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Section I - Product Identification

Product: Lugol's iodine is an aqueous solution of lodine and potassium iodide.

Intended Uses: An in-vitro diagnostic reagent that is also used as a general laboratory reagent.

Uses advised against: Not intended to be used as an antiseptic.

Manufacturer Identification Medical Chemical Corp.

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Customer Service: Phone (310)787-6800 Email. Christinaavena@med-chem.com FAX (310)787-4464



Emergency Telephone Number

CHEMTREC Emergency Response Telephone Number: (800)424-9300. Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section II - Hazard Identification

This item is considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Can cause skin burns and eye damage on contact.

Corrosive to metals: Category 1 (H290). May be corrosive to metals. Acute toxicity (Oral): Category 4 (H302). Harmful if swallowed. Skin corrosion/irritation/irritation: Category 2 (H315). Causes skin irritation. Eye damage/eye Irritation: Category 2A (H319). Causes serious eye irritation. Specific target organ toxicity, single exposure; Category 3 (H335). May cause respiratory Irritation.

Signal word: Warning

Hazard Statements: May cause skin and eye irritation. Harmful if swallowed.

Precautionary statements

- P102 Keep out of reach of children.
- P220 Keep away from clothing and other combustible materials.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P281 Use personal protective equipment as required.

Safety Ratings

Health: Hazardous *Flammability:* None *Reactivity:* Slight *Contact:* Slight *Recommended safety equipment:* safety goggles, lab coat and proper gloves are recommended as part of good laboratory practice.

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 1

Potential Health Effects

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other dilute lodine solutions.

Inhalation: May be Irritating to respiratory tract.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc

Skin contact: Irritating and corrosive.

Eye contact: Irritating and corrosive.

Chronic Exposure: Repeated or prolonged contact with skin will cause ulceration.

Section III - Composition/Information on Components

Ingredient	CAS#	EC/List No.	% w/w
Iodine	7553-56-2	231-442-4	4.6% w/w
Potassium Iodide	7681-11-0	231-659-4	9% w/w

Section IV - First Aid Measures

Inhalation: Remove from source of exposure and get immediate medical attention.

Ingestion: Rinse mouth with water but do not induce vomiting. Get immediate medical attention.

Skin Contact: Wash affected area with soap and water. Get medical advice if needed.

Eye Contact: Remove contact lenses if possible and rinse well with water. Get medical attention.

Section V - Fire Fighting Measures

Flash point: Not applicable.

Flammable Limits: Not applicable.

Fire: Not normally a fire hazard.

Explosion: Not normally an explosion hazard.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Pyrolysis will release corrosive lodine vapor.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent and store in a suitable container for disposal.

Section VII - Handling and Storage

P403+P233+P102; Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children. lodine is light sensitive.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Iodine	0.1 ppm	0.1 ppm STEL Ceiling	2 ppm	
Potassium Iodide	Not Applicable	Not Applicable	Not Applicable	

Legend

ACGIH: American Conference of Governmental Industrial Hygienists. **OSHA**: Occupational Safety and Health Administration. **NIOSH**: National Institute for Occupational Safety and Health. **IDLH**: Immediately dangerous to life or health.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are required as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are recommended as part of good laboratory practices

Section IX - Physical and Chemical Properties

Section X - Stability and Reactivity

Stability: lodine solutions are light sensitive.

Hazardous Decomposition Products: No known hazardous decomposition products.

Hazardous polymerization: Will not occur.

Incompatibilities: lodine solutions are strong oxidizers and react with many organic compounds.

Conditions to avoid: Heat and light.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Iodine	315 mg/kg (Rat)	1425 mg/kg (Rabbit)	4.588 mg/L 4h (Rat)	
Potassium Iodide	285 mg/kg No Data		No Data	

Cancer lists

IodineNoNoNo3Potassium lodideNoNoNoNone	Ingredient	Known Carcinogenicity?	NTP?	Anticipated?	IARC Category
Potassium lodide No No No None	lodine	No	No	No	3
	Potassium lodide	No	No	No	None

Section XII - Ecological Information

This product is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The product biodegrades quickly and does not contain endocrine disrupters, persistent organic pollutants or ozone depleters.

Soil Mobility: Unknown Environmental Fate: Biodegradable

Environmental Fate. Biodegradable

Environmental Toxicity: The product has low environmental toxicity

Component	Freshwater Fish	Water Flea	Freshwater algae	
Iodine	LC50 1.7 mg/l 96 h	EC50 0.55 mg/L 48 h	EC50 0.13 mg/l 72 h	
Potassium Iodide	LC50 2190 mg/l 96 h	No Information	No Information	

Section XIII - Disposal Considerations

Not normally restricted but ultimate authority resides with local government agencies. Insure compliance with all government regulations

Section XIV - Transportation Information

Not regulated by DOT or IATA.

Section XV - Regulatory Information

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Chemical Inventory Status							
Ingredient	TSCA		EC				
lodine Potassium lodide	Yes Yes		Yes Yes				
Federal and State Regulations							
Ingredient	SARA RQ	302 TPQ	SARA List	313 Category	RCRA 261.33	TSCA 8(D)	<u>Ca. Prop 65</u>
lodine Potassium lodide	No No	No No	No No	No No	No No	No No	No No
Chemical Weapons Co	onventior	n: No	TSCA 1	2(b): No 0	CDTA: No		

Section XVI - Other Information

This information is believed to be correct at the time of publication but is not guaranteed as such, nor does it purport to be all inclusive. Medical Chemical Corp. assumes no liability for the accuracy or completeness of the information. The user assumes all responsibility for compliance with federal, state and local laws.

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