


Section 1: Identification

Common Name/Trade Name	POTASSIUM IODIDE USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Skin corrosion/irritation (Category 2), Serious eye damage/eye irritation (Category 2B), Reproductive Toxicity (Category 2), STOT-Single Exposure (Category 3) May cause respiratory irritation, STOT-Repeated exposure (Category 2) May cause damage to organs, Thyroid through prolonged or repeated exposure.	
Signal Word	Warning	
Hazard Statement(s)	H315 H320 H335 H361 H373	Causes skin irritation Causes eye irritation May cause respiratory irritation Suspected of damaging fertility or the unborn child May cause damage to organs through prolonged or repeated exposure
Pictogram(s)		
Precautionary Statement(s)	P264 P280 P301+P310 P302+P352 P304+P341+P313 P305+P351+P338 P330 P362	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. IF ON SKIN Wash with soap and water. IF INHALED If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Rinse mouth. Take off contaminated clothing and wash before reuse.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Potassium Iodide
Common Name	Potassium Iodide
CAS Number	7681-11-0
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	No further data available.
If Inhaled	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen. Get medical advice/attention.
In Case of Skin Contact	Avoid breathing dusts. Do not get into eyes, on skin or on clothing. Causes skin irritation. Causes burning lesions or cuts if present on skin. If on skin, remove/take off immediately, all contaminated clothing. Rinse skin with water/shower. Wash hands thoroughly after handling.
In Case of Eye Contact	Causes eye irritation. May cause damage to organs through prolonged or repeated exposure. If in eyes, flush with copious amounts of water for 30 minutes, occasionally lifting the upper and lower lids. Get medical advice/attention.
If Swallowed	Ingestion may irritate the gastrointestinal tract. If swallowed, immediately call a poison center or doctor/physician.
Most Important Symptoms and Effects	Chronic exposure of iodides may produce "iodism", which maybe manifested by skin rash, running nose, headache and irritation of the mucous membranes. Weakness, anemia loss of weight and general depression may also occur. Aggravation of Pre-existing Conditions: Trigger and/or worsen hyperthyroidism and hypothyroidism then cause temporary or even permanent thyroid conditions.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use dry chemical, CO2 or water spray.
Special Hazards Arising From the Substance/Mixture	Noncombustible. Fire may produce toxic or irritating gases or fumes of Iodine.
Special PPE and/or Precautions for Firefighters	Wear full protective clothing and NIOSH approved SCBA apparatus with a full-face respirator.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Evacuation: See the table of initial isolation and Protective Action Distances from the Emergency Response Guidebook, ERG # 153.
Methods and Materials Used for Containment	Ventilate area of leak and spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate source of spill if possible. Contain and recover solid when possible. Collect in an appropriate container or absorb with an inert material, i.e, vermiculite, dry sand earth, and place in a chemical waste drum. Do not use combustible materials, such as sawdust. Do not flush to sewer!
Cleanup Procedures	In the event of a Hazardous Materials Incident during transportation, the regulations in 49CFR 171.15 and 171.16 are to be followed. Under 40CFR 302.6 (CERCLA), Potassium Iodide does not have a RQ.

Section 7: Handling and Storage

Precautions for Safe Handling	Store in UN-rated fiber or HDPE drum and an inner polyethylene liner. Store in a cool, dry, well-ventilated area away from incompatible substances, direct sunlight or elevated temperatures. Keep containers tightly closed using a tamper-evident seal. Protect against physical damage. Shower and dispose of outer clothing and change to clean garments at the end of the day. Wash hands before eating and do not eat, drink or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues.
Conditions for Safe Storage	Store in UN-rated fiber or HDPE drum and an inner polyethylene liner. Store in a cool, dry, well-ventilated area away from incompatible substances, direct sunlight or elevated temperatures. Keep containers tightly closed using a tamper-evident seal. Protect against physical damage. Shower and dispose of outer clothing and change to clean garments at the end of the day. Wash hands before eating and do not eat, drink or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Not Established
Appropriate Engineering Controls	Use appropriate and MACT engineering controls to reduce air contamination and dust to approved or permissible standards. Where such systems are not effective or not feasible, wear suitable personal protective equipment, which performs satisfactorily and meets local/national standards.
PPE - Eye/Face Protection	Avoid eye and skin contact with dusts. Eye contact cant be avoided by wearing a full-face shield or safety glasses with side and brow protection. Refer to OSHA's 29 CFR 1910.133 Eye and Face Protection Standard for regulatory compliance.
PPE - Skin Protection	Proper protective gloves should be worn when handling hazardous materials. Glove selection guides should be consulted. Rubber, Nitrile, PVC coated, Neoprene, Vinyl or Butyl gloves offer proper protection. It is recommended to wear full skin protection. This can be achieved by wearing breathable chemical suits, Teflon impregnated, with hoods and elastic bands for the wrists and ankles.
PPE - Body Protection	Proper protective gloves should be worn when handling hazardous materials. Glove selection guides should be consulted. Rubber, Nitrile, PVC coated, Neoprene, Vinyl or Butyl gloves offer proper protection. It is recommended to wear full skin protection. This can be achieved by wearing breathable chemical suits, Teflon impregnated, with hoods and elastic bands for the wrists and ankles.
PPE - Respiratory Protection	Always use a NIOSH approved, at minimum, P95 filtration efficiency respirator or, NIOSH P100 cartridge for a full-face respirator. Observe the manufacturer's cartridge service-life and the recommended change schedule. Refer to OSHA's 29 CFR 1910.134 Respiratory Protection Program for regulatory compliance is the use of these respirators.

