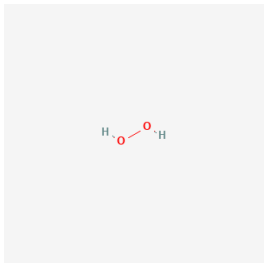


# Hydrogen Peroxide

## 25% Technical Grade

Technical Grade · 25%

GHS Revision  
Rev. 9 (2021)Reviewed  
2026-07-17Emergency  
Chemtel 1-800-255-3924 (24/7)

|                                                                                                                                                                            |                                          |                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------|
| CAS number<br><b>7722-84-1</b>                                                                                                                                             | UN number<br><b>UN2014</b>               | Hazard class ·<br>packing group<br><b>5.1 · PG II</b> |
| <br>Structure · PubChem                                                                  | Grade<br>Technical Grade ·<br><b>25%</b> | Signal word<br><b>Danger</b>                          |
| Hazards<br><div><div>Oxidizer</div><div>Corrosive</div><div>Irritant / harmful</div></div> H272 H302 H314 H332 H335                                                        |                                          |                                                       |
| Proper shipping name<br><b>Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)</b> |                                          |                                                       |
| Hydrogen Peroxide 25% Technical Grade is regulated for transport under DOT 49 CFR — see the shipping classification below.                                                 |                                          |                                                       |

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## 1 Identification

|                    |                                                                |
|--------------------|----------------------------------------------------------------|
| Product Identifier | Hydrogen Peroxide 25% Technical Grade                          |
| Grade              | Technical Grade                                                |
| Concentration      | 25%                                                            |
| CAS Number         | 7722-84-1                                                      |
| Chemical Formula   | H2O2                                                           |
| Manufacturer       | Alliance Chemical<br>204 South Edmond Street, Taylor, TX 76574 |
| Emergency Phone    | Chemtel 1-800-255-3924 (24/7)                                  |
| Recommended Use    | Industrial / laboratory chemical. See Section 7.               |

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## 2 Hazard Identification



Oxidizer



Corrosive



Irritant /  
harmful

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word              | <b>Danger</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hazard Statements        | <b>H272</b> May intensify fire; oxidiser<br><b>H302</b> Harmful if swallowed<br><b>H314</b> Causes severe skin burns and eye damage<br><b>H332</b> Harmful if inhaled<br><b>H335</b> May cause respiratory irritation                                                                                                                                                                                                                                                                                                             |
| Precautionary Statements | <b>P210</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br><b>P220</b> Keep away from clothing and other combustible materials.<br><b>P260</b> Do not breathe dust, fume, gas, mist, vapours or spray.<br><b>P261</b> Avoid breathing dust, fume, gas, mist, vapours or spray.<br><b>P264</b> Wash hands and face thoroughly after handling.<br><b>P270</b> Do not eat, drink or smoke when using this product.<br><b>P271</b> Use only outdoors or in a well-ventilated area. |

**P280** Wear protective gloves, protective clothing, and eye/face protection.

**P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**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.

**P312** Call a POISON CENTER or doctor if you feel unwell.

**P321** Specific treatment (see first-aid information on this label).

**P330** Rinse mouth.

**P363** Wash contaminated clothing before reuse.

**P370+P378** In case of fire: Use appropriate media to extinguish.

**P403+P233** Store in a well-ventilated place. Keep container tightly closed.

**P405** Store locked up.

**P501** Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazard (H) and precautionary (P) statements and pictograms conform to GHS Rev. 9. The full classification rationale is in the downloadable SDS PDF.

### 3 Composition / Information on Ingredients

| Component                             | CAS No.   | Formula | Concentration |
|---------------------------------------|-----------|---------|---------------|
| Hydrogen Peroxide 25% Technical Grade | 7722-84-1 | H2O2    | 25% (w/w)     |

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

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## 4 First-Aid Measures

|            |                                                                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes       | Rinse with plenty of water for at least 15 minutes.<br>Remove contact lenses if present and easy to do.<br>Continue rinsing. Seek medical attention immediately.                       |
| Skin       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.                                |
| Inhalation | Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| Ingestion  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.                             |

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## 5 Fire-Fighting Measures

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Suitable Extinguishing Media   | Water spray or fog in large quantities. Do NOT use dry chemical or CO <sub>2</sub> . |
| Unsuitable Extinguishing Media | Do not use dry chemical, CO <sub>2</sub> , or foam.                                  |
| Protective Equipment           | Wear self-contained breathing apparatus and full protective clothing.                |
| Hazardous Combustion Products  | Oxygen, which may intensify fire.                                                    |

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## 6 Accidental Release Measures

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Personal Precautions      | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental Precautions | Prevent leakage or spillage from entering drains, sewers, or waterways.                           |
| Containment & Cleanup     | Absorb with inert material. Collect in appropriate                                                |

waste container. Dispose per applicable regulations.

