

## LTS Research Laboratories, Inc. Safety Data Sheet Molybdenum Niobium

## 1. Product and Company Identification Trade Name: Molybdenum Niobium Chemical Formula: MoNb Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 2001 Oaks Pkwy City: Belmont State: North Carolina 28012 Zip Code: 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: H228: Flammable solid H360: May damage fertility or the unborn child H371: May cause damage to organs Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking P240: Ground/bond container and receiving equipment P241: Use explosion-proof electrical/ventilating/light/equipment 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 P281: Use personal protective equipment as required P308+P313: IF exposed or concerned: Get medical advice/attention P370+P378: In case of fire: Use CO2, powder, or water spray for extinction P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/ national/international regulations HMIS Health Ratings (0-4): Powder Bulk, Pieces&larger Health: 1 0 Flammability: 3 0 Physical: 1 0

3. Composition	
Chemical Family:	Alloy
Additional Names:	None
Molybdenum (Mo):	
Percentage:	0-100 wt%
CAS #:	7439-98-7
EC #:	231-107-2
Niobium (Nb):	
Percentage:	0-100 wt%
CAS #:	7440-03-1
EC #:	231-113-5
	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
<b>G1</b> :	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 Research
	Contractories. Inc.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
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 <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.
Environmental Dressetier	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
	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. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	3 mg/m <sup>3</sup> as Mo, long-term value
Threshold Limit Value:	3 mg/m <sup>3</sup> as Mo, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	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	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	NA Research
Water Solubility:	N/A http://www.actories.log
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Oxidizing agents, Strong oxidizing agents, Bromine trifluoride
	Chlorine trifluoride, Fluorine, lead oxide
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume
	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
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: Notes:	N/A N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only
	FLAMMABLE SOLID
Hazard Class:	4.1 Flammable solid, self-reactive substances and solid desensitized explosives.
Packing Group:	I
UN Number:	0113087
Proper Shipping Name:	Metal powder, flammable, n.o.s. (Molybdenum Niobium)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A

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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