

Section 3. Composition / information on ingredients

Chemical or common name:	Mercury(II) iodide
Synonyms	Mercuric iodide
Single Substance or Compound:	Single substance
Chemical formula:	HgI ₂
Composition:	100%
CAS #:	7774-29-0
RTECS#:	OW5250000
TSCA inventory :	listed
EINECS:	2318738

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

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:	This product cannot catch fire. Use media appropriate for surrounding fire.
Fire fighting	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 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 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:

Chemical Name	ACGIH(2013) TLV-TWA	OSHA(2006) 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.

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: HgI₂
Formula weight: 454.4
Melting point: 259 °C (transition : 130°C red → yellow)
Boiling point: 354 °C
Density: 6.28 g/cm³
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.
Reactivity: Sensitive to light.
Incompatibility: Strong oxidizing agents

Section 11. Toxicological information

Acute toxicity(Oral): GHS : Category 2 ; Fatal if swallowed
Oral rat LD₅₀ = 18 mg/kg (RTECS(2005))
Acute toxicity(Dermal): GHS : Category 2 ; Fatal in contact with skin
Dermal rat LD₅₀ = 75 mg/kg (RTECS(2005))
Acute toxicity(Inhalation): GHS : No data available

Skin corrosive / irritation: GHS : Category 2 ; Causes skin irritation
 Serious eyes damage / eye irritation: GHS : Category 2A ; Causes serious eye irritation
 Respiratory sensitization: GHS : No data available
 Skin sensitization: GHS : Category 1 ; May cause an allergy skin reaction.
 Germ cell mutagenicity: GHS : No data available
 Carcinogenicity: GHS : Not classified.; Falls below the lowest level.

Chemical Name	ACGIH (2013)	IARC (2014)	NTP (2014)
Copper	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 : No data available
 —repeated exposure: GHS : No data available
 Aspiration hazard: 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 Name	Biological half-life (day)	Rate of absorption	
		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: II
 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.