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SAFETY DATA SHEET

ection 1	Chemical Product and	Company Information

ward's science+	5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660
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CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.

POTASSIUM IODIDE, 0.1 MOLAR SOLUTION Product Synonyms Potassium Iodide, Aqueous Solution Section 2 **Hazards Identification** This substance or mixture has not been classified as hazardous according Precautionary statement: to the Globally Harmonized System (GHS) of Classification and Labeling of P261: Avoid breathing mist/vapours/spray. Chemicals. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. Signal word: WARNING P302+P352: IF ON SKIN: Wash with plenty of water and soap. Pictograms: GHS07 P333+P313: If skin irritation or rash occurs: Get medical attention. Target organs: Thyroid P312: Call a POISON CENTER or doctor if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. GHS Classification: Acute toxicity, oral (Category 5) Skin sensitization (Category 1A) GHS Label information: Hazard statement: H303: May be harmful if swallowed. H317: May cause an allergic skin reaction.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Water Potassium iodide		7732-18-5 7681-11-0	98.34% 1.66%	231-791-2 231-659-4		
Section 4	First Aid Measures					

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with strong oxidizers may cause fire or explosion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure Controls / Personal Protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	Particulates not otherwise classified	None established	TWA: 15 ppm total dust	None established	

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9	Physical & Chemical Prop	erties					
Appearance: Clear, colorless liquid. E Odor: No odor. E Odor threshold: Data not available. E pH: Data not available. No Melting / Freezing point: Approximately 0°C (32°F) (water) No Boiling point: Approximately 100°C (212°F) (water) F		Evaporation rate (Water = 1): <1			coefficient: Data n ion temperature: sition temperature Data not available formula: Mixture weight: Mixture	Data not available 2: Data not available.	
Section 10	Stability & Reactivity				1		
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Protect from light, air, moisture and excessive temperatures which cause evaporation. Incompatible materials: Reacts violently with alkaline metals, diazonium salts, oxidants, bromine and chlorine trifluorides, and fluorine perchlorate, and may cause explosi and/or fire. NOTE: Solutions of this product are corrosive to most metals.						ate, and may cause explosion	
Hazardous decomp	osition products: Yields iodine	when in contact	with air. Releases io	dine, potassium mono	oxide, and hyd	drogen iodide, whe	n in contact with moist air.
Section 11	Toxicological Information						
Skin corrosion/irrit: Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No componen Reproductive toxic STOT-single expose STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May caus Ingestion: Large dos Skin: May cause mil Eyes: Can be irritatii Signs and symptom	Acute toxicity: Oral-rat LD50: 4800 mg/kg [Potassium iodide] Skin corrosion/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: May cause irritation of respiratory tract. Ingestion: Large doses may cause gastrointestinal upset and weakness. Skin: May cause mild irritation and redness on prolonged contact. Eyes: Can be irritating with redness and pain. Signs and symptoms of exposure: Hypothyroidism with possibility of goitre (hypertrophy of the throid 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						
Section 12	Ecological Information						
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal Considerations These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.							
Section 14	Transport Information						
UN/NA number: Hazard class: No Exceptions: Not Section 15 A chemical is considered	ot applicable Pack		ot applicable Not applicable	Reportable Qua	ntity: No	Mar	ine pollutant: No
Compone		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Potassium iodide		Listed	Not listed	Not listed	Listed	Not listed	D2A
Section 16	Additional Information						

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.