

LTS Research Laboratories, Inc. Safety Data Sheet Indium (III) iodide

1. Product and Company Identification	
Trade Name:	Indium (III) iodide
Chemical Formula:	InI_3
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
-	USA
Country: 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:	H314: Causes severe skin burns and eye damage H317: May cause an allergic skin reaction H334: May cause allergy or asthma symptoms or breathing difficultie if inhaled H361: Suspected of damaging fertility or the unborn child
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
recautionary Statements.	P272: Contaminated work clothing should not be allowed out of the
	workplace.
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection
	P284: Wear respiratory protection
	P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
	P308+P313: IF exposed or concerned: Get medical advice/ attention. P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.
	P363: Wash contaminated clothing before reuse.
	P363: Wash contaminated clothing before reuse. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal
HMIS Health Ratings (0-4):	P363: Wash contaminated clothing before reuse. P405: Store locked up.
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Health:	P363: Wash contaminated clothing before reuse.P405: Store locked up.P501: Dispose of contents/ container to an approved waste disposal plant.3
HMIS Health Ratings (0-4): Health: Flammability: Physical:	P363: Wash contaminated clothing before reuse.P405: Store locked up.P501: Dispose of contents/ container to an approved waste disposal plant.

3. Composition	
Chemical Family:	Ceramic
Additional Names:	Indium triiodide
Indium (III) iodide (InI ₃):	
Percentage:	100 wt%
CAS #:	13510-35-5
EC #:	236-839-6
	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
Flammability:	Non-flammable
Extinguishing Madia	No special restrictions use suitable extinguishing agent for
Extinguishing Media:	
Space Fire Fighting Dragodyna	surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective
Spec. Fire Fighting Procedure:	
	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. Use neutralizing agent. 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:	Avoid contact with the eyes and skin. Handle under dry protective gas.
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry
	inert gas. Store away from oxidizing agents, water/moisture, and strong bases. This product is hygroscopic. Protect from humidity and water.
	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
X 7	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet pe minute.	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
body Protection.	sleeves/pants.	
9	. Physical and Chemical Characteristics	
Color	Red to light yellow	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Soluble	
Boiling Point:	N/A	
Melting Point:	210 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	4.69 g/cc	
Molecular weight:	495.53 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, bases	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, hydrogen iodide, indium oxide	

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns, may cause an allergic skin reaction
Ingestion:	Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Inhalation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Chronic:	Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.
Signs & Symptoms:	Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting
Aggravated Medical Conditions:	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 or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A 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 into the environment.
	13. Disposal Considerations

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

	14. Transportation Data		
Hazardous:	Hazardous as powder only.		
	CORROSIVE 8		
Hazard Class:	8 Corrosive Substances		
Packing Group:	III		
UN Number:	UN3260		
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (Indium (III) iodide)		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
	N/A		
Sec 304 Reportable Quantities:			

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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