

Material Safety Data Sheet (MSDS)

Product Name: Potassium Iodide IP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Potassium Iodide (IP Grade)
- **Chemical Formula:** KI
- **Molecular Weight:** 166.00 g/mol
- **Recommended Use:** Pharmaceutical excipient, reagent, nutritional supplement, laboratory chemical.

2. Hazards Identification

- **Classification (GHS):**
 - Eye Irritation: Category 2A
 - Specific Target Organ Toxicity (Repeated Exposure): Category 2 (thyroid)
- **Signal Word:** *Warning*
- **Hazard Statements:**

- Causes serious eye irritation.
 - May cause thyroid disturbances upon prolonged exposure.
 - **Precautionary Statements:**
 - Avoid inhalation and ingestion.
 - Wash thoroughly after handling.
 - Wear protective gloves/eye protection.
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3. Composition / Information on Ingredients

- **Substance Name:** Potassium Iodide
 - **CAS Number:** 7681-11-0
 - **EC Number:** 231-659-4
 - **Purity:** ≥ 99% (IP Grade)
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4. First Aid Measures

- **Inhalation:** Move person to fresh air. If symptoms persist, seek medical attention.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice immediately.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
 - **Special Hazards:** Non-flammable but may release toxic iodine vapors when heated.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA).
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6. Accidental Release Measures

- **Personal Precautions:** Use PPE (gloves, goggles, mask). Avoid dust formation.
- **Environmental Precautions:** Prevent entry into drains or watercourses.
- **Methods for Cleaning:** Sweep up carefully, place in a suitable container for disposal.

7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Use in well-ventilated areas.
- **Storage:** Store in a tightly closed container, in a cool, dry, and well-ventilated area. Protect from moisture and light.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established for Potassium Iodide.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment:**
 - Respiratory: Dust mask if ventilation is inadequate.
 - Hands: Nitrile gloves.
 - Eyes: Safety goggles.
 - Skin: Protective clothing.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Melting Point:** 681 °C
- **Boiling Point:** Decomposes before boiling
- **Solubility:** Freely soluble in water
- **Density:** 3.13 g/cm³
- **pH (5% solution):** ~7

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Conditions to Avoid:** Heat, moisture, exposure to light.
- **Incompatible Materials:** Strong oxidizing agents, bromine, chlorine.
- **Decomposition Products:** Iodine vapors, potassium oxides.

11. Toxicological Information

- **Acute Toxicity (Oral, Rat):** LD₅₀ = ~2779 mg/kg
- **Skin/Eye Irritation:** May cause mild irritation.
- **Chronic Effects:** Prolonged exposure may affect thyroid gland.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Toxicity to Aquatic Life:** May be harmful in large quantities.
- **Persistence & Degradability:** Soluble and mobile in water.
- **Bioaccumulation:** Not expected.
- **Precautions:** Avoid release into the environment.

13. Disposal Considerations

- **Product Disposal:** Dispose in accordance with local regulations.
- **Contaminated Packaging:** Wash and recycle or dispose as chemical waste.

14. Transport Information (Detailed)

- **UN Number:** Not regulated (for Potassium Iodide in normal form).
- **Proper Shipping Name:** Potassium Iodide
- **Transport Hazard Class:** Not classified as hazardous for transport.
- **Packing Group:** Not applicable
- **Labels Required:** None

- **Marine Pollutant:** No
 - **Special Precautions for User:**
 - Protect packages from physical damage.
 - Prevent exposure to moisture and sunlight.
 - Ensure containers are tightly sealed to prevent leakage.
 - **Transport by Road (ADR/RID):** Not regulated as hazardous.
 - **Transport by Air (IATA/ICAO):** Not restricted.
 - **Transport by Sea (IMDG):** Not regulated.
 - **Additional Notes:** Though not classified as dangerous, large quantities should be transported with standard chemical handling precautions.
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15. Regulatory Information

- **Labeling (GHS):** Irritant
 - **Regulations:** Conforms to Indian Pharmacopoeia (IP) standards.
 - **Other:** Ensure compliance with local, regional, and international regulations.
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16. Other Information

- **Abbreviation Key:** GHS – Globally Harmonized System; IATA – International Air Transport Association; IMDG – International Maritime Dangerous Goods.
- **Disclaimer:** Information is believed to be correct but is not exhaustive. Users are responsible for ensuring suitability for their intended purpose.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.