

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

## 1. Product and Company Identification

Trade Name: Tantalum Selenide

Chemical Formula: TaSe<sub>2</sub>

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

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

P301+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting. Immediately call a POISON CETER or

doctor/physician

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.

P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 0

### 3. Composition

Chemical Family: Inorganic compound Additional Names: Tantalum diselenide

Tantalum Selenide (TaSe<sub>2</sub>):

Percentage: 0-100 wt% CAS #: 12039-55-3 EC #: 234-898-2

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. Seek immediate medical attention.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
Skin:	person. Seek immediate medical attention.  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:	Non-flammable, except as powder
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon
Spec. Fire Fighting Procedure:	dioxide 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.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid formation of fust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under nitrogen. 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:	N/A N/A
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.

9. Physical and Chemical Characteristics	
Color	N/A
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:	338.87 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents
Incompatible Conditions:	N/A
Hazardous Decomposition Products:	Tantalum Oxides, Selenium/Selenium Oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Toxic if swallowed
Inhalation:	Toxic if inhaled
Chronic:	May cause damage to organs through prolonged or repeated exposure
	T. Pesearch
Signs & Symptoms:	N/A boratories, inc.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Very toxic to aquatic life with long lasting effects
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

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

## 14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 6.1
Packing Group: III
UN Number: UN3283

Proper Shipping Name: Selenium compound, solid, n.o.s (Tantalum selenide)

# 15. Regulatory Information

Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: N/A

#### 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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