



Safety Data Sheet

HYDROGEN PEROXIDE

Section 1. Identification

Product Identifier	HYDROGEN PEROXIDE		
Synonyms	MDS098001Z ; MDS098001H ; HDX10; HDX11; MDS098014; MDS098002; MDS098015 ; MSD_SDS0052		
Manufacturer Stock Numbers	MDS098001H ; MDS098001Z ; HDX10; HDX11; MDS098014; MDS098002; MDS098015		
Recommended use	First Aid Antiseptic, Oral Debriding Agent		
Uses advised against	Use only as directed.		
Manufacturer Contact Address	Medline Industries, Inc. 3 Lakes Drive Northfield, IL, 60093 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436
	Website www.Medline.com		

Section 2. Hazards Identification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification	SERIOUS EYE DAMAGE /EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2
Signal Word	Danger

Pictogram



Hazard Statements Causes serious eye damage
Causes skin irritation

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 on skin: Wash with plenty of water.
If skin irritation occurs: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
Immediately call a poison center/doctor.
Specific treatment (see supplemental first aid instructions on this label)
Take off contaminated clothing and wash it before reuse.

Prevention Wash face, hands and any exposed skin thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage Storage: None

Disposal Disposal: None

Hazards not otherwise classified: Not applicable.

Unknown toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Other information: Harmful to aquatic life with long lasting effects.

Interactions with Other Chemicals: No information available.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7732-18-5	Water	50% - 100%
7722-84-1	Hydrogen peroxide (H ₂ O ₂)	0 - 10%

* The exact percentage (concentration) of composition has been withheld as a trade secret.

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

Section 4. First-Aid Measures

General Advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
Skin Contact:	In the case of skin irritation or allergic reactions, wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Inhalation:	Remove to fresh air. Get medical attention immediately if symptoms occur.
Ingestion:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).
Most important symptoms and effects, both acute and delayed:	<p>Most Important Symptoms and Effects: Burning sensation.</p> <p>Indication of any immediate medical attention and special treatment needed: Notes to Physician: Treat symptomatically.</p>

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical:	No information available.
Uniform Fire Code:	Irritant: Liquid
Hazardous combustion products:	Carbon oxides.
Explosion data:	<p>Sensitivity to Mechanical Impact: No Sensitivity to Static Discharge: No</p>
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>Personal Precautions: Avoid contact with eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required.</p> <p>Other information: Refer to protective measures listed in Sections 7 and 8.</p>
Environmental Precautions:	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning up: Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Section 7. Handling and Storage

Precautions for Safe Handling:

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities:

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible Products: Strong acids. Strong oxidizing agents. Strong bases.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Water	N/A	N/A	N/A
	Hydrogen peroxide (H2O2)	TWA: 1 ppm	TWA: 1 ppm (vacated) TWA: 1.4 mg/m3 (vacated) TWA: 1.4 mg/m3	N/A

Personal Protective Equipment

Goggles, Gloves

Control parameters:

Exposure Guidellines: There is no exposure data pertaining to the product. This section reflects exposure data pertaining to individual ingredients.
ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines:

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters.

Appropriate Engineering Controls:

Engineering Measures:
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment:

Eye/Face Protection: Tightly sealing safety goggles.

Skin and Body Protection: Wear protective gloves and clothing. Long sleeved clothing. Impervious

gloves.

Respiratory Protection:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink, or smoke when using this product.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear, Colorless liquid
Odor	Ozone-like to odorless
Odor Threshold	No information available
Solubility	Miscible in water
Partition coefficient Water/n-octanol	No data available
VOC%	N/A
Viscosity	No data available
Specific Gravity	No data available
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	No data available
FP Method	No data available
pH	4.5
Melting Point	No data available
Boiling Point	No data available
Boiling Range	No data available
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	No data available

Decomposition Temperature	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available

Section 10. Stability and Reactivity

	When used in accordance with the directions.
Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None known based on information supplied.
Incompatibility (Materials to Avoid):	Strong acids. Strong oxidizing agents.
Incompatibility (Materials to avoid):	Strong bases.
Hazardous Decomposition or Byproducts:	Carbon oxides.

Section 11. Toxicological Information

Information on likely routes of exposure:	Product information:
	Eye contact: Specific test data for the substance or mixture is not available.
	Skin contact: Specific test data for the substance or mixture is not available.
	Inhalation: Specific test data for the substance or mixture is not available.
	Ingestion: Specific test data for the substance or mixture is not available.
Component Information:	Chemical name:
	Hydrogen Peroxide (Stabilized) 3% CAS-No. 7722-84-1
	Oral LD50: = 801 mg/kg (Rat)
	Dermal LD50: = 4060 mg/kg (Rat)
	Inhalation LC50: = 2 g/m ³ (Rat) 4 h
	Purified Water CAS-No. 7732-18-5

	Oral LD50: > 90mL/kg (Rat)
	Dermal LD50: -
	Inhalation LC50: -
Information on Toxicological Effects:	Symptoms: May cause skin redness. May cause redness and tearing of the eyes. May cause blindness. Burning.
Delayed-immediate effects, also chronic effects from short & long term exposure:	Sensitization: No information available.
	Mutagenic Effects: No information available.
	Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.
	Chemical Name: Hydrogen Peroxide (Stabilized) 3% CAS-No. 7722-84-1 ACGIH: A3 IARC: Group 3 NTP: - OSHA: -
	ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen
	IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans
Reproductive Toxicity:	No information available.
Specific Target Organ Toxicity - Single exposure:	No information available.
Specific Target Organ Toxicity - Repeated exposure:	No information available.
Chronic Toxicity:	No known effect based on information supplied.
Target Organ Effects:	Respiratory system. Eyes. Skin. Blood. Lungs.
Aspiration hazard:	No information available.
Numerical Measures of Toxicity:	Product information: The following values are calculated based on chapter 3.1 of the GHS document.
	ATEmix (oral): 26,700.00 mg/kg ATEmix (dermal): 66,667.00 mg/kg (ATE) ATEmix (inhalation-dust/mist): 67.00 mg/l ATEmix (inhalation-vapor): 367.00 ATEmix

Section 12. Ecological Information

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are

compatible with the conventional solid waste management practices.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulation: No information available.

Other adverse effects: No information available.

Section 13. Disposal

Waste Treatment Methods: Disposal Methods:

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging: Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes: 311

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 313: N.A.

TSCA: Components are on the TSCA inventory.

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

9/25/2017

Legend

N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

HMIS (U.S.A.): Health Hazard 3

HMIS (U.S.A.): Flammability O

HMIS (U.S.A.): Physical Hazard O

HMIS (U.S.A.): Personal Protection X

National Fire Protection Association (U.S.A): Health Hazard 1

National Fire Protection Association (U.S.A): Flammability O

National Fire Protection Association (U.S.A): Instability Hazard O

National Fire Protection Association (U.S.A): Physical and Chemical Hazards None.

Additional Information

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees