



SAFETY DATA SHEET

PRODUCT NAME: POTASSIUM IODIDE

Issue Date: May 23

IDENTIFICATION

Product Name: Potassium Iodide
Other Names: -
Product Code: ZPIODI
Uses: Pharmaceuticals, dietary source of iodine, industrial. Odourless, white crystals.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Email: sales@hamchem.nz Web: www.hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Skin Sensitisation – Category 1

Hazardous to the Aquatic Environment (Chronic) – Category 2

Signal Word: WARNING

Hazard Statements:

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves
P273 Avoid release to the environment.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Disposal

P501 Dispose of contents/container to an approved waste facility in accordance with local regulations

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Potassium Iodide	7681-11-0	>98%

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HamChem Ltd, 75 Ruffell Road, Hamilton, New Zealand. Phone: 07-974-4971 Email: info@hamchem.nz Web: www.hamchem.nz

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FIRST AID MEASURES

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a Doctor immediately in every case of suspected poisoning.

Inhalation: Remove patient to fresh air. Lay patient down and keep warm and rested. Encourage patient to blow nose to ensure clear passage for breathing. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

Skin Contact: Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water for at least 15 minutes. Seek medical assistance immediately.

Eye Contact: Immediately hold eyelids open and flush the eye continuously with running water. Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical assistance immediately.

Ingestion: Clean mouth with Water and then drink plenty of water, seek medical attention. DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor. Never give anything by mouth to an unconscious person. Seek medical assistance immediately.

Notes to physician: Treat symptomatically.

FIRE FIGHTING MEASURES

Fire/explosion hazard: Produces Hydrogen Iodide, Potassium oxides on combustion.

Fire-fighting advice: Alert Fire Brigade and tell them location and nature of hazard. Wear self-contained breathing apparatus plus suitable protective clothing. Prevent spillage from entering drains and water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Suitable Extinguishing Media: Water spray or fog, foam, dry chemical, carbon dioxide.

ACCIDENTAL RELEASE MEASURES

Minor spills: Clean up spill immediately. Slippery when spilt. Avoid contact with skin & eyes. Control personal contact with substance, by using PPE. Will not fully disperse in water. Do not flush down drains or into waterways. Sweep or vacuum up spill.

Major spills: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact with substance by wearing PPE.

Environmental Precaution: Contain spill and prevent from entering drains & waterways.

HANDLING & STORAGE

Handling advice: Avoid personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in well ventilated area.

Storage advice: Bags should be stacked, blocked, interlocked and limited in height so that they are stable and secure against sliding or collapse. Store in original containers. Keep containers securely sealed. Store in a cool, dry area < 15°C, protected from environmental extremes. Store away from incompatible materials and foodstuff containers.

Suitable container: Blass container suitable for laboratory quantities. Foil, paper, polyethylene or polypropylene containers. Check all containers are clearly labelled and free from leaks.

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EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure standards: No value assigned for this specific material by Worksafe New Zealand. However, Workplace Exposure Standard(s) for particulates:
Dust otherwise not specified: WES-TWA 10 mg/m³ – inspirable dust, 3 mg/m³ - respirable dust.

Engineering controls: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Personal protective equipment: Wear gloves to prevent irritation and drying of skin, always wash hands before eating, drinking or using the toilet. Wear safety glasses/goggles. Wear overalls, and protective footwear to prevent contact with skin, chemical resistant apron if necessary. Wash contaminated clothing and other protective equipment before storage or re-use.

Hygiene precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Crystals
Colour:	White
Odour:	Odourless
Solubility in water:	Soluble in water, ethanol, methanol, and acetone
Specific Gravity:	3.1
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	Negligible
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not available
Autoignition Temperature (°C):	Not available
Melting Point/Range (°C):	680
Boiling Point/Range (°C):	1330
Decomposition Point (°C):	Not available
pH:	6-9 (5% solution)

STABILITY & REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage. On long exposure to air becomes yellow due to release of Iodine.

Conditions to avoid: Avoid air, moisture, light and incompatibles, tin/tin oxides.

Incompatible materials: Strong reducing agents, Nickel, strong acids, and its alloys, steel (all types and surface treatments), aluminium, alkali metals, brass, magnesium, zinc cadmium, copper.

Hazardous decomposition products: Hydrogen Iodide, Potassium Oxides

Hazardous reactions: On contact with air will yield iodine. On contact with moist air will release iodine, hydrogen iodide and potassium monoxide. Hazardous polymerisation will not occur. Hygroscopic - absorbs moisture from surrounding air.

Hazardous polymerisation: will not occur.

TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: May cause gastrointestinal disturbances with nausea, vomiting and diarrhea.

Eye contact: Dust may cause mechanical eye irritation.

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Skin contact: May cause mechanical skin irritation with redness and pain. Epidemiological data shows that a small quantity of the product may cause skin sensitization. The symptoms include redness, itching and skin rash. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Inhalation: Breathing in dust may result in respiratory irritation.

Long Term Effects: Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

Toxicological Data: Oral LD50 (rat): 1000 mg/kg

Chronic effects: No Data.

Reproductive toxicity: Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism. Iodine-containing drugs have been associated with fetal goiter.

ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) – 2,190 mg/l – 96h

Toxicity to daphnia & other aquatic invertebrates EC50 – *Daphnia* – 2.7 mg/l – 24h

Bioaccumulation: Not likely to bio accumulate

DISPOSAL CONSIDERATIONS

Product disposal: Dispose in accordance with all applicable regulations. It is the responsibility of the user of the product to determine, at the time of disposal.

Container disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

TRANSPORT INFORMATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land.

REGULATORY INFORMATION

HSNO hazard classifications: 6.5B, 9.1B

EPA Approval: HSR002503 – Additives, Process Chemicals & Raw Materials (Subsidiary Hazard) Group Standard 2020

OTHER INFORMATION

End of SDS.