

MSDS

HYDROGEN PEROXIDE, 20-40% (w/w) Aqueous Solutions

## Material Safety Data Sheet

### Section 1: Chemical Product and Company Identification

<b>Catalog Number:</b> 24640, 24641, 3821.7, 3822, 3825, 3830	
<b>Product Identity:</b> HYDROGEN PEROXIDE, 20-40% (w/w) Aqueous Solutions	
<b>Manufacturer's Name:</b> RICCA CHEMICAL COMPANY LLC	<b>Emergency Contact(24 hr) -- CHEMTREC®</b> Domestic: 800-424-9300 International: 703-527-3887
<b>CAGE Code:</b> 4TCW6, 0V553, 4XZQ2	
<b>Address:</b> 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601
<b>Date Prepared:</b> 3/8/01	<b>Revision: 7</b>  Last Revised: 04/30/2014 Date Printed: 01/21/2015 12:32:15 pm

### Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Hydrogen Peroxide	7722-84-1	20 - 40% (w/w)	1 ppm 1.4 mg/m3	1 ppm 1.4 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

### Section 3: Hazard Identification

**Emergency Overview:** 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.

**Target Organs:** eyes, skin, respiratory system.

**Eye Contact:** Causes severe irritation, redness, pain, tearing and burns.

**Inhalation:** Respiratory tract irritant. Causes burns on acute contact. Symptoms may include tearing, headache, sneezing, vomiting, salivation, insomnia, tremors, nausea, pulmonary edema (which may be delayed up to 48 hours).

**Skin Contact:** May cause irritation, redness and pain. Corrosive destruction is possible. Exposure may bleach skin white.

**Ingestion:** Causes severe burns of the mouth, throat and stomach. Symptoms may include abdominal pain, nausea, bloody vomiting, stomach distension and perforation, throat swelling, thirst, excessive salivation, convulsions, coma, possible cerebral edema and death.

**Chronic Effects/Carcinogenicity:** None

**IARC** - Hydrogen Peroxide is unclassifiable as to carcinogenicity to humans. Hydrogen Peroxide is unclassifiable as to carcinogenicity to humans.

**NTP** - No.

**OSHA** - No.

**Reproductive Information:** Not Applicable.

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**Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Hydrogen Peroxide. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Hydrogen Peroxide.

### Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. Observe for 48 hours for lung effects.

**Skin Contact:** Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** 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.

### Section 5: Fire Fighting Measures

**Flash Point:** Not Available.

**Method Used:** Not Available.

**LFL:** Not Available.

**UFL:** Not Available.

**Extinguishing Media:** Use water or water spray on small fires. Do not use dry chemicals or carbon dioxide.

**Fire & Explosion Hazards:** 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.

**Fire Fighting Instructions:** Use normal procedures/instructions. Concentrations of less than 50% Hydrogen Peroxide will not usually ignite combustible material. Poisonous gases are produced in fire.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Section 6: Accidental Release Measures

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

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 - 30°C.

**Safety Storage Code:** Oxidizer

### Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

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

**Skin Protection:** Chemical resistant gloves, Butyl, Viton or Natural Rubber (latex).

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

### Section 9: Physical and Chemical Properties

**Appearance:** Clear, colorless liquid

**Odor:** acrid odor

**Solubility in Water:** Infinite

**Specific Gravity:** Approximately 1.1 - 1.2

**pH:** Not Available.

**Boiling Point(°C):** Not Available.

**Melting Point(°C):** Not Available.

**Vapor Pressure:** Not Applicable.

### Section 10: Stability and Reactivity

**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.

**Incompatibility:** 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.

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**Hazardous Decomposition Products:** Water, Oxygen, when heated to decomposition, explosion is possible due to the release of Hydrogen gas.

**Hazardous Polymerization:** Will not occur.

### Section 11. Toxicological Information

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

### Section 12. Ecological Information

**Ecotoxicological Information:** Insufficient data are available on the short and long term effects of Hydrogen Peroxide exposure to aquatic life, plants, birds or land animals.

**Chemical Fate Information:** Limited data suggest that Hydrogen Peroxide concentrated will be moderately persistent in water, with a half-life of between 2 and 20 days.

### Section 13. Disposal Considerations

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 14. Transport Information

Part Numbers: 24640 4-LT, 24640 500ML, 24640C 4-LT, 24640C 500ML, 24641 200-LT, 24641 4LT, 24641 500ML, 24641C 4-LT, 3821.7-1, 3821.7-16, 3821.7-32, 3821.7-5, 3822-1, 3822-16

D.O.T. Shipping Name: Hydrogen Peroxide, Aqueous Solutions

D.O.T. Hazard Class: 5.1 (8)

U.N. / N.A. Number: UN2014

Packing Group: II

D.O.T. Label: 5.1, 8



### Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

**OSHA Status:** These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:** Not Applicable.

**Section 311/312 Hazardous Categories:** Acute, Fire, Reactivity: Yes    Chronic, Pressure: No

**Section 313 Toxic Chemicals:** Not Applicable.

**California:** None Reported.

**Pennsylvania:** Hydrogen Peroxide is listed as a Basic Hazard on the state's Hazardous Substances List. Hydrogen Peroxide is listed as a Basic Hazard on the state's Hazardous Substances List.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** None Reported.

**WHMIS:** C: Oxidizing Material. E: Corrosive Material. F: Dangerously Reactive Material.



### Section 16. Other Information

## MSDS

## NFPA Ratings:

Health: 2

Flammability: 0

Reactivity: 3

Special Notice Key:None

## HMIS Ratings:

Health: 2

Flammability: 0

Reactivity: 3

Protective Equipment:C (Protective eyewear, gloves, apron)

Rev 1, 10-09-2001: Reformatted to electronic data format.

Rev 2, 11-15-2001: (Section 1) added catalog number 3821.7.

Rev 3, 02-12-2002: (Section 1) added catalog number 3830.

Rev 4, 11-16-2005: (Section 15) revised WHMIS information.

Rev 5, 09-28-2006: (Section 1) added Red Bird catalog numbers 24640 and 24641.

Rev 6, 05-23-2011: (Section 1) revised title from 20-60%; (Section 2) Revised concentration from 20-60% and added units of measure.

Rev 7, 04-30-2014: Reviewed and approved for distribution.

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.