

## GHS Safety Data Sheet

SDS No. : GAA01XAEG

Date Issued : 2001/02/22

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

#### Product Information

Product name: Ga-In Gallium-Indium alloy

Product	Purity	Form	Size or Shape
GAA08XB	99.99%(4N)	—	Ga-In(75.5 : 24.5%) eutectic
GAA02XB	99.999%(5N)	—	Ga-In(75.5 : 24.5%) eutectic
—	—	solid	Ga-In(1 : 1 mol ratio)

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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

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Recommended uses and restrictions on use: For research purposes

### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	No data available	<b>Corrosive to metals : Category 1</b> <b>Flammable solids : Not classified</b> <b>Pyrophoric solids : Not classified</b> <b>Self-heating substances and mixtures : Not classified</b> <b>Substances and mixtures which, in contact with water, emit flammable gases : Not classified</b>

GHS Label: R



Pictograms or symbols:

Warning word: **Warning**

Hazard information	Description of precaution
<b>May be corrosive to metals</b>	Keep only in original container. Absorb spillage to prevent material damage. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/ container in accordance with local/national regulations.

### Section 3. Composition / information on ingredients

Single Substance or Mixture: Mixture

Composition :

Product Name	Content by wt%	
	Ga	In
Ga-In(75.5 : 24.5wt%)	75.5	24.5
Ga-In(1 : 1 molar ratio)	37.8	62.2



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**Ingredients information :**

Hazardous Ingredients		Cas No.	RTECS No.	TSCA Inventory	EINECS
Gallium	Ga	7440-55-3	LW8600000	listed	2311638
Indium	In	7440-74-6	NL1050000	listed	2311800

**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: Use media appropriate for surrounding fire. This product is non-flammable.
- Fire fighting: 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:**

Remove all sources of ignition.  
Avoid unnecessary contacts with spills.  
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 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.  
DO NOT use metallic container.

**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	0.1	—



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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, face shields, protective gloves

## Section 9. Physical and chemical properties

Color and Form: Silver or bluish white liquid above 15 °C(eutectic point).

Flammable: Non-flammable substance

Oxidation: None

Ingredients Name	Formula	Formula Weight	Melting Point( °C)	Boiling Point( °C)	Density (g/ cm <sup>3</sup> )	Water Solubility
Gallium	Ga	69.72	27.78	2403	5.907	insoluble
Indium	In	114.82	156.6	2080	7.31	insoluble

## Section10. Stability and reactivity

Stability: Stable in closed container at room temperature.

Reactivity

Incompatibility: Strong oxidizing agents, strong acids, strong bases, halogens

Condition to avoid ; Moisture.

## Section11. Toxicological information

Acute toxicity(Oral): GHS : Not classified ; Falls below the lowest level.  
In oral rat LD<sub>50</sub> > 2000 mg/kg (PATTY 6h(2012))

Skin corrosive / irritation: GHS : No data available

Serious eye damage / irritation: GHS : No data available

Respiratory sensitization: GHS : No data available

Skin sensitization: GHS : No data available

Germ cell mutagenicity: GHS : No data available

Carcinogenicity: GHS : No data available

Reproductive toxicity: GHS : No data available

Specific target organ toxicity

— single exposure: GHS : No data available

— repeated exposure: GHS : No data available

Aspiration hazard: GHS : No data available

## Section12. 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

## Section13. 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 number: 1760  
IATA shipping name: Corrosive liquid, n.o.s.  
IATA classification: Hazardous Class 8 (Corrosive substances )  
IATA packing group: III  
HS code: 8112.99  
Marine pollution: None

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**Section 15. Regulatory information**

TSCA inventory: Ga, In ; 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.

