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## Section I - Product Identification

*Product:* An aqueous solution of Iodine and potassium iodide.

*Intended Uses:* An in-vitro diagnostic reagent used for gram staining. Also used as a general laboratory reagent.

*Uses advised against:* Not an antiseptic.

### Manufacturer Identification

Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501

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 not considered hazardous by 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Serious eye damage/eye irritation:** Category 2A (H319). Causes serious eye irritation.

**Acute toxicity (Oral):** Category 4 (H302). May be harmful if swallowed.

**Acute toxicity (Dermal):** Category 5 (H313). May be harmful in contact with skin.

**Sensitization (Skin):** Category 1 (H317). May cause an allergic skin reaction.

**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:* Slightly 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 Iodine 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:* Not normally a problem. May cause skin irritation or aggravation of existing dermatitis.

*Eye contact:* May be irritating.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown.

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### Section III - Composition/Information on Components

Ingredient	CAS #	EC/List No.	% w/w
Iodine	7553-56-2	231-442-4	0.3 - 0.5% w/w
Potassium Iodide	7681-11-0	231-659-4	0.6 - 1.0% w/w

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### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting. Aspiration into the lungs may produce death. Get immediate medical attention even if symptoms improve.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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### 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 Iodine vapor.

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### Section VI - Accidental Release Measures

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

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### Section VII - Handling and Storage

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

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### 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

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#### 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 not required but may be used as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practices

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## Section IX - Physical and Chemical Properties

Boiling Point: 100 °C

Vapor Pressure (mm Hg): 18 @ 20 °C

Vapor Density (air = 1): 0.6

Appearance and Odor: An opaque purple solution with an acrid odor.

Density: About 1.01 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

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## Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: No known hazardous decomposition products.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Heat and light.

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## 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

Ingredient	Known Carcinogenicity?	NTP?	Anticipated?	IARC Category
Iodine	No	No	No	3
Potassium Iodide	No	No	No	None

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## 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 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

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## Section XIII - Disposal Considerations

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

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## Section XIV - Transportation Information

Not regulated by DOT or IATA.

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## Section XV - Regulatory Information

### Chemical Inventory Status

Ingredient	TSCA	EC
Iodine	Yes	Yes
Potassium Iodide	Yes	Yes

## Federal and State Regulations

<i>Ingredient</i>	<i>SARA 302</i>		<i>SARA 313</i>		<i>RCRA</i>	<i>TSCA</i>	<i>Ca. Prop 65</i>
	<i>RQ</i>	<i>TPQ</i>	<i>List</i>	<i>Category</i>	<i>261.33</i>	<i>8(D)</i>	
Iodine	No	No	No	No	No	No	No
Potassium Iodide	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: *Acute*: Yes, *Chronic*: No, *Fire*: No, *Pressure*: No

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## 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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