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 (800) 633-5463
Emergency Phone (800) 424-9300
Fax (847) 643-4436

Website www.Medline.com

Section 2. Hazards Identification

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

Signal Word
Danger
Section 3. Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>7722-84-1</td>
<td>Hydrogen peroxide</td>
<td>1% - 10%</td>
</tr>
</tbody>
</table>

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.

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**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.

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**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.

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**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

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>TWA: 1 ppm</td>
<td>TWA: 1 ppm</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>(vacated)</td>
<td>TWA: 1.4 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear, Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N.A.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition coefficient Water/n-octanol</td>
<td>N.D.</td>
</tr>
<tr>
<td>VOC%</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.D.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1</td>
</tr>
<tr>
<td>Density lbs/Gal</td>
<td>N/A</td>
</tr>
<tr>
<td>Pounds per Cubic Foot</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N.A.</td>
</tr>
<tr>
<td>FP Method</td>
<td>N.A.</td>
</tr>
<tr>
<td>pH</td>
<td>N.A.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N.A.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212°F/ 100°C</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>N.A.</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Flammability</td>
<td>N.A.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N.D.</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>N.D.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>23 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N.A.</td>
</tr>
</tbody>
</table>
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, (Oncorhynchus mykiss) 96 hr
EC50 crustacea: 2.32 mg/l, (Daphnia magna) 48 hr
ErC50 algae: 0.71 mg/l, (Microcystis pulvorea ssp. incerta) 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
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