

LTS Research Laboratories, Inc. Safety Data Sheet Potassium molybdate

1. Product and Company Identification Trade Name: Potassium molybdate Chemical Formula: K₂MoO₄ Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg New York State: 10962 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: Warning ies, inc Hazard Statements: H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation **Precautionary Statements:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations HMIS Health Ratings (0-4): Health: 1 Flammability: 0 Physical: 1

3. Composition		
Chemical Family: Additional Names:	Ceramic Dipotassium molybdate, Dipotassium tetraoxomolybdate, Potassium Molybdenum Oxide	
Potassium molybdate (K ₂ MoO ₄):		
Percentage:	100 wt%	
CAS #:	13446-49-6	
EC #:	236-599-2	
	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. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately 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. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
	Non-flammable 85.88 rCh	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
	surrounding material and type of fire.	
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. Keep unprotected persons away. 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:	Handle under dry protective gas. Avoid contact with skin and eyes.	
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store away from water/moisture, air, oxidizing agents. This product is hygroscopic.	
	Store under inert gas. This product is air sensitive. 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	xposure Controls and Personal Protection
Permissible Exposure Limits:	0.5 mg/m ³ as Mo, long-term value
Threshold Limit Value:	0.5 mg/m^3 as Mo, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous
	chemicals and having an average face velocity of at least 100 feet per
	minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm
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	Colorless
Form:	Powder
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	N/A
Melting Point:	919°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.3 g/cc
Molecular weight:	238.13 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, water/moisture
Incompatible Conditions:	Air, water/moisture
Hazardous Decomposition Products:	Metal oxide fume, potassium oxides, molybdenum oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	Causes skin irritation
Ingestion:	May cause irritation
Inhalation: Chronic:	May cause respiratory irritation N/A
Signs & Symptoms: Aggravated Medical Conditions:	N/A N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than of equal to 0.1% is identified as a carcinogen or potential carcinogen by

	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Do not allow product to reach ground water, water course or sewage system. Avoid transfer into the environment.
	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	
Proper Shipping Name:	N/A	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	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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