



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Iodine
- Product Number: IOD-20260202
- Brand: SIGALD
- CAS-No.: 7553-56-2
- Synonyms: Elemental Iodine; Diiodine

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Disinfectant (medical, water treatment), organic synthesis, pharmaceutical intermediate, dye production, laboratory reagent.
- Uses Advised Against: Direct oral consumption; unauthorized medical use.

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion/irritation (Category 2); Eye damage (Category 2A); Aquatic toxicity (Category 1); Respiratory irritation (Category 3)

- Hazard Pictogram: GHS07 (Exclamation mark), GHS09 (Environment)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation), H400 (Very toxic to aquatic life)
- Precautionary Statements: P261 (Avoid breathing dust/vapors), P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: I₂
- Molecular Weight: 253.81 g/mol
- Concentration: ≥ 99.5% (I₂)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, consult a doctor.



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Skin Contact: Remove contaminated clothing, rinse skin thoroughly with running water for 10 minutes. Apply 10% sodium thiosulfate solution if irritation occurs.
- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice immediately.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO₂.
- Special Hazards: Non-combustible. Releases toxic iodine vapor when heated.
- Firefighter Protection: Wear standard fire-fighting gear and respiratory protection.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection, dust mask.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Sweep up with inert material (sand, vermiculite), transfer to sealed containers for disposal.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area. Avoid contact with skin, eyes, and respiratory tract.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Avoid direct sunlight and high temperatures ($\leq 30^{\circ}\text{C}$).
- Shelf Life: 24 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (P2/N95 for large-scale handling).
- Engineering Controls: Good ventilation, local exhaust system.

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline solid/flakes
- Color: Deep violet to almost black
- Odor: Pungent, irritating
- Melting Point: 113.7°C
- Boiling Point: 184.4°C
- Solubility: Slightly soluble in water; soluble in ethanol, chloroform, potassium iodide solution.
- Density: 4.93 g/cm³ (25°C)
- Vapor Pressure: 0.13 kPa (25°C)

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with reducing agents, metals, ammonia, organic materials.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): 1400 mg/kg
- Skin Irritation: Moderate irritation.



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Eye Irritation: Severe irritation.

SECTION 12: Ecological Information

- Aquatic Toxicity: Very toxic to fish ($LC_{50} < 1$ mg/L, 96h).
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Neutralize with sodium thiosulfate solution before disposal.

SECTION 14: Transport Information

- UN Number: UN1827
- Transport Hazard Class: 8 (Corrosive substances)
- Packaging Group: III

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (for medical grade) regulations.

SECTION 16: Other Information

- Revision Date: 02 FEB 2026



纳维盈医化科技
NEWAY SINOPHC TECH