

Safety Data Sheet**1. Identification**

Product Name: Hydrogen Peroxide 17%

Synonyms: Hydrogen Dioxide, Peroxide, H₂O₂

CAS Number: 7722-84-1

Manufacturer: Catalina Chemical, 4709 N. Lois Ave. Tampa, FL 33614. Phone: (813) 876-5914

Emergency Phone: ChemTel Inc: 1 (800) 255-3924

2. Hazard(s) Identification

Pictogram:



Classification of the Substance or Mixture:

- **GHS Classification:**
 - Oxidizing liquids - Category 2
 - Skin Irritation - Category 2
 - Serious Eye Damage - Category 1
 - Acute Toxicity (Inhalation) - Category 4
 - Acute Toxicity (Oral) - Category 4
- **Label Elements:**
 - **Signal Word:** Danger
 - **Hazard Statements:**
 - Causes serious eye damage.
 - May cause skin irritation.
 - Harmful if swallowed.
 - May cause respiratory irritation.
 - **Precautionary Statements:**
 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 - Wash thoroughly after handling.
 - Wear eye protection/face protection.
 - If swallowed: Rinse mouth. Do NOT induce vomiting.

3. Composition/Information on Ingredients

Chemical Name: Hydrogen Peroxide **CAS Number:** 7722-84-1 **Concentration:** 17%

Other Ingredients: Water

4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek immediate medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: None known.

Special Hazards Arising from the Substance or Mixture: Oxygen may be liberated and increase the intensity of the fire.

Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing. Evacuate area.

6. Accidental Release Measures

Personal Precautions: Wear protective equipment. Avoid breathing vapors, mist, or gas.

Environmental Precautions: Do not allow to enter drains or watercourses. Dilute with water and mop up if water-soluble.

Methods and Material for Containment and Cleaning Up: Absorb spillage with suitable absorbent material.

7. Handling and Storage

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible materials. Keep container tightly closed.

8. Exposure Controls/Personal Protection

Control Parameters:

- **Occupational Exposure Limits:**
 - ACGIH TLV: 1 ppm (ceiling)
 - OSHA PEL: 1 ppm (ceiling)

Personal Protective Equipment:

- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:** Wear chemical resistant gloves and protective clothing.
- **Respiratory Protection:** If ventilation is inadequate, use respiratory protection.

9. Physical and Chemical Properties

Appearance: Clear liquid **Color:** Colorless **Odor:** Slight **pH Value:** ~2.5 **Boiling Point:** 107.5°C (225.5°F)

Density: 1.201 g/cm³ (at 20°C)

10. Stability and Reactivity

Reactivity: Reacts violently with reducing agents, combustible materials, organic materials, metals, acids, and bases.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: May decompose violently on contact with incompatible materials.

Conditions to Avoid: Heat, flames, and incompatible materials.

11. Toxicological Information

Acute Toxicity:

- **Oral LD50:** 800 mg/kg (rat)

- **Dermal LD50:** >2000 mg/kg (rabbit)
- **Inhalation LC50:** >200 ppm (rat)

Skin Corrosion/Irritation: May cause skin irritation.

Serious Eye Damage/Irritation: Causes serious eye damage.

12. Ecological Information

Environmental Effects: Harmful to aquatic life. Do not allow to enter drains or watercourses.

Persistence and Degradability: Biodegradable.

Bioaccumulative Potential: No data available.

13. Disposal Considerations

Disposal Methods: Dispose of waste and residues in accordance with local authority requirements.

14. Transport Information

UN Number: 2984 **UN Proper Shipping Name:** Hydrogen peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)

15. Regulatory Information

Safety, Health, and Environmental Regulations:

- OSHA Hazards: Oxidizing liquid; Harmful by ingestion; Irritant to skin and eyes.
- EPA Regulations: Not listed.

16. Other Information

This Safety Data Sheet (SDS) is prepared in compliance with the Global Harmonized System (GHS) of Classification and Labeling of Chemicals.

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