



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Hydrogen Peroxide, 10% (v/v) (Approx. 3% by weight), unstabilized Technical Grade

**Product Number** 3821.2

**Other Identifying Product Numbers** 3821.2-55

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company

**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

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### SECTION 2: Hazard(s) Identification

#### 2.1. Classification of the Substance or Mixture

| Hazard Class                        | Category   | Hazard Statements | Precautionary Statements                     |
|-------------------------------------|------------|-------------------|----------------------------------------------|
| Skin Corrosion / Irritation         | Category 2 | H315              | P264,P280,P302+P352,P321,P332+P313,P362+P364 |
| Serious Eye Damage / Eye Irritation | Category 1 | H318              | P280,P305+P351+P338,P310                     |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

| Hazard Number | Hazard Statement          |
|---------------|---------------------------|
| H315          | Causes skin irritation    |
| H318          | Causes serious eye damage |

Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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### Prevention

| Precautionary Number | Precautionary Statement                               |
|----------------------|-------------------------------------------------------|
| P264                 | Wash hands, arms, and face thoroughly after handling. |
| P280                 | Wear protective gloves and eye protection.            |

### Response

| Precautionary Number | Precautionary Statement                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302+P352            | IF ON SKIN: Wash with plenty of 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.                                                                                      |
| P332+P313            | If skin irritation occurs: Get medical advice or attention.                                                                      |
| P362+P364            | Take off contaminated clothing and wash it before reuse.                                                                         |

### 2.3. Hazards not Otherwise Classified

No other hazards identified.

### 2.4. Ingredients of Unknown Acute Toxicity

This product does not contain any ingredients of unknown acute toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

| Chemical Name (IUPAC) | Common Name and Synonyms              | CAS Number | Weight% |
|-----------------------|---------------------------------------|------------|---------|
| water                 | Water                                 | 7732-18-5  | 96.23   |
| hydrogen peroxide     | Hydrogen Peroxide; Dihydrogen dioxide | 7722-84-1  | 3.77    |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.

**Ingestion:** Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

**Inhalation:** Not expected to require first aid. If necessary, remove to fresh air.

**Skin Contact:** IF ON SKIN: Wash with plenty of water. May cause irritation and bleaching of the hair and skin.

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## 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes skin irritation May cause slight irritation to the skin and eyes. Wash areas of contact with water. Does not present any significant health hazards. Not intended for medicinal use. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation and bleaching of the hair and skin.

## 4.3. Immediate Medical Attention or Special Treatment Needed

Immediately call a poison center or doctor. Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire. Non-combustible. Do not use dry chemicals.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Contents may explode in fire. Flammable Hydrogen gas may be formed in fire.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## SECTION 6: Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Cover spill with a 1:1:1 mixture of Sodium Carbonate, clay cat litter and sand. Scoop up, then transfer to hood. Slowly add to a pail of cold water. Gradually add to an excess of aqueous Sodium Metabisulfite solution. Decant liquid to the drain. Treat the solid as normal refuse. Always comply with local, state, and federal regulations.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Keep protected from light. Contact with metals, dust, or organic materials accelerates decomposition. Refrigeration will help with stability of this product.

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### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Exposure Limits

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

| Chemical Name     | CAS Number | Exposure Limit           |
|-------------------|------------|--------------------------|
| Hydrogen Peroxide | 7722-84-1  | 1 ppm TWA; 1.4 mg/m3 TWA |

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

##### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

##### U.S. OSHA - Specifically Regulated Chemicals

No limits found.

##### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

##### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

No limits found.

##### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name     | CAS Number | Exposure Limit |
|-------------------|------------|----------------|
| Hydrogen Peroxide | 7722-84-1  | 1 ppm TWA      |

#### 8.2. Engineering Controls

No specific controls are needed. Normal room ventilation is adequate.

#### 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

|                                                   |                     |
|---------------------------------------------------|---------------------|
| <b>Physical State:</b>                            | liquid              |
| <b>Color:</b>                                     | Colorless           |
| <b>Odor:</b>                                      | Data not available. |
| <b>Odor Threshold:</b>                            | Data not available. |
| <b>Melting/Freezing Point:</b>                    | Approximately 0°C   |
| <b>Boiling Point/Range:</b>                       | Approximately 100°C |
| <b>Flammability:</b>                              | Data not available. |
| <b>Flammability/Explosive Limits:</b>             | Data not available. |
| <b>Flash Point:</b>                               | Not flammable       |
| <b>Auto-Ignition Temperature:</b>                 | Data not available. |
| <b>Decomposition Temperature:</b>                 | Data not available. |
| <b>pH:</b>                                        | Data not available. |
| <b>Kinematic Viscosity:</b>                       | Data not available. |
| <b>Solubility:</b>                                | miscible            |
| <b>Vapor Pressure:</b>                            | Data not available. |
| <b>Evaporation Rate:</b>                          | Data not available. |
| <b>Relative Density:</b>                          | 1.01                |
| <b>Relative Vapor Density:</b>                    | Data not available. |
| <b>Particle Characteristics:</b>                  | Data not available. |
| <b>Partition Coefficient n-octanol/water, log</b> | Data not available. |

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Alkalies, Ammonia and their Carbonates, Albumin, Phenol, Charcoal, Chlorides, Alkali Citrates, Ferrous, Mercurous or Gold salts, Hypophosphites, Iodides, Lime water, Permanganates, Sulfites, Tinctures and organic matter in general.

