

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Hydrogen Peroxide 10% Technical Grade

**Synonyms:** hydrogen peroxide

**CAS Number:** 7722-84-1

**Grade/Purity:** Technical Grade

**Product Type:** Bases

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

H271	May cause fire or explosion; strong oxidizer
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**Precautionary Statements:**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves, protective clothing, eye and face protection.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Hydrogen Peroxide	10	10	7722-84-1	231-765-0	H <sub>2</sub> O <sub>2</sub>	34.015 g/mol
Water	90	90	7732-18-5	231-791-2	H <sub>2</sub> O	18.02 g/mol

#### 4. FIRST-AID MEASURES

<b>Eyes</b>	EYES: First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop.
<b>Skin</b>	SKIN: IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. IMMEDIATELY call a hospital or poison control center even if no symptoms (such as redness or irritation) develop. IMMEDIATELY transport the victim to a hospital for treatment after washing the affected areas.
<b>Inhalation</b>	INHALATION: IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing.
<b>Ingestion</b>	INGESTION: DO NOT INDUCE VOMITING. Corrosive chemicals will destroy the membranes of the mouth, throat, and esophagus and, in addition, have a high risk of being aspirated into the victim's lungs during vomiting which increases the medical problems. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. IMMEDIATELY transport the victim to a hospital. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. Transport the victim IMMEDIATELY to a hospital. (NTP, 1992)

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Media</b>	Water spray or fog in large quantities. Do NOT use dry chemical or CO <sub>2</sub> .
<b>Unsuitable Media</b>	Do not use dry chemical, CO <sub>2</sub> , or foam.
<b>Protective Equipment</b>	Wear self-contained breathing apparatus and full protective clothing.
<b>Combustion Products</b>	May include carbon oxides and other toxic fumes. See Section 10.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental</b>	Prevent leakage or spillage from entering drains, sewers, or waterways.
<b>Containment &amp; Cleanup</b>	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

#### 7. HANDLING AND STORAGE

<b>Safe Handling</b>	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
<b>Safe Storage</b>	Store in a cool, dry, well-ventilated area away from combustible materials and heat. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

AGENCY	EXPOSURE LIMIT
OSHA PEL	1 ppm TWA
NIOSH REL	1 ppm TWA
IDLH	75 ppm

<b>Eyes</b>	Wear chemical safety goggles or face shield.
<b>Skin</b>	Wear chemical-resistant gloves and protective clothing.
<b>Inhalation</b>	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	Characteristic
<b>Median Particle Size</b>	Not Applicable
<b>Particle Size Distribution</b>	Not Applicable
<b>Particle Shape</b>	Not Applicable
<b>Surface Area</b>	Not Applicable
<b>Dustiness</b>	Not Applicable
<b>Hygroscopicity</b>	Not Applicable
<b>pH</b>	Not Available
<b>Melting Point</b>	-0.43°C (31.2°F)
<b>Boiling Point</b>	150°C (302°F)
<b>Flash Point</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Specific Gravity</b>	1.03
<b>Solubility</b>	Soluble in water
<b>Molecular Formula</b>	H <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight</b>	34.015 g/mol

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Reactions</b>	None under normal processing conditions.
<b>Conditions to Avoid</b>	Heat, sparks, open flame, and incompatible materials.
<b>Incompatible Materials</b>	Combustible materials, reducing agents, organic materials.
<b>Decomposition Products</b>	May produce carbon oxides and other toxic fumes when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

<b>IARC</b>	Not listed as carcinogen.
<b>NTP</b>	Not listed as carcinogen.
<b>OSHA</b>	Not listed as carcinogen.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Data not available. Avoid release to the environment.
<b>Persistence</b>	Not Available
<b>Bioaccumulation</b>	Not Available
<b>Mobility in Soil</b>	Not Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

<b>US DOT</b>	UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III
<b>IMDG</b>	UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III
<b>IATA/ICAO</b>	UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III
<b>Marine Pollutant</b>	No

## 15. REGULATORY INFORMATION

**Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.**

<b>SARA 311/312</b>	See Section 2 for hazard classifications.
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## 16. OTHER INFORMATION

**Revision Date:** 05/28/2026

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