

SAFETY DATA SHEET

POTASSIUM IODIDE

CAS No.: 7681-11-0

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Potassium Iodide
CAS Number	7681-11-0
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Warning
HAZARD CLASSIFICATION • Serious eye irritation - Category 2B	
HAZARD STATEMENTS • H320 - Causes eye irritation	
PRECAUTIONARY STATEMENTS • P264 - Wash exposed skin thoroughly after handling • P280 - Wear protective gloves/eye protection/face protection • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P337+P313 - If eye irritation persists: get medical advice/attention • P501 - Dispose of contents/container in accordance with local regulations	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Potassium Iodide
CAS Number	7681-11-0
Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Wash off with water; not expected to cause more than transient irritation.
Inhalation	Remove to fresh air; if dust inhalation causes coughing or discomfort, seek medical attention.
Ingestion	Rinse mouth with water; give water to drink; low acute toxicity at typical handling quantities, but seek medical advice if large amounts are ingested.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Non-combustible; use any extinguishing media suitable for the surrounding fire.
Unsuitable Extinguishing Media	None identified.
Special Hazards	None significant; may release irritating iodine vapor if strongly heated or in contact with strong oxidizers/acids.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep up avoiding excessive dust generation and collect in a suitable container for reuse or disposal; no special environmental precautions normally needed for small spills.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid generating and inhaling dust; avoid contact with strong oxidizers and acids; use standard industrial hygiene practices.
Storage Conditions	Store in a cool, dry, well-ventilated place in a tightly closed, light-resistant container away from strong oxidizers and acids (iodide can be oxidized to free iodine).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established for potassium iodide itself (iodine has its own limits, ~0.1 ppm ceiling); use a dust mask and safety glasses when handling large quantities.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.
Boiling Point	~1,330 C
Melting Point	~681 C
Flash Point	Not applicable (inorganic solid, non-combustible)
Density / Specific Gravity	~3.13 g/cm3
Water Solubility	Very soluble, ~1,500 g/L at 25 C, increasing markedly with temperature
pH Value	~7.0-9.0 (5% aqueous solution, neutral to mildly alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable under normal, dry, dark storage conditions; may slowly oxidize/discolor (liberating iodine) on prolonged exposure to air, light and moisture.
Incompatible Materials	Strong oxidizing agents (can liberate free iodine and iodine vapor) and strong acids.
Hazardous Decomposition	Iodine vapor may be released on strong heating or reaction with oxidizers/acids.

11. TOXICOLOGICAL INFORMATION

Summary	Causes eye irritation from dust; low acute toxicity (oral LD50, rat, >1,000 mg/kg); a well-established pharmaceutical and nutritional (iodine-source) ingredient used in thyroid protection and iodized salt; excessive chronic iodide intake can affect thyroid function, but this is a dose-related nutritional/pharmacological consideration rather than an acute hazard; not classified as a carcinogen, mutagen or reproductive toxicant.
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12. ECOLOGICAL INFORMATION

Summary	Not classified as hazardous to the environment; readily dissociates in water into naturally occurring potassium and iodide ions with low aquatic toxicity at normal use levels.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local regulations; generally suitable for dilution to sewer within permitted limits or landfill disposal; not typically classified as hazardous waste.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Used in pharmaceuticals, photography, analytical chemistry and salt iodization; food/pharma-grade material should meet IP/BP/USP/FCC specifications; not classified as hazardous under GHS, OSHA HCS or EU CLP beyond eye irritation.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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