# **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Hydrogen Peroxide, 30% (w/w), ACS Reagent Grade

Product Number: 3821.7

Other Identifying Product Numbers: 3821.7-1, 3821.7-15, 3821.7-16, 3821.7-30, 3821.7-32, 3821.7-5

#### 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: 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

# 1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

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# RICCA CHEMICAL COMPANY®

# **Safety Data Sheet**

# **SECTION 2: Hazard(s) Identification**

# 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

|  |             | Hazard    |   |
|--|-------------|-----------|---|
| Hazard Class   | Category    | Statement | Precautionary Statements  |
| Acute Toxicity - Oral  | Category 4  | H302      | P264, P270, P301+P312, P330, P501   |
| Acute Toxicity - Dermal  | Category 4  | H312      | P280, P302+P352, P312, P321, P362, P501   |
| Acute Toxicity - Inhalation  | Category 2  | H330      | P260, P271, P285, P304+P340, P310, P320, P403+P233, P405, P501  |
| Skin Corrosion / Irritation  | Category 1A | H314      | P260, P264, P280, P301+P330+P331,<br>P303+P361+P353, P363, P304+P340, P310,<br>P321, P305+P351+P338, P405, P501 |
| Eye Damage / Irritation  | Category 1  | H318      | P280, P305+P351+P338, P310  |
| Reproductive Toxicity  | Category 2  | H361      | P201, P202, P280, P308+P313, P405, P501   |
| Specific Target Organs/Systemic Toxicity Following Single Exposure   | Category 1  | H370      | P260, P264, P270, P307+P311, P321, P405, P501   |
| Specific Target Organs/Systemic Toxicity Following Repeated Exposure | Category 1  | H372      | P260, P264, P270, P314, P501  |
| Oxidizing Liquids  | Category 2  | H272      | P210, P220, P221, P280, P370+P378, P501   |
| Hazardous to the Aquatic Environment (Acute)                         | Category 1  | H400      | P273, P501  |

### 2.2. GHS Label Elements

Pictograms:













Signal Word: Danger

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#### **Hazard Statements:**

| Hazard Number | Hazard Statement  |
|---------------|---|
| H272          | May intensify fire; oxidizer.                                   |
| H302          | Harmful if swallowed.   |
| H312          | Harmful in contact with skin.                                   |
| H314          | Causes severe skin burns and eye damage.                        |
| H318          | Causes serious eye damage.                                      |
| H330          | Fatal if inhaled.   |
| H361          | Suspected of damaging fertility or the unborn child.            |
| H370          | Causes damage to organs.  |
| H372          | Causes damage to organs through prolonged or repeated exposure. |
| H400          | Very toxic to aquatic life.                                     |

