

Product name: Solid Indium (In) in various manufactured forms
Document Nr.: SDS00170IN5708

Date: April 23rd 2018
Version: 1.0

Section 1: Identification of the substance or mixture and the company

1.1. Product Identifier

Name: Solid Indium (In) in various manufactured forms EC #: 231-180-0 CAS #: 7440-74-6

1.2 Relevant applications of the material and uses advised against

Target material for vacuum deposition (sputtering or thermal evaporation).
Seal material for high vacuum connections. Bonding material between other materials.

1.3. Company details

Vof Micro to Nano
Wateringweg 79
2031EK Haarlem
Netherlands
Tel: +31(0)85-2013155
E: info@microtonano.com

1.4 Emergency telephone number

+31(0)85-2013155 (office hours), Vof Micro to Nano, Netherlands

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical:	0
Health:	0
Environment:	None
Other hazards:	None

Classification according to Regulation EC Nr. 1272/2008

The substance is not classified as hazardous to health or to the environment according to CLP regulation.



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Safety Data Sheet

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Classification according to 67/548/EEC of 1999/45/EC

Not applicable

2.2 Labeling elements

Not applicable

2.3 Other hazards

Not applicable

Section 3: Composition / information on components

3.1. Substances

Solid Indium (In) in various manufactured forms EC #: 231-180-0 CAS #: 7440-74-6

3.2 Mixtures

Not applicable

Section 4: First aid measures

4.1. Description of first aid measures

Contact with eyes:	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
Contact with skin:	Wash with water and soap. Seek medical attention if irritation persists.
Inhalation:	Fresh air, keep warm and at rest. Seek medical attention if ill effects occur
Ingestion:	If swallowed, do not induce vomiting Seek immediate medical advice

4.2. Important symptoms and effects, either immediate or delayed

Inhalation:	Excessive inhalation of vapours may give rise to nausea, headache
Ingestion:	May cause gastrointestinal disturbances Symptoms: abdominal pain, vomiting



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Skin contact: Generally, not a skin irritant
Eye contact: Generally, not irritating to eyes

4.3. Indication of any immediate medical attention and special treatment

General advice: If you feel unwell, seek medical advice; show product label if possible
If symptoms persist, always call a doctor

Section 5: Firefighting Measures

5.1. Extinguishing media

Dry agent

5.2 Special hazards arising from the substance or mixture

Metal oxide fumes

5.3 Advice to firefighters

Keep container(s) exposed to fire cool by spraying with water
In case of fire; do not breathe fumes, wear self-contained respirator. Wear fully protective impervious suit.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Keep unprotected persons away. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow to enter public sewers and waterways

6.3 Methods and material for containment and clean up

Molten material should be allowed to cool and harden before cleanup. Pick up mechanically.



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6.4 Reference to other sections

For further information see section 8

Section 7: Handling and storage

7.1. Precautions for safe handling

Handle in a well-ventilated area. Avoid creating dust. Avoid breathing dust or fumes.
Avoid exposure to high temperatures. Wash thoroughly before eating or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, well ventilated place

7.3 Specific end uses(s)

Not required

Section 8: Exposure control and personal protection

8.1. Control parameters

Exposure limits

Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Peak	Notes
Indium	Indium (In)	EU	0.1mg/m ³	0.1mg/m ³	Not available	Not available

8.2 Exposure controls

Control procedures: No special measures required.
Maintain appropriate working environment.
Keep away from food, beverages and feed.
Wash hands before break and at the end of the day.

Personal protection: Protective work clothing



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Inhalation:	Use suitable respirator when high concentrations are present
Hands and skin:	Not required
Eyes:	Wear safety goggles or full-face protection

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	Solid in various forms
Colour:	Silvery metallic
Odour:	None
pH	Not applicable
Melting point/range:	156.6°C
Boiling point/range:	2080°C
Flash point:	Not determined
Evaporation rate:	Not available
Explosion limits: upper limit:	Not determined
lower limit:	Not determined
Vapour pressure:	Not applicable
Relative density:	7.31 g/cm ³ @ 20°C
Solubility in water:	Not soluble in water
Auto-ignition:	Not determined
Viscosity:	Not applicable

9.2 Other information

None

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purposes

10.2 Chemical stability

Stable under recommend storage conditions



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10.3 Possibility of hazardous reactions

Ignites and incandescens on heating with sulfur. Reacts vigorously with mercury bromide at 350°C,
Reacts with acids.

10.4 Conditions to avoid

Avoid creating or accumulating fines or dusts. Avoid high temperatures.

10.5 Incompatible materials

Acids, strong oxidising agents, halogens, sulfur, mercury bromide, selenium, tellurium, arsenic,
phosphorous, dinitrogen tetroxide dissolved in acetonitrile.

10.6 Hazardous decomposition products

Metal oxide fume

Section 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation: May cause irritation
Skin contact: Powder – irritant effect
Eye contact: Powder – irritant effect
Sensitisation: No effects known
Carcinogenicity: No effects known

Toxicological data LD/LD50 values

Ingredient	Toxicity	Irritation
Indium	Not available	Not available



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Section 12: Ecological information

12.1. Aquatic Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bio-accumulative potential

No information available

12.4 Mobility in soil

Insoluble in water

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Hazardous decomposition products

No information available

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

National regulations: Disposal should be in accordance with local, state or national legislation.



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Section 14: Transport information

14.1. UN number

UN-number: N/A

14.2 UN proper shipping name

Proper shipping name: N/A

14.3 Transport hazard class(es)

Class: N/A
ADR/RID-Classification code: N/A

14.4 Packing group

Packing: N/A

14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A
IMDG-Marine pollutant: N/A
IATA/ICAO-Environmentally hazardous: N/A

14.6 Special precautions for user

ADR/RID-Tunnel code: N/A
IMDG-Ems: N/A
IATA/ICAO-PAX: N/A
IATA/ICAO-CAO: N/A

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable



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Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

All components are listed

15.2 Chemical safety assessment

No information available

Section 16: Other information

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.



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