

LTS Research Laboratories, Inc. Safety Data Sheet Selenium Chloride

1. Product and Company Identification

Trade Name: Selenium Chloride

Chemical Formula: SeCl₄

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy
City: Belmont

City: Belmont
State: North Carolina

Zip Code: 28012 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

H410: Very toxic to aquatic life with long lasting effects

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

P273: Avoid release to the environment

P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON

CENTER/ doctor. Rinse mouth

P304 + P340 + P311: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician

P314: Get medical advice/ attention if you feel unwell

P391: Collect spillage

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: 2

3. Composition	
Chemical Family: Additional Names:	Chloride None
Selenium Chloride (SeCl ₄)	
Percentage:	100 wt%
CAS #:	10026-03-6
EC #:	233-053-5
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	N/A
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek medica
	attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions—use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires
	use CO ₂ , 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.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
Work/Hygienic Maintenance:	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
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.2 mg/m³ as SeCl₄, long-term value Threshold Limit Value: 0.2 mg/m³ as SeCl₄, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Check gloves prior to each use

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 Yellow

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A Water Solubility: N/A **Boiling Point:** 288 °C Melting Point: 170-196 °C Flash Point: N/A Autoignition Temperature: N/A Density: 2.6 g/cm^3 Molecular weight: 220.77 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong oxidizing agents, Strong acids

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: Toxic if swallowed
Inhalation: Toxic if inhaled

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: LD50 Oral- 100 mg/kg for rat by mouth

Carcinogen: 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 for transportation



Hazard Class: 6.1
Packing Group: III
UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Selenium tetrachloride)

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.

Research

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