### 10.4. Hazardous Decomposition Products

Will not occur.

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### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity - Oral Exposure:

Not acutely toxic.

| Chemical Name     | CAS Number | Toxicity                                   |
|-------------------|------------|--------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Oral LD50 Rat 1518 mg/kg (Source: NLM_CIP) |

##### Acute Toxicity - Dermal Exposure:

Not acutely toxic.

| Chemical Name     | CAS Number | Toxicity                                                                                      |
|-------------------|------------|-----------------------------------------------------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Dermal LD50 Rabbit 9200 mg/kg (test substance administered as a 70% solution, Source: EU_RAR) |

##### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

| Chemical Name     | CAS Number | Toxicity                                                           |
|-------------------|------------|--------------------------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Inhalation LC50 Acute Toxicity Estimate 11 mg/L 4 h (Source: ECHA) |

#### 11.2 Carcinogenicity:

##### International Agency for Research on Cancer (IARC)

| Chemical Name     | CAS Number | Classification                                                                           |
|-------------------|------------|------------------------------------------------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Group 3 (Not Classified) - Monograph 71 [1999]; Supplement 7 [1987]; Monograph 36 [1985] |

##### National Toxicology Program (NTP)

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
|               |            | No data found. |

##### U.S. OSHA specifically regulated carcinogens

| Chemical Name | CAS Number | Classification |
|---------------|------------|----------------|
|               |            | No data found. |

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### 11.3 Additional Toxicology Information:

Causes skin irritation. Causes serious eye damage.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name     | CAS Number | Species         | Exposure | Toxicity                                                                                                                                                                   |
|-------------------|------------|-----------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Freshwater Fish | Acute    | LC50 96 h Pimephales promelas 16.4 mg/L (IUCLID); LC50 96 h Lepomis macrochirus 18 - 56 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 10.0 - 32.0 mg/L [static] (EPA) |
| Hydrogen Peroxide | 7722-84-1  | Water Flea      | Acute    | EC50 48 h Daphnia magna 18 - 32 mg/L [Static] (EPA)                                                                                                                        |

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

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## SECTION 14: Transportation Information

### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

Not regulated according to DOT regulations.

### 14.2 Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

### 14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG regulations.

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### SECTION 15: Regulatory Information

#### 15.01. Occupational Safety and Health Administration (OSHA) Hazards

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

| Chemical Name     | CAS Number | RQ                                  | TPQ                                   |
|-------------------|------------|-------------------------------------|---------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | 1000 lb TPQ<br>(concentration >52%) | 1000 lb EPCRA RQ (concentration >52%) |

#### 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

#### 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name  | CAS Number | List |
|----------------|------------|------|
| No data found. |            |      |

#### 15.05. Massachusetts Right-to-Know Substance List

| Chemical Name     | CAS Number | Regulatory Information    |
|-------------------|------------|---------------------------|
| Hydrogen Peroxide | 7722-84-1  | Extraordinarily hazardous |

#### 15.06. Pennsylvania Right-to-Know Hazardous Substances

| Chemical Name     | CAS Number | Regulatory Information                             |
|-------------------|------------|----------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | Environmental hazard (concentration >52%); Present |

#### 15.07. New Jersey Worker and Community Right-to-Know Components

| Chemical Name     | CAS Number | Regulatory Information |
|-------------------|------------|------------------------|
| Hydrogen Peroxide | 7722-84-1  | sn 1015                |

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## 15.08. California Proposition 65

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

## 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

| Chemical Name     | CAS Number | List | Status  |
|-------------------|------------|------|---------|
| Hydrogen Peroxide | 7722-84-1  | DSL  | Present |
| Water             | 7732-18-5  | DSL  | Present |

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

| Chemical Name     | CAS Number | Status                |
|-------------------|------------|-----------------------|
| Hydrogen Peroxide | 7722-84-1  | Present (ACTIVE)      |
| Water             | 7732-18-5  | Present [XU] (ACTIVE) |

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

| Chemical Name     | CAS Number | List   | Number    |
|-------------------|------------|--------|-----------|
| Hydrogen Peroxide | 7722-84-1  | EINECS | 231-765-0 |
| Water             | 7732-18-5  | EINECS | 231-791-2 |

## 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name     | CAS Number | Status          |
|-------------------|------------|-----------------|
| Hydrogen Peroxide | 7722-84-1  | Present [14139] |
| Water             | 7732-18-5  | Present [32224] |

## 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name     | CAS Number | List    | Status             |
|-------------------|------------|---------|--------------------|
| Hydrogen Peroxide | 7722-84-1  | Annex 1 | Present [KE-20204] |
| Water             | 7732-18-5  | Annex 1 | Present [KE-35400] |

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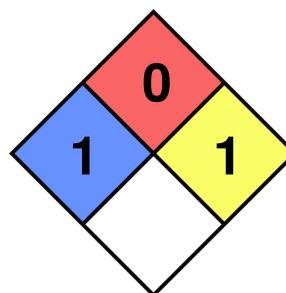
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name     | CAS Number | MITI No.                                         |
|-------------------|------------|--------------------------------------------------|
| Hydrogen Peroxide | 7722-84-1  | (1)-419                                          |
| Water             | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 1  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**  
 2026-05-24

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.