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HYDROGEN PEROXIDE AQUEOUS SOLUTIONS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 3819.1, 3820.3, 3820.7, H-232, H-233, H-234, H-237, R3818000, R3820400, R3820750	
Product Identity: HYDROGEN PEROXIDE AQUEOUS SOLUTIONS	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 1/15/99	Revision: 11 Last Revised: 03/29/2010 Date Printed: 08/19/2011 11:56:11 am

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Hydrogen Peroxide	7722-84-1	2 - 7% (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: Handle this reagent with care. Avoid ingestion and contact with skin, eyes, or clothing. Avoid breathing vapor. Use with adequate ventilation. Wash areas of contact with plenty of water. For eyes, get medical attention. If ingested, give large quantity of water. Call a physician. Not intended for medicinal use.

Target Organs: eyes, skin, respiratory system.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: May cause irritation of the respiratory tract.

Skin Contact: May cause irritation and bleaching of the hair and skin.

Ingestion: May cause irritation and burning of the lips, mouth and throat, painful swallowing and nausea.

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. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

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

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

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

Fire & Explosion Hazards: Contents may explode in fire. Flammable Hydrogen gas may be formed in fire.

Fire Fighting Instructions: Move containers from fire if it can be done without risk. Remain clear of smoke. Concentration of Hydrogen Peroxide at this level will not usually ignite combustible materials. 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. Keep protected from light. Contact with metals, dust, or organic materials accelerates decomposition. Refrigeration will help with stability of this product.

Safety Storage Code: General

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.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: Odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1 - 1.04

pH: Not Available.

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Alkalis, 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.

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

Hazardous Polymerization: Will not occur.

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Section 11. Toxicological Information

No LD50 information available for this product, however, 8-20% (w/w) Hydrogen Peroxide LD50, Oral, Rat is 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:

This product is not regulated.

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: Yes Chronic, Fire, Pressure, Reactivity: 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.



Section 16. Other Information

NFPA Ratings:

Health: 1

Flammability: 0

Reactivity: 1

Special Notice Key: None

HMIS Ratings:

Health: 1

Flammability: 0

Reactivity: 1

Protective Equipment: B (Protective Eyewear, Gloves)

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Rev 1, 11-8-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300; (Section 2) revised concentration range to from 5%; (Section 7) added storage code, added statements regarding protect from light, contact information and refrigeration; (Section 15) added Florida and Pennsylvania state references.

Rev 2, 10-09-2001: Reformatted to electronic data format.

Rev 3, 12-26-2001: (Section 1) revised title, added catalog number 3820.3; (Section 2) revised concentration from 4 - 6%.

Rev 4, 08-27-2004: (Section 1) added catalog number 3820.7.

Rev 5, 10-19-2005: (Section 1) added Red Bird catalog number H-237.

Rev 6, 12-08-2005: (Section 1) added Red Bird catalog numbers H-233 and H-234; (Section 15) added WHMIS information.

Rev 7, 02-06-2006: (Section 1) added catalog number 3819.1; (Section 15) revised Section 311 hazardous categories.

Rev 8, 02-28-2007: (Section 1) added Red Bird catalog number H-232, removed catalog number 3820; (Section 3) revised overview; (Section 15) revised OSHA status.

Rev 9, 08-13-2007: (Section 1) added catalog number R3818000.

Rev 10, 08-18-2009: (Section 1) added catalog number R3820750; (Section 2) revised concentration from 2 - 6% (w/w); (Section 9) revised specific gravity range from approximately 1.

Rev 11, 03-29-2010: (Section 1) added catalog number R3820400.

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.