Section 9: Physical and Chemical Properties

Appearance	White crystalline solid
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Slight
Vapor Pressure	Not Applicable.
Odor Threshold	No data available
Vapor Density	Not Applicable.
pH	6 - 8 in a saturated solution
Relative Density	Bulk Density: 3.123 g/cm ³
Melting Point/Freezing Point	681 °C
Solubility	140 g/100mL (20C) : 206 g/100 mL (100C).
Initial Boiling Point and Boiling Range	Not Applicable
Flash Point	No data available
Evaporation Rate	Not Applicable.
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under ambient temperatures and pressure, but will yellow as a result of oxidation by the formation of free iodine.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Violent reaction or ignition on contact with diazonium salts.
Hazardous Decomposition Products	Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD Lo orl-mus 1,862 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	Skin Irritation Category 2. LD Lo ipr-mus 1,117 mg/kg
Acute Toxicity - Eye	Eye Irritation Category 2B.
Skin Corrosion/Irritation	Skin-rabbit Result: Irritating to skin.
Serious Eye Damage/Irritation	Eye Irritation Category 2B
Respiratory or Skin Sensitization	Skin Sensitization Negative
Germ Cell Mutagenicity	This substance has not been fully investigated to provide any information.
Carcinogenicity IARC	No data available. This substance has not been fully investigated to provide any information.
Carcinogenicity ACGIH	No data available. This substance has not been fully investigated to provide any information.
Carcinogenicity NTP	No data available. This substance has not been fully investigated to provide any information.
Carcinogenicity OSHA	No data available. This substance has not been fully investigated to provide any information.
Reproductive Toxicity	Experimental teratogenic and reproductive effects
Specific Target Organ Toxicity - Single Exposure	No data available. This substance has not been fully investigated to provide any information.
Specific Target Organ Toxicity - Repeated Exposure	No data available. This substance has not been fully investigated to provide any information.
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Terrestrial Fate: This substance has not been fully investigated to provide any information. Aquatic Fate: This substance has not been fully investigated to provide any information.
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose of in a manner consistent with federal, state and local regulations. This material is not listed as an Underlying Hazardous Constituent (UHC). The Hazardous Waste Characteristic of Toxicity has not been performed on this compound using the TCLP Method 1311. Recover and Recycling of Iodides is standard practice in the manufacturing industry. Refer to your manufacturer/recycler for additional information.
Waste Treatment Methods Packaging	No data available.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

OSHA: This material is not considered a Highly Hazardous Chemical and has no established Permissible Exposure Limit (PEL). EPA: Clean Air Act-This material is not listed as a Hazardous Air Pollutant (HAP). This material does not contain any Class 1 or 2 Ozone Depletors. Clean Water Act-This material is not listed as a Hazardous Substance, Priority Pollutant or as a Toxic Pollutant. TSCA-CAS# 7681-11-0 is listed on the Public Inventory. SARA Title III-Section 302: RQ= Not Applicable. Section 302: This product does not have a Threshold Planning Quantity (TPQ) Section 313: This material subject to reporting under 40 CFR Part 372, Toxic Release Inventory. Individual Country Lists: This material can be found on the following country listings: Australia (AICS), Canada (WHMIS), EU (REACH), Japan (ENCS), Korea (ECL), Philippines (PICCS), New Zealand (NZIoC), SWISS (Giftliste 1), Taiwan (BSMI). European Priority Lists Information (Council Regulation (EEC) 793/93): This chemical substance is not listed in a priority list. Classification and Labeling Information: This chemical substance is not classified in the Annex I of Directive 67/548/EEC. IUCLID & OECD Chemical Data Sheets and Export Files Information: Not available for this substance. European Risk Assessment Information (Council Regulation (EEC) 793/93): Not available for this substance. EU: EINECS# 231-659-4. State Regulations: Each State and LEPC may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore the user should consult state and local authorities.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
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