

MATERIAL SAFETY DATA SHEET

NOT Hazardous according to criteria of Worksafe

1. IDENTIFICATION

General

Product Name : POTASSIUM IODIDE

Other Names :

UN No. : N/A

Dangerous Goods Class : None Allocated

Subsidiary Risk : None Allocated

Hazchem Code : N/A

Pack Group : 0

EPG : N/A

Poisons Schedule : N/A

Uses :

Reagent in analytical chemistry, photographic emulsions (precipitating Ag), feed additive, spectroscopy, infrared transmission, scintillation, dietary supplement (up to 0.01% in table salt).

1.1 Physical Description / Properties

Appearance : White odourless granules or crystals.

Formula : KI

Boiling Point : 1330 deg C

Melting Point : 686 deg C

Vapour Pressure : N/A

Specific Gravity : 3.123 (water = 1)

Flash Point : N/A

pH : N/A ()

Solubility in water : 1440 g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

1.2 Other Properties

Soluble in water, alcohol, acetone and glycerol.

1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
POTASSIUM IODIDE	[7681-11-0]	> 99

2. HEALTH HAZARD INFORMATION

2.1 Health Effects - Acute

Swallowed

May cause gastrointestinal irritation.

Eye

May cause irritation.

Skin

May cause irritation.

Inhaled

May cause irritation to the upper respiratory tract.

2.2 Health Effects - Chronic

Chronic exposure can lead to iodism characterised by salivation, nasal discharge sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis and skin rashes. Chronic ingestion of iodides during pregnancy has resulted in foetal death, severe goiter, and cretinoid appearance of the newborn.

2.3 First Aid

Swallowed

If conscious, give large amounts of water and induce vomiting. Call a physician

Eye

Immediately flush eyes with copious amounts of water for at least 15 minutes. Call a physician.

Skin

Immediately wash skin with copious amounts of water. Wash contaminated clothing before reuse. Call a physician

Inhaled

Remove to fresh air, if not breathing, give artificial respiration. If breathing is difficult, give oxygen.

First Aid Facilities

Ensure an eye bath and safety shower are available and ready for use.

2.5 Advice to Doctor

Treat symptomatically based on judgement of doctor and individual reactions of patient.

2.6 Toxicity Data

Oral LD50 = not available Dermal LD50 = not available Inhalation LC50 = not available Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP or OSHA. Teratogenicity - Iodine salts can cause deformity, illness and death of a foetus Reproductive effects - OrI-wmn TDLo : 2700 mg/kg (1-39W preg) ; orI-rat TDLo 40530 mg/kg (1-9D preg) ; orI-rat TDLo : 820 mg/kg (2W male/2W pre-13D post) orI-rat TDLo : 922 mg/kg (2W male/2W pre-21D post) orI-rat TDLo : 300 mg/kg (9D preg) orI-ham TDLo : 3600 mg/kg (5-16D preg) orI-mam TDLo : 294 mg/kg (30D pre) orI-mam TDLo : 1177 mg/kg (30D pre).

3. PRECAUTIONS FOR USE

3.1 Exposure Standards

An exposure limit has not been established for this material by Worksafe .

3.2 Engineering Controls

Use adequate general or local exhaust ventilation to maintain exposure levels below recommended workplace standards.

3.3 Personal Protection

Wear suitable protective clothing, PVC gloves, safety goggles, face mask, boots and other general industrial clothing to minimise exposure. In dusty conditions wear suitable breathing protection.

3.4 Flammability

Not flammable under conditions of use.

SAFE HANDLING INFORMATION

4.1 Storage / Transport

Store in a cool dry area below 40 deg C. Keep container tightly closed. Suitable for any general storage area.

4.2 Packaging / Labelling

UN No. N/A

Class None Allocated

Sub Risk None Allocated

Hazchem Code N/A

Pack Group 0

EPG No. N/A

Shipping Name POTASSIUM IODIDE

Hazard

Risk Phrases

Safety Phrases

S24/25 Avoid contact with skin and eyes.

4.3 Spills and Disposal

Spills

Clean-up personnel should wear full protective clothing including self-contained breathing apparatus.

With a clean shovel, carefully place material into a clean, dry container and cover. Remove from area. Flush spill area with water.

Disposal

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

4.4 FIRE AND EXPLOSION HAZARD

Fire / Explosion

Incompatible with strong oxidising agents, bromine trifluoride and trichloride and metallic salts, salts of alkaloids, chloral hydrate, calomel (mercurous chloride), potassium chlorate, tartaric and other acids, fluorine perchlorate, diazonium salts, charcoal, ozone, steel, aluminium, alkali metals, brass, magnesium, zinc, cadmium, copper, tin, nickel, light, air and moisture. Hazardous decomposition products include hydrogen iodide, oxides of potassium, and iodine. Hazardous polymerisation will not occur.

Extinguishing Media

Fire-fighters should wear full protective clothing self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions.