

Material Safety Data Sheet Potassium Iodide USP

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Potassium Iodide USP

Synonyms: Potassium monoiodide; Potide; Hydriodic acid; Potassium salt.

Chemical Family: None Known

Application: Industrial.

Distributed By:

Ingredient Depot

Prepared By: Ingredient Depot Compliance & Regulatory Affairs Dept.

Preparation date of MSDS: 25 October 2018

Telephone number of preparer: 1-800-463-0665

24-Hour Emergency Telephone Number: 1-800-463-0665

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Potassium Iodide USP CAS #: 7681-11-0	100	Oral LD50 (Rat) 4800 mg/kg

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May irritate eyes. Symptoms include pain, redness and tearing.

Skin Contact: Causes skin irritation. May cause transient redness and pain.

Inhalation: May cause irritation of the respiratory tract. Symptoms may include coughing and shortness of breath.

Ingestion: May result in irritation of the mouth and gastrointestinal tract.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin Contact: Flush with copious amounts of water for at least 15 minutes. Get medical attention if irritation develops.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: None.

Flash Point Method: Not applicable.

Autoignition Temperature: Not available.

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Exposure Hazards: Not Available.

Hazardous Decomposition/Combustion Materials (under fire conditions): Fumes of iodine. Hydrogen iodine. Oxides of potassium.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Procedure for Clean Up: Ventilate area. Avoid raising dust. Sweep up and place in an appropriate closed container. After removal, flush contaminated area with water and collect for disposal.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store under cool, dark, dry conditions. Keep containers tightly closed. Keep in a well-ventilated area. Place away from incompatible materials. Store in accordance with good industrial practices. Prolonged storage is not recommended because of possible degradation problems, including yellowing of the potassium iodide product. Always inspect the potassium iodide's colour and overall quality before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use of mechanical or local exhaust systems is recommended. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Respiratory Protection: If dusty conditions are encountered, use a NIOSH approved dust respirator.

Gloves:

Impervious gloves.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Chemical goggles.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Potassium Iodide USP	Not available.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Crystal Powder.

Colour: White

Odour: Odourless

pH: 7-9

Specific Gravity: 3.1

Boiling Point: 1330°C /2426°F

Freezing/Melting Point: 680°C / 1256°F

Vapour Pressure: 1 @ 745 °C

Vapour Density: Not Available.

% Volatile by Volume: 0

Evaporation Rate: Not Available.

Solubility: 140 gm/ 100 gm water

VOCs: Not Available.

Viscosity: Not Available.

Molecular Weight: 166

Other: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Unstable under the following conditions: hygroscopic when exposed to light and long exposure to air; becomes yellow and yields iodine and potassium iodate. Moisture.

Materials to Avoid: Diazonium salts, diisopropyl peroxydicarbonate, oxidants, bromine and chlorine, trifluorides, and fluorine perchlorate, calomel, potassium chlorate, metallic salts, tartaric acid and other acids.

Hazardous Decomposition Products: Yields iodine when in contact with air. Release of iodine, potassium monoxide, and hydrogen iodide, when in contact with moist air.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: May result in irritation of the mouth and gastrointestinal tract.

Skin Contact: Causes skin irritation. May cause transient redness and pain.

Inhalation: May cause irritation of the respiratory tract. Symptoms may include coughing and shortness of breath.

Eye Contact: May irritate eyes. Symptoms include pain, redness and tearing.

Additional Information: Hypothyroidism with possibility of goitre (hypertrophy of the thyroid gland), possible sensitization of skin. Chronic ingestion of iodides may produce "iodism" which may be characterized by skin rash, running nose, headache, and irritation of mucous membranes. Weakness, anemia, loss of weight, and general depression may also occur. Ingestion of large amounts may cause angioneurotic edema, cutaneous and mucosal hemorrhage, fever or lymph node enlargement. Synergistic Materials: Lithium carbonate.

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Potassium Iodide USP	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Mutation and reproductive effects cited (RTECS, 1982). The use of iodides for asthma in pregnancy has caused fetal death and deformity (severe goiter and cretanoid appearance of the newborn). Chronic feeding to female animals effects fertility and reproduction.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Potassium Iodide USP	Not Available.	Not Available.	Not Available.

Other Information:

No additional remark.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Potassium Iodide USP	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Not Listed.

WHMIS Hazardous Class:

D2A VERY TOXIC MATERIALS

D2B TOXIC MATERIALS



16. OTHER INFORMATION

Additional Information:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Disclaimer:

NOTICE TO READER:

Ingredient Depot, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Ingredient Depot Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Ingredient Depot makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Ingredient Depot control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

*****END OF MSDS*****