Product Number: 3821.7 Page 3 of 13

#### **Precautionary Statements:**

| Precautionary Number Precautionary Statement P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks and open flame. No smoking. P220 Keep away from beat, sparks and open flame. No smoking. P221 Take any precaution to avoid mixing with combustibles. P221 Take any precaution to avoid mixing with combustibles. P220 Do not breathe fumes, mist, vapors, or spray. P220 Wash arms, hands and face thoroughly after handling. P221 Use only outdoors or in a well-vernitated area. P223 Avoid release to the environment. P229 Wear protective gloves and eye protection. P229 In case of inadequate ventilation wear respiratory protection. P220 In case of inadequate ventilation wear respiratory protection. P2301+P330-P331 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P301+P330-P331 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P304-P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304-P361-P363 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305-P351-P331 IF exposed or concerned: Get medical attention. P310 Immediately call a POISON CENTER or physician. P312 Call a POISON CENTER or physician. P313 Fe posed: Call a POISON CENTER or physician. P314 Get medical attention if you feel unwell. P315 Specific treatment is urgent (Wash areas of contact with water immediately). P326 Specific treatment (Wash areas of contact with water immediately). P330 Rinse mouth. P330 Take off contaminated clothing and wash it before reuse. P370-P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Store in a well-ventilated place. Keep container tightly closed. P370-P379 To specific treatment is accordance with local, state, federal and international regulations. | Frecautionary Statements. |  |  |
|---|---------------------------|--|--|
| P202 Do not handle until all safety precautions have been read and understood.  P210 Keep away from heat, sparks and open flame. No smoking.  P220 Keep away from clothing and other combustible materials.  P221 Take any precaution to avoid mixing with combustibles.  P260 Do not breathe furnes, mist, vapors, or spray.  P261 Wash arms, hands and face thoroughly after handling.  P270 Do not eat, drink or smoke when using this product.  P271 Use only outdoors or in a well-ventilated area.  P273 Avoid release to the environment.  P280 Wear protective gloves and eye protection.  P281 In ESWALLOWED: Call a POISON CENTER or physician if you feel unwell.  P301+P312 IF SWALLOWED: inse mouth. Do NOT induce vomiting.  P302+P352 IF ON SKIN: Wash with plenty of soap and water.  P303+P361+P353 IF ON SKIN (or hain): Take off immediately all contaminated clothing. Rinse skin with water.  P304-P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P307+P311 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P311 Call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P322 Rike off contaminated clothing and wash it before reuse.  P330 Hash contaminated clothing before reuse.  P330 Vash contaminated clothing before reuse.  P330 Vash contaminated clothing before reuse.  P330 Vash contaminated place. Keep container tightly closed.  | Precautionary Number      | Precautionary Statement  |  |
| P210 Keep away from heat, sparks and open flame. No smoking. P220 Keep away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles. P260 Do not breathe fumes, mist, vapors, or spray. P264 Wash arms, hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Vise only outdoors or in a well-ventilated area. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P281 In case of inadequate ventilation wear respiratory protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P301+P330-P331 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. P307+P311 IF exposed or concerned: Get medical attention. P308+P313 IF exposed or concerned: Get medical attention. P314 Get medical attention if you feel unwell. P315 Specific treatment is urgent (Wash areas of contact with water immediately). P326 Specific treatment is urgent (Wash areas of contact with water immediately). P327 Specific treatment is urgent (Wash areas of contact with water immediately). P330 Rinse mouth. P362 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P364 Store locked up.  | P201                      | Obtain special instructions before use.  |  |
| P220 Keep away from clothing and other combustible materials.  P221 Take any precaution to avoid mixing with combustibles.  P260 Do not breathe furnes, mist, vapors, or spray.  P264 Wash arms, hands and face thoroughly after handling.  P270 Do not eat, drink or smoke when using this product.  P271 Use only outdoors or in a well-ventilated area.  P273 Avoid release to the environment.  P280 Wear protective gloves and eye protection.  P285 In case of inadequate ventilation wear respiratory protection.  P285 In Case of inadequate ventilation wear respiratory protection.  P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.  P301+P333 IF SWALLOWED: Trinse mouth. Do NOT induce vorniting.  P302+P362 IF ON SKIN: Wash with plenty of soap and water.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P311 Call a POISON CENTER or physician if you feel unwell.  P322 Specific treatment is urgent (Wash areas of contact with water immediately).  P323 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P340 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  | P202                      | Do not handle until all safety precautions have been read and understood.                    |  |
