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MATERIAL SAFETY DATA SHEET

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SECTION I. PRODUCT IDENTIFICATION

CHEMICAL NAME: Hydriodic Acid, Potassium Salt
COMMON NAME: Potassium Iodide
PRODUCT NAME: Potassium Iodide
CAS NUMBER: 7681-11-0
FORMULA: KI
MOLECULAR WEIGHT: 166.01
PRODUCT USE: Source of iodine in iodized salts

SECTION II. HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS No.	%	OSHA PEL	ACGIH TLV-TWA
Potassium Iodide	Potassium Iodide	7681-11-0	100	N/A	N/A

Iodide salts are eye, skin and mucous membrane irritants and skin sensitizers.

CERCLA RATINGS (SCALE 0-3): Health=2 Fire=0 Reactivity=0 Persistence=0
NFPA RATINGS (SCALE 0-4): Health=2 Fire=0 Reactivity=0

SECTION III. PHYSICAL DATA

Boiling Point, (760mm Hg.)	1330 deg.C.	Specific Gravity (Water=1)	3.1
Vapor Pressure (mm Hg)	N/A	% Non-Volatile	100
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Ether=1)	N/A
Solubility in Water: 127.5 g/100 g H ₂ O=1)		pH	6 to 9 (5% Sln)
Appearance: White to clear granules		Odor:	None

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point-Deg. F	N/A		
Flammable Limits Lel	N/A	Uel	N/A
Method Used:	N/A		

Extinguishing Media: Use extinguishing media as appropriate for surrounding fire conditions.

Special Fire Fighting Procedures: No acute hazard; avoid breathing vapors or dust; wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None

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Hazardous Decomposition Products: Fire conditions may liberate fumes of iodine, hydrogen iodide and oxides of potassium.

SECTION V. REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Protect from moisture and sunlight.

Incompatibility: Oxidizers, acids, diazonium salts, metals, bromine
(Materials to Avoid) and chlorine trifluorides and perchlorates,
2-diisopropyl peroxydicarbonate.

Can Hazardous Polymerization Occur: Not known to occur.

Hazardous Decomposition Products and Conditions:
Oxidization may liberate fumes of iodine, hydrogen iodide and oxides of potassium.

SECTION VI. HEALTH AND HAZARD DATA

Oral Toxicity: Oral LD50 mouse 1862/mg/kg on dry (100% KI) basis

Dermal Toxicity: May cause irritation. May cause sensitization in persons previously exposed.

Eye: May cause irritation, pain, reddening.

Inhalation: Inhalation of dust may cause mucus membrane and lung irritation.

Chronic Toxicity: Chronic exposure may cause thyroid adenoma, goiter, iodism, skin rashes, headaches, running nose, weakness, anemic and general depression.

Mutagenesis: (RTECS, 1982) mutation and reproductive effects cited. The use of iodides for asthma in pregnancy has caused fetal death and deformity. Chronic feeding to female animals effects fertility and reproduction.

Effects of Overexposure:

Ingestion: Ingestion of large amounts may cause angioneurotic edema, cutaneous and mucosal hemorrhage, fever or lymph node enlargement.

Skin Contact: May cause irritation to sensitive skin. Other data not available.

Eye Contact: May cause irritation and burning. Other data not available.

Inhalation: Inhalation of the dust may be irritating.

Acute Systemic Effects: Iodide salts act principally as expectorants/
diuretics when ingested or inhaled and may be
corrosive to the skin and eyes.

Chronic Systemic Effects: Chronic exposure may cause thyroid adenoma,
goiter, iodism, skin rashes, headaches,
running nose, weakness, anemic and general
depression.

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Wash eyes immediately with large amounts of water, occa-
sionally lifting upper and lower lids until no evidence of
chemical remains (15-20 Min.). Get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash affected area
with mild detergent and large amounts of water until no
evidence of chemicals remains. Get medical attention if
needed.

Inhalation: Remove from exposure area to fresh air immediately. If
breathing has stopped, give artificial respiration. Keep
affected persons warm and at rest. Get medical attention.

Ingestion: If victim is conscious, immediately give 2 to 4 glasses of
water and induce vomiting by touching fingers to back of
throat.

SECTION VII. PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES

Response to Small Spills: Sweep up and place in suitable (e.g. plastic)
container. Wash spill area.

Response to Large Spills: Avoid generating dust. Contain spillage so as
to prevent contamination of waters or soils.
Sweep up and place in suitable (e.g. plastic,
poly lined) drum.

Hazards to be Avoided: Avoid breathing dust or other bodily contact.

Reportable Quantity: N/A

Waste Classification: Non-hazardous

Disposal Methods: Recycle or dispose in a chemical landfill in
accordance with all local, state or federal
regulations.

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LABELING INFORMATION

DOT Shipping Name: Potassium Iodide
 DOT Label: Chemical N.O.S.
 UN No.: N/A

SECTION VIII. CONTROL MEASURESSPECIAL PROTECTION INFORMATION

Respiratory Protection: High efficiency particulate respirator necessary.

For Hands, Body: Wear appropriate protective gloves and garments to prevent bodily contact.

For Eyes: Wear splash-proof or dust resistant safety goggles to prevent contact with this substance.

Ventilation: Provide local exhaust or general dilution ventilation.

SPECIAL PRECAUTIONS

Other Precautions: Protect from sunlight or moisture. Store in original container secure from children, pets or livestock.

REGULATORY STATUS

POTASSIUM IODIDE (CAS No.: 7681-11-0): Not Listed for SARA Section 302 EHS RQ: Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

POTASSIUM IODIDE (CAS No.: 7681-11-0): Not Listed for SARA Section 302 EHS TPQ: Threshold Planning Quantity of Extremely Hazardous Substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micro-meters, the Threshold Planning Quantity = 10,000 LBS.

POTASSIUM IODIDE (CAS No.: 7681-11-0): Not Listed for SARA Section 313 Chemicals: Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

POTASSIUM IODIDE (CAS No.: 7681-11-0): Not Listed for CERCLA Sec. 103: Comprehensive Environmental Response, Compensation and Liability Act (Superfund). Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4.

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POTASSIUM IODIDE (CAS No.: 7681-11-0): Not Listed for RCRA: Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33.

POTASSIUM IODIDE (CAS No.: 7681-11-0): Listed for TSCA, Flag XU. TSCA: Toxic Substances Control Act. Requirement to submit a premanufacturing notice before commencing to manufacture or import a new substance. Flag XU means a substance is exempt from reporting under the Inventory Update Rule.

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