

INDIUM

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Indium		Date of Last Revision 1/18/96	
Formula In	Chemical Family Metal	Chemical Abstract No. 7440-74-6	
TSCA Listed in TSCA inventory		Calc. Molecular Wt.	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Indium Metal	7440-74-6	100	.1mg/m ³	.1mg/m ³

Section III Physical Data

Boiling Point (0°C): 2000°C	Density (gmcc): 7.31
Vapor Pressure: 1mm @1249	% Volatile by Volume: NA
Reaction with Water: None	Evaporation Rate (H ₂ O -1): NA
Solubility in Water: Insoluble	Melting Point (°C): 156.61
Appearance and Odor: Silvery metallic pieces or powder, no odor	Other Comments:

Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp. NA	Flammability slight as powder	LEI NA	UEI NA
Extinguishing Media: Agents for metal fires (graphite, MET-L-X, TEC)				
Special Fire Fighting Procedures: Do not use water on metal fires. Wear full protective gear.				
Unusual Fire and Explosion Hazards: None				

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Sweep or scoop up pieces: vacuum up powder using cleaner equipped with HEPA filter.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): Indium is not listed as hazardous by the EPA. EPA recommends disposal of waste in an approved hazardous waste facility.

Section VI Health Hazard Data

Toxicity Data scu-mouse LD ₅₀ : 10 mg/kg		HMIS Hazard Rating Health: 2 Flammability: 0 Reactivity: 0 Personal Protection: E	
Route(s) of Entry	Inhalation: X	Skin	Ingestion X
Effects of Overexposure (acute and chronic) Inhalation: No data available on effect of inhalation. May cause mucous membrane and respiratory tract irritation. Dermal/Eye Contact: An irritant to the skin and eyes. Other (specify): No human toxicity data available. Animal studies show indium to be moderate to highly toxic via ingestion with heart, liver and kidney damage.			
Medical Conditions Generally Aggravated by Exposure: ND			
Carcinogenicity: None NTP: IARC Monographs OSHA Regulations			
Emergency and First Aid Procedures Ingestion: Give victim fluids then induce vomiting. Get immediate medical help. Inhalation: Remove to fresh air. Treat symptomatically. Skin Contact: Brush off material. Wash affected area with soap and water. Eye Contact: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical assistance.			

Section VII Reactivity Data

Stable: X Unstable:	Conditions Contributing to Instability: None
Incompatibility (materials to avoid): ND	
Hazardous Decomposition Products - Thermal and Other (list): In fume	
Hazardous Polymerization May Occur: Will Not Occur: X	Conditions to Avoid: ignition sources (for dusty conditions)

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip. Any respirator approved for dusts, mists and fumes.	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: To maintain exposure below TLV Mechanical (general): Not recommended Special: Other:	
Protective Gloves: Recommended	Eye Protection: Safety glasses as minimum
Other Protective Equipment/Work Practices: Prevent contamination of skin and	

clothing.

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: Wash thoroughly after handling. Store in tightly closed container.

Transportation Requirements

DOT Class: Not classified

UN Number: Not classified

IMCO Class: Not classified

Other:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE