



# Safety Data Sheet

## Hydrogen Peroxide

### Section 1. Identification

Product Identifier	Hydrogen Peroxide		
Synonyms	HDX10; HDX11; MDS098001H; MDS098001Z; MDS098002; MDS098014; MDS098015; MSD_SDS0052		
Manufacturer Stock Numbers	HDX10; HDX11; MDS098001H; MDS098001Z; MDS098002; MDS098014; MDS098015		
Recommended use	First aid to help prevent risk of infection in minor cuts, scratches and burns; Aids in the removal of phlegm, mucous or other oral secretions associated with occasional sore mouth. First aid antiseptic: apply a small amount of product on affected area 1 to 3 times daily. Oral rinse: mix with an equal amount of water and swish around mouth up to 4 times daily.		
Uses advised against	N/A		
Manufacturer Contact Address	Medline 3 Lakes Drive Northfield, IL, 60093 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436
	Website		
	<a href="http://www.Medline.com">www.Medline.com</a>		

### Section 2. Hazards Identification

Classification	SERIOUS EYE DAMAGE /EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B
Signal Word	Danger

Pictogram



Hazard Statements

Causes serious eye damage  
Causes severe skin burns and eye damage

Precautionary Statements

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If swallowed: Rinse mouth. Do NOT induce vomiting. Stay at rest. Immediately call a poison center/doctor.  
Wash contaminated clothing before reuse.

Prevention

Do not breathe mist/vapors/spray.  
Wash thoroughly after handling.  
Wear protective gloves/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulations.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
7722-84-1	Hydrogen peroxide	1% - 10%

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-Aid Measures

General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye Contact:

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion:** If swallowed do NOT induce vomiting and obtain immediate medical attention.

**Most important symptoms and effects, both acute and delayed:** **Overview:** Inhalation of vapors and mists irritate the nose and throat. Minimally irritating to the eyes and mildly irritating to the skin. See section 2 for further details.

**Eyes:** Causes serious eye damage.

**Skin:** Causes severe skin burns and eye damage.

## Section 5. Fire Fighting Measures

**Suitable Extinguishing Media** Flood with water spray or water fog.

**Unsuitable Extinguishing Media** N/A

**Special hazards arising from the substance or mixture:** Hazardous decomposition: Oxygen, which supports combustion. Do not breathe mist/vapors/spray.

**Advice for fire-fighters:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Put on appropriate personal protective equipment (see section 8).

**Environmental precautions:** Biodegradable, non-hazardous to environment. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**Methods and material for containment and cleaning up:** Flush with water: wear rubber boots, rubber apron and goggles.

## Section 7. Handling and Storage

**Precautions for safe handling:** See section 2 for further details.

**Conditions for safe storage, including any incompatibilities:** Handle containers carefully to prevent damage and spillage. Incompatible materials: Reducing agents, combustible materials. Store in a cool, dark place. Avoid extreme heat. See section 2 for further details.

**Specific End use(s):** No data available.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m3	N/A
Personal Protective Equipment	Goggles, Gloves			
Respiratory Protection:	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.			
Eye Protection:	Protective goggles if desired.			
Skin Protection:	Rubber or vinyl gloves.			
Engineering Controls:	N.A.			
Other Work Practices:	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.			

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear, Colorless
Odor	Odorless
Odor Threshold	N.A.
Solubility	Complete
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	1.1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	N.A.
FP Method	N.A.
pH	N.A.
Melting Point	N.A.
Boiling Point	212°F/ 100°C
Boiling Range	N.A.
LEL	N/A
UEL	N/A
Evaporation Rate	> 1
Flammability	N.A.
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	23 mmHg
Vapor Density	N.A.

## Section 10. Stability and Reactivity

Reactivity:	Hazardous Polymerization will not occur.
Chemical Stability:	Stable under normal circumstances.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Extreme heat and contamination.
Incompatible materials:	Reducing agents, combustible materials.
Hazardous decomposition products:	Oxygen, which supports combustion.

## Section 11. Toxicological Information

Acute toxicity:	Hydrogen peroxide - CAS No. 7722-84-1 Oral LD50: 801.00 mg/kg, Rat Skin LD50: 2,000.00 mg/kg, Rat Inhalation: Vapor LD50: 2.00 mg/L/4hr, Rat Inhalation: Dust/Mist LD50: No data available Inhalation: Gas LD50: No data available
Acute Toxicity: Oral	N.A.
Acute Toxicity: Dermal	N.A.
Acute Toxicity: Inhalation	N.A.
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory sensitization:	N.A.
Skin sensitization:	N.A.
Germ cell mutagenicity:	N.A.
Carcinogenicity:	N.A.
Reproductive toxicity:	N.A.
Specific Target Organ Toxicity - Single exposure:	N.A.
Specific Target Organ Toxicity - Repeated exposure:	N.A.
Aspiration hazard:	N.A.

## Section 12. Ecological Information

Toxicity:	No additional information provided for this product. See section 3 for chemical specific data.
Aquatic Ecotoxicity:	Hydrogen peroxide - CAS No. 7722-84-1 LC50 fish: 22.00 mg/l, ( <i>Oncorhynchus mykiss</i> ) 96 hr EC50 crustacea: 2.32 mg/l, ( <i>Daphnia magna</i> ) 48 hr ErC50 algae: 0.71 mg/l, ( <i>Microcystis pulverea</i> ssp. <i>incerta</i> ) 72 hr

Persistence and degradability: There is no data available on the preparation itself.  
Bioaccumulative potential: Not measured.  
Mobility in soil: No data available.  
Results of PBT and vPvB Assessment: This product contains no PBT/vPvB chemicals.  
Other adverse effects: No data available.

### Section 13. Disposal

Waste treatment methods: Observe all federal, state and local regulations when disposing of this substance.

### Section 14. Transport Information

UN Number N/A  
UN Proper Shipping Name Not Regulated  
DOT Classification Not Regulated  
Packing Group Not Regulated

### Section 15. Regulatory Information

SARA 311/312: Refer to Section 2 of the SDS.  
SARA 302: Hydrogen Peroxide.  
SARA 304: Hydrogen Peroxide.  
SARA 313: N.A.  
TSCA: All components are listed or exempt.  
CERCLA Hazardous Substance List: N.A.  
Clean Air Act (CAA) Section 112, 112 (r): N.A.  
New Jersey Right to Know Components: HYDROGEN PEROXIDE.  
Pennsylvania Right to Know Components: HYDROGEN PEROXIDE.  
Massachusetts Right to Know Components: HYDROGEN PEROXIDE.

### Section 16. Other Information

Revision Date 1/11/2023  
Legend N.A. - Not Applicable  
N.E. - Not Established  
N.D. - Not Determined

**Additional Information:**

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