

## LTS Research Laboratories, Inc. Safety Data Sheet Indium Phosphide

### 1. Product and Company Identification

Trade Name: Indium Phosphide

Chemical Formula: InP

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: H350: May cause cancer

H361: Suspected of damaging fertility or the unborn child H372: Causes damage to organs through prolonged or repeated

exposure

Precautionary Statements: P202: Do not handle until all safety precautions have been read and

understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product P281: Use personal protective equipment as required

P308+P313: IF exposed or concerned: Get medical advice/attention

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 N/A
Indium Phosphide (InP):	
Percentage:	100 wt%
CAS #: EC #:	22398-80-7 244-959-5
	211,737,3
	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. Seek medical attention immediately.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
Skin:	person. Rinse mouth with water. Seek medical attention immediately. Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek medical attention immediately.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Seek medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions—use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. 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. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Avoid contact with skin and eyes. Avoid of dust and aerosols. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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. 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

Special Equipment: None

Respiratory Protection: **Dust Respirator Protective Gloves:** Rubber gloves

Eve Protection: Safety glasses or goggles

**Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

#### 9. Physical and Chemical Characteristics

Color Dark gray

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** 1070 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.79 g/cc 145.79 g/mol Molecular weight:

### 10. Reactivity

Stable under recommended storage conditions Stability:

Oxidizing agents, Acids Reacts With: None

**Incompatible Conditions:** 

Metal oxide fume, Phosphorus oxides. Indium oxides **Hazardous Decomposition Products:** 

# 11. Toxicological Information

Potential Health Effects:

Cause irritation Eyes: Skin: Cause irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: The Registry of Toxic Effects of Chemical Substances (RTECS) has

information on effects observed in laboratory animals.

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: Possible human carcinogen

IARC: 2A - Group 2A: Probably carcinogenic to humans (Indium

phosphide).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

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.

N/A	
N/A	
N/A	
N/A	
13. Disposal Considerations	
, national, and international regulations.	
14. Transportation Data	
Not hazardous for transportation	
N/A	
N/A	
N/A	
N/A	
15. Regulatory Information	
No	
N/A	
	N/A N/A  13. Disposal Considerations  , national, and international regulations.  14. Transportation Data  Not hazardous for transportation N/A N/A N/A N/A N/A 15. Regulatory 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.

Document Last Revised: 03/19/2018