SAFETY DATA SHEET

Indium

Version 2 · issued 19 October 2026

1. IDENTIFICATION

Product Identifiers

Product Name	Indium Wire
Other Names	In
Product Number(s)	VIN05, VIN07, VIN10, VIN15, VIN20
CAS Number	7440-74-6

Recommended use of the chemical and restriction on use

Laboratory use. Used for cryogenic, v.h. vacuum seals and evaporated coatings.

Company Details

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not classified.

Label Elements

Signal Words	None
Hazard Statement(s)	Flammable in the form of dust when exposed to heat or flame. Indium has a violent reaction with mercury bromide at 350°C. May have an explosive reaction with dinitrogen tetraoxide ± acetonitrile. May react with halogens, sulphur, selenium, tellurium, arsenic, phosphorus, on heating. May slowly oxidise in moist air. May dissolve in mercury.
Precautionary Statement(s)	Not available.

Primary route(s) of entry

Not available.

Human Health

Inhalation	May be harmful if inhaled. May cause upper respiratory tract & mucous membrane irritation.
Ingestion	May be harmful if swallowed.
Eyes	May cause skin and eye irritation.
Skin	May cause skin and eye irritation.

Environment

No further relevant information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Indium	7440-74-6	>95%	

4. FIRST AID MEASURES

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.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminatedclothes and shoes. Get medical attention.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Getmedical attention.
Other Information	Notes to Physician: Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment

Fire	Carbon dioxide, foam or dry chemical. Do not use water.
Large Fire	Carbon dioxide, foam or dry chemical. Do not use water.
HAZCHEM	Not available.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Not available.
Environmental precautions	Not available.
Methods and materials for containment and clean up	Wear appropriate respiratory and protective equipment specified in section VIII. For powder spills, isolate spill area and provide ventilation. Scoop or 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.

7. HANDLING AND STORAGE

Precautions for safe handling	Indium in solid form can be handled without any special precautions. Be sure solid material is dry before adding to molten material. Avoid making dust.
Conditions for safe storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. IncompatibleMaterials. Strong oxidizing agents. Strong acids. Halogens. Reducing Agent.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Engineering controls	Keep away from foodstuffs, beverages and feed.

Personal protective equipment

Eye and face protection	Not required when working with solid form (wire).
Skin protection	Gloves are recomended.
Body protection	Exposure to indium compounds may cause pain in the joints and bones, tooth decay, nervous and gastrointestinal disorders, heart pain and general debility.
Respiratory protection	None require when working with solid form.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance	Soft silvery white metal, gray, solid wire.
Odour	Odourless.
pH	Not available.
Vapour Pressure	Not available.
Density	Not available.
Boiling Point	2000 °C / 3632 °F
Melting Point	156 °C / 312.8 °F
Solubility	Insoluble in cold water, hot water

Specific Gravity of Density	7.31 g/cc at 20°C
Flash Point	Not available.
Flammable (Explosive) Limits	Flammable as a powder
Ignition Temperature	Not available.
Formula	In

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No further relevant information available.
Conditions to avoid	None known
Incompatible materials	Strong oxidising agents, mercury bromide, dinitrogen tetraoxide, acetonitrile, halogens, sulphur, selenium, tellurium, arsenic, mercury, phosphorus.Hazardous Decomposition Products: Metal oxide fume.

11. TOXICOLOGICAL INFORMATION

Acute effects	No further relevant information available.
Eye contact	Severe irritant.
Skin contact	Highly toxic when administered subcutaneously. Severe irritant.
Ingestion	May cause irritation to the gastrointestinal tract.
Inhalation	Not applicable, Solid
Chronic effects	Inhalation: May cause pneumonitis. Ingestion: No chronic health effects recorded. Skin: Severe irritant. Eye: May cause irritation
Toxicity and irritation	Hazardous. Substance is toxic to blood, kidneys, the reproductive system, liver, heart, upper respiratory tract, skin and eyes. Repeated or prolonged exposure to particles can produce target organs damage. Exposure to indium compounds may cause pain in the joints and bones, tooth decay, nervous and gastrointestinal disorders, heart pain and general debility.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Do not empty into drains.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

General information

Chemical waste generators must determine whether a discarded chemical is classifiedasahazardous waste. Chemical waste generators must also consult local, regional, andnational hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

ADG label required

HAZCHEM	Not available.
UN Number	None.
Proper shipping name	Not regulated.
Transport hazard class	0
Packing group	None.
Environmental hazard	No information available.
Special precautions for users	Not regulated.
Additional information	Not regulated.

15. REGULATORY INFORMATION

Poisons Schedule Number	No information available.
Other Information	No further information available.

16. OTHER INFORMATION

SDS preparation date	19 October 2026
Comments	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
References	ThermoFisher Scientific SDS: "Indium wire" 22/12/2025 https://www.fishersci.com/store/msds?countryCode=US&language=en&partNumber=AA46661&productDescription=keyword&vendorId=VN00024248

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

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