

## Kurt J. Lesker Company

Indium metal, pieces

Manufacturer MSDS Number: In



### SECTION 1 : Chemical Product and Company Identification

**MSDS Name:** Indium metal, pieces

**Manufacturer Name:** Kurt J. Lesker Company

**Address:**

1925 Worthington Ave  
Clairton, PA 15205

For emergencies in the US, call CHEMTREC: 800-424-9300

**Other Phone:** US National Poison Hotline: (800)222-1222

**Manufacturer MSDS Creation Date:**

06/26/2006

**Manufacturer MSDS Revision Date:**

06/26/2006

**Synonyms:**

Indium metal

**Chemical Family:** Metal

**Chemical Formula:** In

**Molecular Weight:** 114.82

**DOT HAZARD LABEL**

No data.

**Product Codes:**

In



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### SECTION 2 : Hazardous Ingredients/Identity Information

Chemical Name	CAS#	% Weight	
Indium metal	7440-74-6	0.0 -100.0 %	



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### SECTION 3 : Physical And Chemical Characteristics

**Physical State/Appearance:**

Silver-white, soft, metal pieces, no odor.

**Physical State:**

Gas ,  Liquid ,  Solid

**pH:**

No data.

**Vapor Pressure:**

No data. (VS. AIR OR MM HG)

**Vapor Density:**

No data. (VS. AIR = 1)

**Boiling Point:**

2075.00 deg C (3767.0 deg F) to 2080.00

**Melting Point:**

156.60 deg C (313.9 deg F)

**Solubility:**

OTHER SOLUBILITY NOTES: soluble in most acids

**Solubility In Water:**

insoluble

**Specific Gravity:**

7.31 at 20.0 C (68.0 F) (WATER = 1)

**Density:**

No data.

**Evaporation Point:**

No data. (VS BUTYL ACETATE=1)

**Percent Volatile:**

N.A.

**FlashPoint:**

N.A.

**Upper Flammable Explosive Limit:**

NA

**Lower Flammable Explosive Limit:**

NA



**SECTION 4 : Fire And Explosion Hazards**

**Flash Point:**

N.A.

**Flash Point Method:**

No data.

**Upper Flammable or Explosive Limit: NA**

**Lower Flammable or Explosive Limit: NA**

**Extinguishing Media:**

Not applicable. Use suitable extinguishing agent for surrounding material and type of fire.

**Fire Fighting Instructions:**

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

**Unusual Fire Hazards:**

Indium metal has a violent reaction with mercury (II) bromide at 350C. May have an explosive reaction with dinitrogen tetraoxide + acetonitrile. May react with halogens, sulfur, selenium, tellurium, arsenic, phosphorus on heating. May slowly oxidize in moist air. May dissolve in mercury.

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## SECTION 5 : Health Hazards

### Indium metal:

#### Route of Exposure:

Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: N

#### Potential Health Effects:

##### Eye Contact:

Severe irritant.

##### Skin Contact:

Highly toxic when administered subcutaneously. Severe irritant.

##### Inhalation:

Toxic by inhalation. May cause damage to the respiratory system.

##### Ingestion:

May cause irritation to the gastrointestinal tract.

#### Chronic Eye Contact:

May cause irritation.

#### Chronic Skin Contact:

Severe irritant.

#### Chronic Inhalation:

May cause pneumonitis.

#### Chronic Ingestion:

No chronic health effects recorded.

#### Carcinogenicity:

NTP? No , IARC Monographs? No , OSHA Regulated? No

#### Target Organs:

May affect the liver, heart, kidneys and blood.

#### Signs/Symptoms:

INHALATION: May cause a red, dry throat, burning sensation, wheezing, laryngitis, coughing, sneezing and shortness of breath. INGESTION: May cause nausea, vomiting and stomach discomfort. SKIN: May cause redness, itching, inflammation and burning. EYE: May cause redness, itching, inflammation, burning and watering.

#### Other Potential Health Effects:

CARCINOGENICITY/OTHER INFORMATION: No data available.

#### Aggravation of Pre-Existing Conditions:

Pre-existing lung, skin and gastrointestinal disorders.

See "Section II" LD 50/LC 50: scu-mus LDLO: 10 mg/kg

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## SECTION 6 : Emergency And First Aid Procedures

### Eye Contact:

Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention.

**Skin Contact:**

Remove contaminated clothing; brush material off skin; wash affected area with mild soap and water; seek medical attention immediately.

**Inhalation:**

Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention immediately.

**Ingestion:**

Give 1-2 glasses of milk or water and induce vomiting; seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

**Note to Physicians:**

No data available.



## SECTION 7 : Reactivity Data

**Chemical Stability:**

Unstable [ ] Stable [ X ]

**Conditions to Avoid:**

CONDITIONS TO AVOID - INSTABILITY: None; CONDITIONS TO AVOID - HAZARDOUS POLYMERIZATION: None

**Incompatibilities with Other Materials:**

Strong oxidizing agents, Mercury (II) bromide, dinitrogen tetraoxide, acetonitrile, halogens, sulfur, selenium, tellurium, arsenic, mercury and phosphorus.

**Hazardous Polymerization:**

Will occur [ ] Will not occur [ X ]

**Hazardous Decomposition Products:**

Indium oxide



## SECTION 8 : Precautions For Safe Handling

**Spill Cleanup Measures:**

Wear appropriate respiratory and protective equipment specified in section VIII-control measures. 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 proper disposal. Take care not to raise dust.

**Other Precautions:**

None.

**HAZARD LABEL INFORMATION:**

Store in cool, dry area Store in tightly sealed container Wash thoroughly after handling

**Handling:**

Indium metal may be moisture sensitive. Store in a cool, dry area.

**Storage:**

Indium metal may be moisture sensitive. Store in a cool, dry area.

**Hygiene Practices:**

WORK/HYGIENIC/MAINTENANCE PRACTICES: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. 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.

#### Waste Disposal:

Dispose of in accordance with local, state and federal regulations.



### SECTION 9 : Control Measures

#### Ventilation System:

Local Exhaust: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Special: None Mechanical (Gen): Good general ventilation is recommended. Other: None

#### Hand Protection Description:

Rubber gloves

#### Eye/Face Protection:

Safety glasses

#### Protective Clothing/Body Protection:

Protective gear suitable to prevent contamination

#### Respiratory Protection:

NIOSH approved respirator

NIOSH approved respirator Impervious gloves Safety glasses Clothes to prevent skin contact

#### Ingredient Guidelines

**Ingredient:** Indium metal

**Guideline Information:**

ACGIH TLV: .1 mg/m<sup>3</sup>; OSHA PEL: 0.1 mg/m<sup>3</sup>; OTHER LIMITS: NE



### SECTION 10 : Other Information

#### Indium metal:

##### Section 302:

No

##### Section 304:

No

##### Section 313 Toxic Release Form:

No

#### Disclaimer:

Kurt J. Lesker Company ("KJLC") believes the information contained in this Material Safety Data Sheet is accurate as of the "Date of Last Revision" specified. The information relates only to typical properties of the product. Do not use the information for product performance or specification purposes. The information is for use by technically skilled persons at their own risk. KJLC MAKES NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE

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**Abbreviations used**

NA=Not Applicable NE: Not Established

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