# **GHS Safety Data Sheet**

SDS No.: INH04XAEG Date Issued : 2002/09/04

Last updated  $\div$  2022/05/18

# Section 1. Identification of the substance or mixture and of the supplier

# **Product Information**

Product name: InF<sub>3</sub> Indium fluoride, anhydrous

•						
Product number:	Purity	Form	Size or Shape (mm)			
INH06XB	99%(2N)up	_	_			

# Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone: +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

### Section 2. Hazards identification

# **GHS** Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosion/irritation: Category 2 Serious eye damage/eye irritation: Category 2 Specific target organ toxicity, single exposure: Category 3	No data available	Flammable solids: Not classified Pyrophoric solids: Not classified Self-heating substances and mixtures: Not classified Substances and mixtures which, in contact with water, emit flammable gases: Not classified

GHS Label: W



## Pictograms or symbols:

Warning word: WARNING				
Hazard information	Description of precaution			
Causes skin irritation Causes serious eye irritation May cause respiratory irritation	Wear protective gloves/protective clothing/eye protection/respiratory protection /face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.			



# 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

#### 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.

# 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.

#### 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.

# 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.

### 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.



# Section 8. Exposure controls / personal protection

Exposure guideline:

Chemical Name	ACGIH(2019) TLV	OSHA(2006) PEL
Chemicai Ivame	TWA mg/m³	TWA mg/m³
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

 $\begin{tabular}{ll} Chemical formula: & InF_3 \\ Formula weight: & 171.8 \\ Melting point: & 1170 \ ^{\circ}C \\ Boiling point: & >1200 \ ^{\circ}C \\ Density: & 4.39 \ g/cm^3 \\ Solubility in water: & Slightly soluble \\ \end{tabular}$ 

Flammability: Non-combustible substance.

Oxidation: No data available

# Section 10. 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

### Section 11. 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

Carcinogenicity:

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

 $\label{eq:accidential} {\rm ACGIH} \quad {\rm A4} \quad {\rm Not\ classifiable\ as\ a\ Human\ Carcinogen}.$ 

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



# 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:

Degradability:

Bioaccumulative potential:

Mobility in soil:

No data available

No data available

No data available

# 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.

## 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.

# Section 15. Regulatory information

TSCA inventory: Listed.

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

## 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.

