

LTS Research Laboratories, Inc. Safety Data Sheet Molybdenum Ruthenium Alloy

1. Product and Company Identification	
Trade Name:	Molybdenum ruthenium alloy
Chemical Formula:	Mo/Ru
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 #:	845-587-2436 / 845-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	None
Hazard Statements:	N/A
Precautionary Statements:	N/A
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HMIS Health Ratings (0-4):	
Health:	0 Besparch
Flammability:	
Physical:	
	3. Composition
Chemical Family: Additional Names:	Alloy
Additional Names:	None
Molybdenum (Mo):	
Percentage:	0-100 wt%
CAS #:	7439-98-7
EC #:	231-107-2
Ruthenium (Ru):	
Percentage:	0-100 wt%
CAS #:	7440-18-8
EC #:	231-127-1
	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.
Ingestion:	Seek medical attention.
Skin:	generally does not irritate skin.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures
Non-flammable 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
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.
7. Handling and Storage
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.
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.
Provide sufficient ventilation to maintain concentration at or below threshold limit.
xposure Controls and Personal Protection
5 mg/m ³ as Mo, soluble compounds, long-term value 15 mg/m ³ as Mo, insoluble compounds, total dust, long-term value
10 mg/m ³ as Mo, inhalable fraction, long-term value 3 mg/m^3 as Mo, respirable fraction, long-term value
None
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Nitrile rubber, NBR 0.11mm thick. 480 minutes
480 minutes Safety glasses or goggles

Color Form: Odor: Water Solubility:	Grey Sputtering target Odorless Insoluble
Odor:	Odorless
Water Solubility	Insoluble
water Solubility.	
Boiling Point:	N/A
Melting Point:	1955 - 2623 °C
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, Mineral acids, Oxidizing agents
Incompatible Conditions:	None
Hazardous Decomposition Products:	Molybdenum oxides, 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
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Signs & Symptoms:	N/A bonatorias los
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
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

14. Transportation Data
Not hazardous for transportation.
N/A
N/A
N/A
N/A

15. Regulatory Information
No
N/A
No

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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