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### Section 3. Composition / information on ingredients

Chemical or common name:	Indium(III) fluoride
Synonyms:	Indium trifluoride
Chemical formula:	InF <sub>3</sub>
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7783-52-0
RTECS#:	Not listed
TSCA inventory :	Listed
EINECS:	2320050

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### Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

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### Section 5. Fire fighting measures

Extinguishing media:	The product is not combustible. Use media appropriate for surrounding fire.
Fire fighting:	In case of fire, the product may liberate irritating and/or toxic gases. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

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### Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.

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### Section 7. Handling and storage

#### Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
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#### Precautions to be taken in storage:

General precautions:	Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
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## Section 8. Exposure controls / personal protection

Exposure guideline:	Chemical Name	ACGIH(2019) TLV TWA mg/m <sup>3</sup>	OSHA(2006) PEL TWA mg/m <sup>3</sup>
	Indium compounds (as In)	0.1	—
	Fluorides (as F)	2.5	2.5

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

## Section 9. Physical and chemical properties

Appearance: White solid  
 Chemical formula: InF<sub>3</sub>  
 Formula weight: 171.8  
 Melting point: 1170 °C  
 Boiling point: >1200 °C  
 Density: 4.39 g/cm<sup>3</sup>  
 Solubility in water: Slightly soluble  
 Flammability: Non-combustible substance.  
 Oxidation: No data available

## Section10. Stability and reactivity

Stability: Stable in closed container under room temperature.  
 Hygroscopic.  
 Reactivity: No data available  
 Incompatibility: Reducing agents, combustible substances, hydrochloric acid  
 Condition to avoid: Heat, moisture

## Section11. Toxicological information

Acute toxicity(Oral): GHS : No data available  
 Acute toxicity(dermal): GHS : No data available  
 Skin corrosive / irritation: GHS : Category 2 ; Causes skin irritation  
 Serious eye damage / irritation: GHS : Category 2 ; Causes serious eye irritation  
 Respiratory sensitization: GHS : No data available  
 Skin sensitization: GHS : No data available  
 Germ cell mutagenicity: GHS : No data available  
 Carcinogenicity: GHS : No data available

Chemical Name	ACGIH (2019)	IARC (2022)	NTP (2021)
Fluorides	A4	3	—

ACGIH A4 Not classifiable as a Human Carcinogen.

IARC 3 The agent is not classifiable as to its carcinogenicity to humans.

Reproductive toxicity: GHS : No data available  
 Specific target organ toxicity  
 — single exposure: GHS : Category 3 ; May cause respiratory irritation  
 — repeated exposure: GHS : No data available  
 Aspiration hazard: GHS : No data available



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## Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

– acute toxicity: GHS : No data available

– chronic toxicity: GHS : No data available

Hazardous to the ozone layer GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

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## Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

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## Section 14. Transport information

UN classification: Not hazardous

UN number: None

HS code: 2826.19

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

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## Section 15. Regulatory information

TSCA inventory: Listed.

Please refer to any other local / national measures that may be relevant.

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## Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product. Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

