

### 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 [Danger Oxidizing liquids; Oxidizing solids] |
| H302 | Harmful if swallowed [Warning Acute toxicity, oral]                                       |
| H314 | Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]                |
| H332 | Harmful if inhaled [Warning Acute toxicity, inhalation]                                   |

**Precautionary Statements:**

|       |  |
|-------|--|
| P210, | P220, P260, P261, P264, P270, P271, P280, P283, P301+P317, P301+P330+P331, P302+P361+P354, P304+P340, P305+P354+P338, P306+P360, P316, P317, P321, P330, P363, P370+P378, P371+P380+P375, P405, P420, and P501 |
|-------|--|

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT         | WEIGHT % | CAS #     | EINECS# / ELINCS# | FORMULA                       | MOLECULAR WEIGHT |
|-------------------|----------|-----------|-------------------|-------------------------------|------------------|
| Hydrogen Peroxide | 10%      | 7722-84-1 | 231-765-0         | H <sub>2</sub> O <sub>2</sub> | 34.015 g/mol     |
| Water             | 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:**

No established occupational exposure limits.

|                   |   |
|-------------------|---|
| <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. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                   |                               |
|-------------------|-------------------------------|
| Appearance        | Clear, colorless liquid       |
| Odor              | Characteristic                |
| pH                | Not Available                 |
| Melting Point     | -0.43°C (31.2°F)              |
| Boiling Point     | 150°C (302°F)                 |
| Flash Point       | Not Available                 |
| Vapor Pressure    | Not Available                 |
| Specific Gravity  | 1.03                          |
| Solubility        | Soluble in water              |
| Molecular Formula | H <sub>2</sub> O <sub>2</sub> |
| Molecular Weight  | 34.015 g/mol                  |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

|      |                           |
|------|---------------------------|
| IARC | Not listed as carcinogen. |
| NTP  | Not listed as carcinogen. |
| OSHA | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                  |   |
|------------------|---|
| Ecotoxicity      | Data not available. Avoid release to the environment. |
| Persistence      | Not Available   |
| Bioaccumulation  | Not Available   |
| Mobility in Soil | 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

|                  |  |
|------------------|--|
| US DOT           | UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III |
| IMDG             | UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III |
| IATA/ICAO        | UN2984, Hydrogen peroxide, aqueous solution, 5.1, PG III |
| Marine Pollutant | No   |

## 15. REGULATORY INFORMATION

|                           |  |
|---------------------------|--|
| <b>TSCA Inventory</b>     | All ingredients are listed on the TSCA Active inventory.         |
| <b>California Prop 65</b> | Refer to California Proposition 65 list for current status.      |
| <b>SARA 311/312</b>       | See Section 2 for hazard classifications.                        |
| <b>SARA 313</b>           | Refer to EPA Toxic Release Inventory for current listing status. |

## 16. OTHER INFORMATION

**Revision Date:** 04/27/2026

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