

VI HALBLEITERMATERIAL GmbH Material Safety Data Sheet Indium Phosphide

1. Product and Company Identification

Trade Name: Indium Phosphide

Chemical Formula: InP

Manufacturer/Supplier: VI HALBLEITERMATERIAL GmbH Bergener

Street: Straße 14., Hannover City: State: Niedersachsen 30625

Zip Code: Country: Germany

0049 1626484175 Tel #:

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

P202: Do not handle until all safety precautions have been read and **Precautionary Statements:** 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 #:	22398-80-7
EC #:	244-959-5
	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 person. Rinse mouth with water. Seek medical attention immediately.
Skin:	Wash affected area with mild soap and water. Remove any
Ever	contaminated clothing. Seek medical attention immediately. Flush eyes with water, blinking often for several minutes. Remove
Eyes:	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
Storage Conditions:	thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from
Storage Conditions.	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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as In, long-term value Threshold Limit Value: 0.1 mg/m³ as In, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

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 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

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, Acids

Incompatible Conditions: None

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

11. Toxicological Information

Potential Health Effects:

Eyes: Cause irritation
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

ACGIH.

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:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	N/A
	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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