MEDICAL CHEMICAL CORPORATION
SINCE 1954

SDS for 10% Povidone Iodine (Stabilized Gram's Iodine) Catalog # 605A

Creation date: 05-01-2015 **Revision date: 11-15-2023** **Revision number: 1.25**

Section I - Product Identification

Product: An aqueous solution of povidone iodine.

Intended Uses: An in-vitro diagnostic reagent used for gram staining. It is also used as a general laboratory reagent.

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

Manufacturer Identification

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

Customer Service: Phone (310)787-6800
Email. Customerservice@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). The substance is a widely used topical antiseptic and it has been only very rarely associated with any adverse effects during its normal use.

Eye damage/eye Irritation: Category 2 (H319). Cause serious eye irritation.
Acute toxicity (Oral): Category 4 (H302). Harmful if swallowed.
Acute toxicity (Dermal): Category 4 (H312). Harmful in contact with skin.
Skin corrosion/irritation: Category 3 (H316). Causes mild skin irritation.

Signal word: Warning

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

Precautionary Statements

P102 Keep out of the reach of children.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264+P265 Wash thoroughly after handling. Do not touch eyes.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P281 Use personal protective equipment as requiredP305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P333+P317: If skin irritation or rash occurs: Get medical help.

P361+P364: Remove all contaminated clothing and wash it before reuse.

P410+P403: Protect from sunlight. Store in a well-ventilated place.

P501: Dispose of contents/container in compliance with all federal, state and local regulations.

Safety Ratings

Health: Slightly Hazardous *Flammability:* None *Reactivity*: Unstable if heated *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: Repeated or prolonged skin contact may cause dermatitis or aggravation of existing dermatitis.

Eye contact: May cause serious eye irritation.

Chronic Exposure: Unknown.

Aggravation of preexisting conditions: Unknown.

Section III - Composition/Information on Components

Ingredient	CAS #	EC/List No.	%
Povidone Iodine	25655-41-8	607-771-8	5%-15% w/w

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: Unlikely to be an issue. 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.

Section V - Fire Fighting Measures

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.

Section VI - Accidental Release Measures

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

Section VII - Handling and Storage

P410+P403+P233+P102; Store in a well-ventilated place protected from light. Keep container tightly closed. Keep out of reach of children. Iodine is light sensitive.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH	NIOSH IDLH
Povidone Iodine	Not Established	Not Established	Not Established	Not Established

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

Section IX - Physical and Chemical Properties

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

Flash point: Not applicable.
Flammable Limits: Not applicable.

Auto ignition temperature: No data
Boiling point range: No data

Boiling Point: 207 °F (97 °C)
Density: 1.03 g/ml @ 22.5 °C

Decomposition temperature: No data
Melting point: No data
pH: ~4
Vapor pressure (mm Hg): 40 @ 20 °C
Viscosity: No data
Evaporation Rate (water = 1): 1
Partition coefficient (*n*-Octanol/Water): No data
Solubility: Miscible with water
Vapor density (air = 1): 0.6
Volatile organic carbon (VOC): Not applicable

Section X - Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Decomposition Products: Decomposes to form elemental Iodine.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Heat and light.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Povidone Iodine	8100 mg/kg (Rat)	> 2500 mg/kg (Rat)	Not Available

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
Povidone Iodine	No	No	No	None

Section XII - Ecological Information

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

Soil Mobility: Unknown
Environmental Fate: Biodegradable

Environmental Toxicity: H401 Hazardous to the aquatic environment, acute hazard (Category 2)

Povidone Iodine

Toxicity to freshwater fish (golden orfe):LC50 = 5 mg/l, 96 h
Toxicity to invertebrates (water flea): EC50 = 3 mg/l, 48 h
Toxicity to freshwater algae (green algae): EC50 = 5 mg/l, 72 h

Section XIII - Disposal Considerations

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

Section XIV - Transportation Information

Not regulated by DOT or IATA.

Section XV - Regulatory Information

Chemical Inventory Status

Ingredient	*TSCA*	*EC*
Povidone Iodine	Yes	Yes

Federal and State Regulations

Ingredient	*SARA 302 RQ*	*SARA 302 TPQ*	*SARA 313 List*	*SARA 313 Category*	*RCRA 261.33*	*TSCA 8(D)*	*Ca. Prop 65*
Povidone Iodine	No	No	No	No	No	No	No

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

SARA 311/312

Acute:	Yes
Chronic:	Yes
Fire:	No
Pressure:	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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