Notes:	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without prope
	governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into
	the ground.
	Avoid transfer into the environment.
	13. Disposal Considerations

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

	14. Transportation Data
Hazardous:	Hazardous as powder only.
Hazard Class: Packing Group:	9 Miscellaneous dangerous substances and articles
UN Number:	UN3077
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (Selenium)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
	N/A
Sec 304 Reportable Quantities:	1 1/1 1

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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