

## LTS Research Laboratories, Inc. Safety Data Sheet Molybdenum-doped Indium Oxide

## 1. Product and Company Identification

Trade Name:	Molybdenum-doped Indium Oxide
Chemical Formula:	$In_2O_3-Mo$
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: Toxic if swallowed.
	H319: Causes serious eye irritation
	H351 Suspected of causing cancer
Precautionary Statements:	<ul><li>H351 Suspected of causing cancer</li><li>H335: May cause respiratory irritation</li><li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li></ul>
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	3. Composition
Chemical Family:	Ceramic
Additional Names:	N/A
Molybdenum-doped Indium Oxide (In <sub>2</sub> 0	O <sub>3</sub> -Mo):
Percentage:	100 wt%
CAS #:	N/A
EC #:	N/A
	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:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
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
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. 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.
En incomental Decentioner	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
<b>XX7 1 /XX • • • • • •</b>	materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
work/rrygienic Wantenance.	acting and smalling. Do not blow dust off alathing on align with
work/rrygienie Maintenance.	eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	0.1 mg/m <sup>3</sup> as In, long-term value	
Threshold Limit Value:	0.1 mg/m <sup>3</sup> as In, long-term value	
	$10 \text{ mg/m}^3$ as Mo inhalable, long-term value	
	3 mg/m <sup>3</sup> as Mo respirable, long-term value	
Special Equipment:	None	
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a	
	backup to engineering controls. Risk assessment should be performed	
	to determine if air-purifying respirators are appropriate. Only use	
	equipment tested and approved under appropriate government standards.	
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.	
Penetration time of glove material:	480 minutes	
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:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A N/A	
Autoignition Temperature: Density:	N/A Research	
Molecular weight:	N/A the benatories, inc.	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	N/A	
Incompatible Conditions:	Acids, oxidizing agents	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects: Eyes:	Causes serious eye 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:	188 mg/kg for rat by mouth	
Carcinogen:	Carcinogenicity - Rat - Inhalation Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lung	
	Thorax, or Respiration: Tumors.	

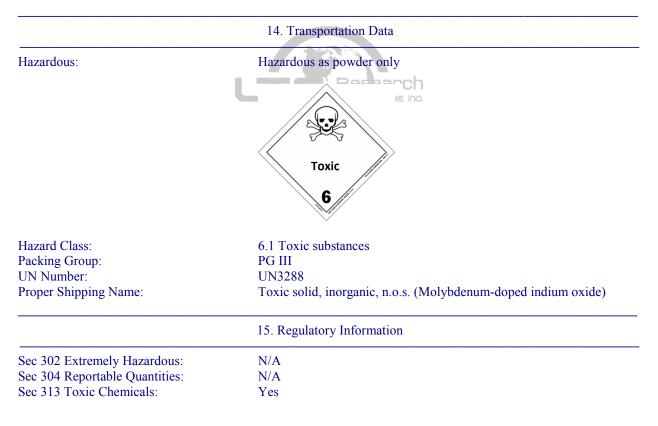
Limited evidence of a carcinogenic effect.

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 or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. 12. Ecological Information Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A Notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system.

Avoid Transfer to the environment.

13. Disposal Considerations

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



## 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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01/09/2018

