SDS No. : HGH01XAEG

Date Issued:2015/10/01

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

1.1 Product Information

Product name: HgI2 Mercury iodide, anhydrous

Product number:	Purity	Form	Size
HGH22XB		solid	

1.2 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

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(Oral) : Category 2 Acute toxicity(Dermal) : Category 2 Skin corrosion/ irritation : Category2 Serious eye damage/eye irritation : Category 2A Skin sensitization : Category 1	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 Oxidizing solids : Not classified
GHS Label: T		

Pictograms or symbols :

Warning word: DANGER	
Hazard information	Description of precaution
Fatal if swallowed Fatal in contact with skin Causes skin irritation. Causes serious eye irritation May cause an allergy skin reaction	 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment and collect spillage. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for at least 15 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. Immediately call a POISON CENTER or doctor/physician. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information: With respect to additional hazard information, see Section 11.

Chemical or common name:	Mercury(II) iodide
Synonyms	Mercuric iodide
Single Substance or Compound:	Single substance
Chemical formula:	\mathbf{HgI}_2
Composition:	100%
CAS#:	7774-29-0
RTECS#:	OW5250000
TSCA inventory :	listed
EINECS:	2318738

Section 3. Composition / information on ingredients

(See Section 8 for **Exposure Limits**)

Section 4.	First aid	measures
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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

This product cannot catch fire. Use media appropriate for surrounding fire.
In case of fire, the product may liberate toxic gases.
Self-contained breathing apparatus and full protective clothing should be used,
if this product 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	Shut off leak if without risk.
hazard precautions:	Prevent flow out to river, etc. so as not to badly affect.
Method for	Indoor leakage: Ventilate as much as possible until the cleaning is completed.
containment and	Outdoor leakage: Work from the windward and evacuate the leeward crowd.
cleaning up:	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.	
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:			
I to be to be	Chemical Name	ACGIH(2013)	OSHA(2006)
		TLV-TWA	PEL-TWA
	Mercury inorganic compounds (as Hg)	0.025 mg/m^3	0.1 mg/m^3
Facility measures:	Local ventilation of closed work room or total proper ventilation to prevent inhalation. Use explosion-proof electrical/ventilating/lighting/ equipment.		
D			
Protective ware:	Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.		

Section 9. Physical and chemical properties

Color and Form:	Red solid, odorless.
Chemical formula:	HgI_2
Formula weight:	454.4
Melting point:	259 °C (transition : 130°C red \rightarrow yellow)
Boiling point:	354 $^{\circ}\mathrm{C}$
Density:	6.28 g/cm ³
Water solubility:	Insoluble
Soluble:	Ethanol, Soluble in solutions of sodium thiosulfate
Flammable:	Non-combustible substance
Oxidation:	None

Section 10. Stability and reactivity

Stability:	Block out light. Stable in closed container at room temperature.
Reactvity	Sensitive to light.
Incompatibility:	Strong oxidizing agents

Section 11. Toxicological information

Acute toxicity(Oral):	GHS: Category 2; Fatal if swallowed
	Oral rat $LD_{50} = 18 \text{ mg/kg} (RTECS(2005))$
Acute toxicity(Dermal):	GHS: Category 2; Fatal in contact with skin
	Dermal rat $LD_{50} = 75 \text{ mg/kg} (RTECS(2005))$
Acute toxicity(Inhalation):	GHS : No data available

Skin corrosive / irritation:

Respiratory sensitization:

Skin sensitization:

Serious eyes damage / eye irritation:

Germ cell mutagenicity:

Carcinogenicity:

GHS: No data available GHS: Not classified.; Falls below the lowest level.

Carcinogenicity:

	ACGIH	IARC	NTP
Chemical Name	(2013)	(2014)	(2014)
Copper	A4	3	_
100777			

ACGIH A4 Not classifiable as a human carcinogen.

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

Reproductive toxicity: Specific target organ toxicity —single exposure: —repeated exposure: Aspiration hazard:

GHS : No data available GHS : No data available GHS ; No data available

GHS: No data available

Section 12. Ecological information

Ecotoxicity:

Hazards 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:

Ingredients	Biological half-life	Rate of a	bsorption
Name	(day)	oral	respiratory tract
Hg	10	0.75	0.63

Mobility in soil:

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 number:	1638
IATA shipping name:	MERCURY IODIDE
IATA classification:	Hazardous Class 6.1 Toxic substances
IATA packing group:	П
HS code:	2827.60
Marine pollution:	Yes

Section 15. Regulatory information

TSCA inventory: listed.

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

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.