| P221 Take any precaution to avoid mixing with combustibles.  P260 Do not breathe fumes, mist, vapors, or spray.  Wash arms, hands and face thoroughly after handling.  P270 Do not eat, drink or smoke when using this product.  P271 Use only outdoors or in a well-ventilated area.  P273 Avoid release to the environment.  P280 Wear protective gloves and eye protection.  P285 In case of inadequate ventilation wear respiratory protection.  P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.  P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  P302+P352 IF ON SKIN: Wash with plenty of soap and water.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IF Exposed: Call a POISON CENTER or physician.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P311 Get medical attention if you feel unwell.  P312 Get medical attention if you feel unwell.  P313 Specific treatment (Wash areas of contact with water immediately).  P320 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P3403-P337 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403-P233 Store in a well-ventilated place. Keep container tightly closed.   | P210                      | Keep away from heat, sparks and open flame. No smoking.                                      |  |
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| P285 In case of inadequate ventilation wear respiratory protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. P307+P311 IF exposed: Call a POISON CENTER or physician. P308+P313 IF exposed or concerned: Get medical attention. P310 Immediately call a POISON CENTER or physician. P312 Call a POISON CENTER or physician if you feel unwell. P314 Get medical attention if you feel unwell. P325 Specific treatment is urgent (Wash areas of contact with water immediately). P326 Specific treatment (Wash areas of contact with water immediately). P330 Rinse mouth. P362 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed.   | P273                      | Avoid release to the environment.  |  |
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| P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  P302+P352 IF ON SKIN: Wash with plenty of soap and water.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  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.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   | P285                      | In case of inadequate ventilation wear respiratory protection.                               |  |
| P302+P352 IF ON SKIN: Wash with plenty of soap and water.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  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.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  | P301+P312                 | IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.                          |  |
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| 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.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   | P302+P352                 | IF ON SKIN: Wash with plenty of soap and 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.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P311 Call a POISON CENTER or physician if you feel unwell.  P312 Get medical attention if you feel unwell.  P313 Specific treatment is urgent (Wash areas of contact with water immediately).  P320 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  | P303+P361+P353            | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |  |
| to do. Continue rinsing.  P307+P311 IF exposed: Call a POISON CENTER or physician.  P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  | P304+P340                 | · · · · · · · · · · · · · · · · · · ·  |  |
| P307+P311 IF exposed: Call a POISON CENTER or physician. P308+P313 IF exposed or concerned: Get medical attention. P310 Immediately call a POISON CENTER or physician. P312 Call a POISON CENTER or physician if you feel unwell. P314 Get medical attention if you feel unwell. P320 Specific treatment is urgent (Wash areas of contact with water immediately). P321 Specific treatment (Wash areas of contact with water immediately). P330 Rinse mouth. P362 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.  | P305+P351+P338            |  |  |
| P308+P313 IF exposed or concerned: Get medical attention.  P310 Immediately call a POISON CENTER or physician.  P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           | ŷ  |  |
| P310 Immediately call a POISON CENTER or physician. P312 Call a POISON CENTER or physician if you feel unwell. P314 Get medical attention if you feel unwell. P320 Specific treatment is urgent (Wash areas of contact with water immediately). P321 Specific treatment (Wash areas of contact with water immediately). P330 Rinse mouth. P362 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.   |                           |  |  |
| P312 Call a POISON CENTER or physician if you feel unwell.  P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           |  |  |
| P314 Get medical attention if you feel unwell.  P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           | ·  |  |
| P320 Specific treatment is urgent (Wash areas of contact with water immediately).  P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           | ···  |  |
| P321 Specific treatment (Wash areas of contact with water immediately).  P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   |                           |  |  |
| P330 Rinse mouth.  P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           |  |  |
| P362 Take off contaminated clothing and wash it before reuse.  P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   |                           | ·  |  |
| P363 Wash contaminated clothing before reuse.  P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.  |                           |  |  |
| P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   |                           |  |  |
| P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P405 Store locked up.   |                           |  |  |
| P405 Store locked up.   |                           |  |  |
| <u>'</u>  | P403+P233                 |  |  |
| P501 Dispose of contents in accordance with local, state, federal and international regulations.  |                           | ,  |  |
|   | P501                      | Dispose of contents in accordance with local, state, federal and international regulations.  |  |