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## 7 Handling and Storage

|               |                                                                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.<br>Keep container closed when not in use.                        |
| Safe Storage  | 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. |

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## 8 Exposure Controls / Personal Protection

### Occupational Exposure Limits

| Limit     | Value     |
|-----------|-----------|
| OSHA PEL  | 1 ppm TWA |
| NIOSH REL | 1 ppm TWA |
| IDLH      | 75 ppm    |

|                               |                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Controls</b>   | Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.                                                                                                    |
| <b>Eye/Face Protection</b>    | Wear chemical safety goggles or face shield.                                                                                                                                                               |
| <b>Skin Protection</b>        | Wear chemical-resistant gloves and protective clothing.                                                                                                                                                    |
| <b>Respiratory Protection</b> | Use a NIOSH-approved respirator (N95/P100 for particulate, organic vapor or acid gas cartridge as appropriate to the substance) when exposure limits may be exceeded or visible mist or dust is generated. |

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 & Chemical Properties

|                                                     |                                                                 |
|-----------------------------------------------------|-----------------------------------------------------------------|
| <b>Appearance</b>                                   | Clear, colorless liquid                                         |
| <b>Odor</b>                                         | ... Slightly sharp odor ...                                     |
| <b>Odor Threshold</b>                               | No data available                                               |
| <b>pH</b>                                           | 3 - 4                                                           |
| <b>Melting Point / Freezing Point</b>               | -33 to -23 °C (-27 to -9 °F), freezing point (aqueous solution) |
| <b>Boiling Point</b>                                | 104 to 108 °C (219 to 226 °F) (aqueous solution)                |
| <b>Flash Point</b>                                  | No data available                                               |
| <b>Evaporation Rate</b>                             | No data available                                               |
| <b>Flammability (solid, gas)</b>                    | No data available                                               |
| <b>Upper/Lower Flammability or Explosive Limits</b> | No data available                                               |
| <b>Vapor Pressure</b>                               | 1 mmHg at 59.5 °F (NTP, 1992)                                   |
| <b>Vapor Density</b>                                | No data available                                               |
| <b>Relative Density</b>                             | 1.084 - 1.094                                                   |
| <b>Solubility</b>                                   | greater than or equal to 100 mg/mL at 72 °F (NTP, 1992)         |
| <b>Partition Coefficient (n-octanol/water)</b>      | No data available                                               |
| <b>Auto-ignition Temperature</b>                    | No data available                                               |
| <b>Decomposition Temperature</b>                    | No data available                                               |
| <b>Viscosity</b>                                    | No data available                                               |

|                          |                                        |
|--------------------------|----------------------------------------|
| Particle Characteristics | Not applicable                         |
| Form                     | Liquid                                 |
| Density                  | 1.09 (25% w/w aqueous solution, 20 °C) |

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

## 10 Stability and Reactivity

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| Chemical Stability                 | Stable under recommended storage conditions.               |
| Possibility of 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. |
| Hazardous Decomposition Products   | Oxygen, which may intensify fire.                          |

## 11 Toxicological Information

See Section 2 for GHS hazard classification.

### Carcinogen Classification

| Agency | Status |
|--------|--------|
|--------|--------|

|      |                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------|
| IARC | Group 3 — not classifiable as to its carcinogenicity to humans (Hydrogen peroxide; IARC agent: Hydrogen peroxide, Vol. 36, Sup 7, 71). |
|------|----------------------------------------------------------------------------------------------------------------------------------------|

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

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

## 12 Ecological Information

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| Ecotoxicity                 | Data not available. Avoid release to the environment. |
| Persistence & Degradability | Not Available                                         |

|                           |               |
|---------------------------|---------------|
| Bioaccumulative Potential | 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 (49 CFR)

|                         |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| UN Number               | UN2014                                                                                                                                      |
| Proper Shipping Name    | Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary) |
| Hazard Class            | 5.1                                                                                                                                         |
| Subsidiary Hazard Class | 8                                                                                                                                           |
| Packing Group           | II                                                                                                                                          |

IMDG / IATA classifications may differ. Refer to the downloadable SDS PDF for international transport details. Verify current regulations before international shipment.

## 15 Regulatory Information

| Inventory / List             | Status     |
|------------------------------|------------|
| California Proposition 65    | Not listed |
| US EPA TSCA Active Inventory | Listed     |
| EPCRA SARA 313 (TRI)         | Not listed |

## 16 Other Information

|               |                                                                            |
|---------------|----------------------------------------------------------------------------|
| Revision Date | 2026-07-17                                                                 |
| GHS Format    | GHS Rev. 9 (2021), 16-section format per OSHA HCS 2024 (29 CFR 1910.1200). |

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