

LTS Research Laboratories, Inc. Safety Data Sheet Niobium(V) oxalate hydrate

1. Product and Company Identification

Trade Name: Niobium(V) oxalate hydrate

Chemical Formula: $C_{10}H_5NbO_{20} \cdot xH_2O$

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: Warning



Hazard Statements: H302+H312: Harmful if swallowed or in contact with skin

Precautionary Statements: P264: Wash face, hands and any exposed skin thoroughly after

handling

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell. Rinse mouth

P302+P352+P312: IF ON SKIN: Wash with soap and water. Call a

POISON CENTER or doctor/physician if you feel unwell

P363: Wash contaminated clothing before reuse

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Organometallic Material

Additional Names: None

Niobium(V) oxalate hydrate ($C_{10}H_5NbO_{20}\cdot xH_2O$):

Percentage: 100 wt% CAS #: 1660137-09-6 EC #: 244-341-5 4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Skin:

Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion:

Give one to two glasses of water. Never induce vomiting or give

anything by mouth to an unconscious person. Get medical attention.

Wash affected area with mild soap and water. Remove any

contaminated clothing. Get medical attention.

Flush eyes with water, blinking often for several minutes. Remove Eyes:

contact lenses if present and easy to do. Continue rinsing.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: Use carbon dioxide, powder, or water spray.

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.

Isolate runoff to prevent environmental pollution. **Environmental Precautions:**

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

materials and conditions listed in section 10.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance:

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Provide sufficient ventilation to maintain concentration at or below Ventilation:

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. P	Physical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
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:	538.04 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Harmful if in contact with skin
Ingestion:	Harmful if swallowed
Inhalation:	May cause irritation
Chronic:	N/A
	Research
Signs & Symptoms:	N/A toratories, inc.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	May cause long lasting harmful effects to aquatic life. Do not empty into drains.
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Hazard Class: Packing Group:	N/A N/A

	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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