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#### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

## 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

# **SECTION 3: Composition / Information on Ingredients**

### 3.1. Components of Substance or Mixture

| Chemical Name     | Formula  | Molecular Weight | CAS Number | Weight% |
|-------------------|----------|------------------|------------|---------|
| Water             | H₂O      | 18.01 g/mol      | 7732-18-5  | 70.00%  |
| Hydrogen Peroxide | $H_2O_2$ | 34.01 g/mol      | 7722-84-1  | 30.00%  |

# **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Causes severe irritation, redness, pain, tearing and burns.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness and

pain. Corrosive destruction is possible. Exposure may bleach skin white.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with large amounts of water. Do not induce vomiting. Vomiting

may cause further damage due to the corrosive nature of this product. Call a physician.

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

CAUTION! Strong oxidizer. Reacts with a broad range of materials. Corrosive. Causes severe eye and skin burns. Respiratory irritant. Wash areas of contact with plenty of water. For eyes, get medical attention. EYE CONTACT: Causes severe irritation, redness, pain, tearing and burns. SKIN CONTACT: May cause irritation, redness and pain. Corrosive destruction is possible. Exposure may bleach skin white.

#### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Specific treatment (Wash areas of contact with water immediately).

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Chemical extinguishing agents may accelerate decomposition. Use LARGE quantities of water as fog to fight FIRES in which this material is involved.

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### 5.2. Specific Hazards Arising from the Substance or Mixture

May intensify fire; oxidizer. Vapors can flow along surfaces to distant ignition source and flashback. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire. Explosion hazard when exposed to heat, flame or oxidizers.

### 5.3. Special Protective Equipment 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. In case of inadequate ventilation wear respiratory protection.

### 6.2. Cleanup and Containment Methods and Materials

Stop or control the leak, if this can be done without undue risk. Use water spray to cool and disperse vapors and protect personnel. (aqueous solutions, stabilized (>60%))

# **SECTION 7: Handling and Storage**

# 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Empty containers may be hazardous since they retain product residues. Store at controlled room temperature: 15 - 30oC.

# **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1. Control Parameters

| Chemical Name                 | Limit Type | Country | Exposure Limit | Information Source                    |
|-------------------------------|------------|---------|----------------|---------------------------------------|
| Hydrogen Peroxide (7722-84-1) | TWA        | USA     | 1 ppm TWA      | U.S OSHA - Final PELs - Time          |
|                               |            |         | 1.4 mg/m³ TWA  | Weighted Averages (TWAs)              |
| Hydrogen Peroxide (7722-84-1) | TLV-TWA    | USA     | 1 ppm TWA      | ACGIH - Threshold Limit Values - Time |
|                               |            |         |                | Weighted Averages (TLV-TWA)           |

#### 8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. No specific controls are needed. Normal room ventilation is

adequate.

**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves, Butyl, Viton or Natural Rubber (latex).

**Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. Chemical resistant gloves, Butyl, Viton or Natural Rubber (latex). Safety glasses or goggles.

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# **SECTION 9: Physical and Chemical Properties**

# 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Slight acid odor

Odor Threshold: Data not available.

**pH:** 3.3

Melting/Freezing Point: -33°C

Initial Boiling Point /Range: 108°C - 108°C

Flash Point: Data not available.

Evaporation Rate: >1.0 (Butyl Acetate = 1)

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: 23 mm Hg at 30°C

Vapor Density: 1.10
Relative Density: 1.11

Solubility: Miscible

Partition Coefficient (n-Octanol/Water): Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: 1.25 cP

**ExplosiveProperties:** Data not available. **Oxidizing Properties:** Data not available.

# **SECTION 10: Stability and Reactivity**

# 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage. This solution gradually decomposes at room temperature, and more rapidly as the temperature increases, losing available oxygen.

## 10.2. Possibility of Hazardous Reactions

Data not available.

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### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Combustible materials, alkalis, alcohols, iodides, lime water, sulfites, permanganates, organic compounds (such as wood, oil), acids, metals. Ammonia and their Carbonates, Albumin, Phenol, Charcoal, Chlorides, Alkali Citrates, Ferrous, Mercurous or Gold salts, Hypophosphites, Limewater, Tinctures and organic matter in general.

