

1. IDENTIFICATION

Trade Name: 4.0% Hydrogen Peroxide

Chemical Name & Synonyms: Hydrogen Peroxide 4.0%

UN/ID No: N/A

2. Hazards Identification

Classification:

Skin Corr. 1B;H314

Causes severe skin burns and eye damage.

Eye Dam. 1;H318

Causes serious eye damage

Signal Word: DANGER

Hazard Statements:

GHS – Classification

Acute toxicity - Oral N/A

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Specific target organ toxicity (one exposure) N/A

Physical Hazards

N/A

Precautionary Statements:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264 - Wash exposed skin thoroughly after handling

P280 - Wear protective gloves, eye protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%	EC No
Hydrogen Peroxide	7722-84-1	3.5-4.5%	N/A

4. First Aid Measures

General Advice: P101: If medical advice/attention is needed; have product container or label at hand

Eye Contact: H320: Causes eye irritation

Skin Contact: H313: May be harmful in contact with skin

Inhalation: H333: May be harmful if inhaled.



Ingestion: H303: May be harmful if swallowed.

Note to Physicians: Treat symptomatically.

Self-protection of the First Aider: None specific. General healthcare PPE is appropriate

5. Fire-fighting Measures

Flammable Properties: Non-flammable

Explosive Properties: N/A

Suitable Extinguishing Media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

Specific Hazards Arising from the Chemical: None known

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions: Routine PPE for any spill, no unique requirement.

Environmental Precautions: Ventilate area.

Methods for Cleaning Up: Product is water soluble and may be diluted and flushed as below described.

Other Information: None

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: None known

8. Exposure Controls / Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL
Hydrogen Peroxide	1 ppm TWA	1 ppm TWA; 1.4 mg/m ³ TWA

Exposure Guidelines N/A

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE) Wear suitable industrial protective clothing

Eye/Face Protection: Industrial Safety Glasses

Body Protection: Industrial protective clothing, neoprene/nitrile gloves when appropriate

General Hygiene Considerations: Do not eat, drink, or smoke while handling this product.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Clear liquid, no odor

pH: 4.22
Specific Gravity: 1.004
Molecular Weight: 34.01 G/Mole (as concentrate)
Water Solubility: Completely soluble
Melt/FreezePoint: 0°C / 32 °F
Boiling Point: 100 °C / 212 °F
Flammability N/A
Flash Point: N/A
Vapor density: N/A

10. Stability and Reactivity

Stability: Stable under normal conditions of use and storage
Conditions to Avoid: None known
Incompatible Materials: None known
Hazardous Decomposition Products: None known
Possibility of Hazardous Reactions: None known

11. Toxicological Information

Chemical	Oral LD50	Dermal LD50
Chronic Toxicity:	Not Classified	
Carcinogenicity:	Not Classified	
Target Organ Effects:	Not Classified	
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified

12. Ecological Information

Ecotoxicity: This product is not expected to be harmful to the environment.

Chemical Name

Toxicity to algae: EC-50 2.5 mg/L / 72 hrs
Toxicity to fish: EC-50 16.4 mg/L / 96 hrs
Toxicity to daphnia: EC-50 7.7 mg/L / 24 hrs
Persistence/Degradability: No Data
Bioaccumulation: No Data
Mobility: No Data

13. Disposal Considerations

Waste from Residues/Unused Products:

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging: Wash and rinse thoroughly before reuse / recycling

This material is not considered to be a RCRA Hazardous Waste

14. Transport information (USDOT):

Proper shipping Name: Proprietary Water Treatment Blend (Not regulated by the USDOT)

Hazard Class: Non-Hazardous

UN/ID No None

Packing Group None

Reportable Quantity (RQ) None

15. Regulatory Information

TSCA Inventory Status All ingredients are listed on the TSCA inventory.

DSCL (EEC) All ingredients are listed on the DSCL inventory.

California Proposition 65 Not Listed

SARA 302 Listed: Hydrogen Peroxide

SARA 304 Listed: Hydrogen Peroxide

SARA 311 Acute Health Hazard

SARA 312 Acute Health Hazard

SARA 313 Listed: Hydrogen Peroxide

WHMIS Canada Not Listed

National Fire Protection Association (NFPA) Ratings:



NSF Certification: N/A

16. Other Information

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.
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