MEDICAL CHEMICAL CORPORATION
SINCE 1954

SDS for Hydrogen Peroxide, 3% w/v
Catalog # 1202E

Creation date: 05-01-2015 **Revision date: 08-27-2024** **Revision number: 1.05**

Section I - Product Identification

Product: An aqueous solution of Hydrogen peroxide.

Intended Uses: A mild disinfecting solution intended to be used for antisepsis. Also used as a general laboratory reagent.

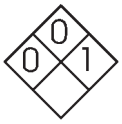
Uses advised against: Not recommended for disinfection of deep puncture wounds.

Country of origin: United States.

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).

Acute toxicity (Oral): Category 5 (H303). May be harmful if swallowed.
Acute toxicity (Dermal): Category 5 (H313). May be harmful in contact with skin.
Eye damage/eye Irritation: Category 2B (H320). May cause eye irritation.

The manufacturer is unaware of any serious health hazard associated with this product. The product may cause skin or eye irritation and may be harmful if swallowed. May be corrosive to metals.

Precautionary Statements

P102 Keep out of reach of children.
P103 Read label before use.
P270 Do not eat, drink or smoke when using this product.

Safety Ratings

Health: None *Flammability:* None *Reactivity*: Unstable if heated *Contact:* Slight
Recommended safety equipment: Not normally required.
Storage: General storage

NFPA Ratings

Health = 0.Not hazardous
Flammability = 0. Non-flammable
Reactivity = 1. Normally stable but high temperatures make unstable

Potential Health Effects

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

Section III - Composition/Information on Components

Ingredient	CAS#	EC / List No.	%
Hydrogen peroxide	7722-84-1	231-765-0	3% w/w

Also contains trace amounts of a preservative.

Section IV - First Aid Measures

Inhalation: Unlikely to be an issue. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: Unlikely to be an issue. Get medical advise for exceptional cases.

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 elemental oxygen.

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. Peroxides are light sensitive.

Section VIII - Exposure Control/Personal Protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide	1 ppm TWA (air)	1 ppm TWA (air)	75 ppm

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 are recommended 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

Appearance and Odor: A clear, colorless and odorless solution.

Flash point: Not applicable.
Auto ignition temperature: Not applicable
Boiling point range: 99 - 101 °C
Decomposition temperature: No data
Melting point: 0.0 °C
pH: ~ 7
Vapor pressure (mm Hg): 18 @ 20 °C
Viscosity: ~ 0.01 poise

Flammable Limits: Not applicable.
Boiling Point: 100 °C (212 °F)
Density: 1.0 g/ml @ 25 °C
Evaporation Rate (Water = 1): 1
Partition coefficient (*n*-Octanol/Water): No data
Solubility: Infinitely 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. Elevated temperatures will release elemental oxygen.

Hazardous Decomposition Products: Hydrogen peroxide decomposes to release elemental oxygen.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Nothing unusual.

Section XI - Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide	77 mg/kg (Rat)	>2500 mg/kg (Rat)	0.28 - 0.39 mg/l/4h (Rat)

The product is non-toxic by ingestion or inhalation.

Cancer lists

Ingredient	*Known Carcinogenicity?*	*NTP?*	*Anticipated?*	*IARC Category*
Hydrogen peroxide	No	No	No	3

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
Hydrogen peroxide	No data	No data	No data

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

Chemical Inventory Status

Ingredient	*TSCA*	*EC*
Hydrogen peroxide	Yes	Yes

Federal, State and International Regulations

Ingredient	*SARA 302*		*SARA 313*		*RCRA*	*TSCA*	
	RQ	*TPQ*	*List*	*Category*	*261.33*	*8(D)*	*Ca. Prop 65*
Hydrogen peroxide	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

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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