# 10.4. Hazardous Decomposition Products

Will not occur.

# **SECTION 11: Toxicological Information**

### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Dermal Exposure:**

Harmful in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water immediately). Take off contaminated clothing and wash it before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Inhalation Exposure:**

Fatal if inhaled. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Other Information:**

LD50, Oral, Rat: (8-20% (w/w) Hydrogen Peroxide), 1518 mg/kg with behavioral effects noted.

#### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### **Respiratory Sensitization:**

Not applicable.

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#### Skin Sensitization:

Not applicable.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Specific Target Organ Toxicity from Single Exposure:**

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Aspiration Hazard:**

Not applicable.

### **Additional Toxicology Information:**

Data not available.

# **SECTION 12: Ecological Information**

#### 12.1. Ecotoxicity

Very toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

# 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.

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# **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Data not available.

# **SECTION 14: Transportation Information**

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

Sizes: 1 L, 1 L, 4 L, 4 L, 15 Gal, 20 L, 30 Gal, 500 mL, 500 mL

**UN Number:** UN2014

Proper Shipping Name: Hydrogen Peroxide, Aqueous Solutions

Hazard Class: 5.1 (8) Packing Group: ||

**Hazard Placard Labels:** 





Sizes:

**UN Number:** 

**Proper Shipping Name:** 

**Hazard Class:** 

**Packing Group:** 

**Hazard Placard Labels:** 

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

Sizes: 1 L, 1 L, 4 L, 4 L, 15 Gal, 20 L, 30 Gal, 500 mL, 500 mL

UN Number: UN2014

Proper Shipping Name: Hydrogen Peroxide, Aqueous Solution

Hazard Class: 5.1 (8)

Packing Group: ||

**Hazard Placard Labels:** 





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# **SECTION 15: Regulatory Information**

- 15.1. Occupational Safety and Health Administration (OSHA) Hazards
  Not listed.
- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances
  Hydrogen Peroxide (CAS # 7722-84-1): 1000 lb EPCRA RQ (concentration >52%)
  Hydrogen Peroxide (CAS # 7722-84-1): 1000 lb TPQ (concentration >52%)
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

  Not listed.
- 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

  Not listed.
- 15.5. Massachusetts Right-to-Know Substance List

Hydrogen Peroxide (CAS # 7722-84-1): Extraordinarily hazardous

15.6. Pennsylvania Right-to-Know Hazardous Substances

Hydrogen Peroxide (CAS # 7722-84-1): Environmental hazard (concentration >52%); Present Hydrogen Peroxide (CAS # 7722-84-1): Present (concentration >52%) Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Hydrogen Peroxide (CAS # 7722-84-1): corrosive; mutagen; reactive - third degree Hydrogen Peroxide (CAS # 7722-84-1): sn 1015 Hydrogen Peroxide (CAS # 7722-84-1): SN 1015 500 lb TPQ (>52% concentration)

15.8. California Proposition 65

Not listed.

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

Hydrogen Peroxide (CAS # 7722-84-1): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

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

Hydrogen Peroxide (CAS # 7722-84-1): Present Water (CAS # 7732-18-5): Present

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS),

European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

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# **SECTION 16: Other Information**

### 16.1. Full Text of Hazard Statements and Precautionary Statements

May intensify fire; oxidizer. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment is urgent (Wash areas of contact with water immediately). Take off contaminated clothing and wash it before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

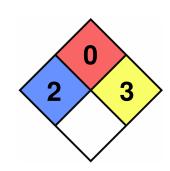
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Not Applicable.

# 16.3. National Fire Protection Association (NFPA) Rating

Health: 2
Flammability: 0
Reactivity: 3
Special Hazard:



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#### 16.4. Document Revision

Last Revision Date: 12/1/2015

# **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.

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