



255 Norman.
Lachine (Montreal), Que
H8R 1A3

Material Safety Data Sheet

EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)
(CAN) CANUTEC : 1(613) 996-6666 (24hrs)
(USA) Anachemia : 1(518) 297-4444
(CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: D-2A		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.

Section I. Product Identification and Uses

Product name	POTASSIUM IODIDE	CI#	Not available.
Chemical formula	KI	CAS#	7681-11-0
Synonyms	Hydriodic acid potassium salt, K1-N, Knollide, Potide, AC-7670, AC-7670N, AC-7671, 74210, 74198, 74222	Code	AC-7670
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	166.00
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients

Name	CAS #	%	TLV
1) POTASSIUM IODIDE	7681-11-0	60-100	Not established by ACGIH

Toxicity values of the hazardous ingredients

POTASSIUM IODIDE:
ORAL (LDLo): Acute: 1862 mg/kg (Mouse). 916 mg/kg (Rabbit).

Section III. Physical Data

Physical state and appearance / Odor	White odorless crystals.
pH (1% soln/water)	6-9.2 @ (5%, 25°C)
Odor threshold	Not available.
Percent volatile	0% at 21°C
Freezing point	680°C
Boiling point	1330°C
Specific gravity	3.13 (Water = 1)
Vapor density	Not available.
Vapor pressure	1 mm Hg @ 745°C
Water/oil dist. coeff.	Not available.
Evaporation rate	Not applicable.
Solubility	Easily soluble in cold water.

Section IV. Fire and Explosion Data

Flash point	Not available.
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Fire degradation products	Hydrogen iodide. Oxides of potassium. Iodine. Iodides.
Fire extinguishing procedures	Use extinguishing media suitable for surrounding materials. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode.
Fire and Explosion Hazards	The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Inhalation and ingestion. Eye contact. Skin contact.
Effects of Acute Exposure	Harmful by ingestion, inhalation or skin absorption. Irritant. Target organs: thyroid.
Eye	Eye irritation with redness, pain, and conjunctivitis.
Skin	Causes skin irritation.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract.
Ingestion	Causes gastrointestinal irritation. Weakness.

Section V. Toxicological Properties

Effects of Chronic Overexposure Hypothyroidism with possible goiter. Skin sensitization possible. May produce "iodism" which may be manifested by skin rash (boils, blisters, blue and black spots), running nose, headache, salivation, diarrhea, rhinitis and irritation of the mucous membranes. Weakness, anemia, loss of weight, laryngitis, bronchitis, stomatitis, conjunctivitis, edema of the glottis and general depression may also occur. May cause reproductive effects based on studies in laboratory animals. Mutagen. Postnatal development injury in animal. Embryotoxic and/or foetotoxic in animal. Passes through the placental barrier in human. Excreted in maternal milk in human. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

Skin contact Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. If irritation occurs or persists seek medical attention. Wash contaminated clothing before reusing. Discard contaminated leather articles such as shoes and belt.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

Ingestion If conscious, wash out mouth with water. Have conscious person drink several glasses of water to dilute. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

Section VII. Reactivity Data

Stability Unstable. Light and moisture sensitive. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products Hydrogen iodide. Oxides of potassium. Iodine. Iodides.

Incompatibility Reacts violently with oxidizing agents, perchloric acid, bromine trifluoride, bromine trichloride, chlorine trifluoride, chloral hydrate, fluorine perchlorate, diazonium salts, potassium perchlorate, diisopropyl peroxydicarbonate, bromine pentafluoride, charcoal, calomel, alkali metals. Acids, organic materials, metals (ex: steel, aluminum, brass, magnesium, zinc, cadmium, tin, copper, nickel and their alloys), reducing agents, metallic salts, tartaric acid.

Reaction Products Will corrode a wide variety of metals. May decompose on exposure to light or to moist air. May discolor on exposure to light or air (it becomes yellow and yields iodine and potassium iodate). Solutions can be corrosive to metals. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

POTASSIUM IODIDE

page 4/4

Protective Clothing in case of spill and leak A self contained breathing apparatus should be used to avoid inhalation of the product.

Spill and leak Evacuate and ventilate the area. Sweep up and place in container for disposal. Avoid raising dust. Wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch spilled material.

Waste disposal According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep away from direct sunlight or strong incandescent light. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.). Product is highly hygroscopic.

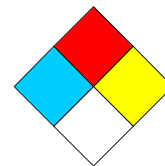
Section IX. Protective Measures

Protective clothing Splash goggles. Impervious gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. A OSHA/MSHA jointly approved respirator is advised in the absence of proper environmental controls. For emergency situations, a self-contained respirator is recommended (NIOSH-approved). Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Local mechanical exhaust ventilation capable of minimizing dust emissions at the point of use. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Embryotoxic and foetotoxic! Mutagen! Reproductive toxin! Suspected teratogen! Harmful solid! Sensitizer! Irritant! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Air and light sensitive. Handle and open container with care. Container should be opened only by a technically qualified person.
SYNERGISTIC PRODUCTS: INCREASES THE TOXICITY OF SELENIUM.
RTECS NO: TT2975000 (Potassium iodide).



NFPA

Prepared by MSDS Department/Département de F.S..

Validated 03-Feb-2010



While the company believes the data set forth herein are accurate as of the date hereof, the company makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.