0304

#50304

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Material Names

Hydrogen Peroxide (3% sniution)

Other Detignations:

Hydrogen Dioxide, Peroxide

Manufacturer's Name:

Cumberland-Swan, Inc.

Manufacturer's Address:

One Swan Drive.

Telephone Number (for information);

Smyrns, TN 37167

1-615-459-8900

Telephone Number (for emergencies):

1-615-459-8900

Date Prepared:

November 1994

Section 2 - Composition / Information on Ingredients

Chemica)

Chemical Formula

7722-84-1

Hydrogon Peroxide Water

H₂O₂ O_rH

97%

Section 3 • Hazards Identification

Summary Overview of Hazards

Colorless, odorless liquid that is slightly acidic. Hydrogen peroxide in this concentration is a mild exidizer. Prolonged exposure to elevated concentrations of vapors may result in irritation of the eyes, nose and throat. Prolonged dermal exposure can result in mild skin irritation.

Potential Rautes of Exposure:

Dermal contact, eye contact, ingestion

Target Organi:

Eyes, akin, respiratory system

Symptoms of Overexposure (by route):

Inhalation:

Irritation of the eyes, nose and throat

Ingestion:

Irritation of the upper G.I. tract, possible distension of the esophagus or stomach

Dermal Contact:

Vexicles on skin, bleaching hair, general irritation of skin

Acute Effects:

Initation of akin as noted above No data

Chronic Rifects:

Medical Conditions Aggravated By

Long-Term Exposures

Pre-existing disorders of the skin may be exacerbated by exposure to hydrogen

peroxide.

Degree of Hazard (NFPA System)

- 4 Extreme
- 3 High
- 2 Moderate
- 1 Slight
- 0 Insignificant

HEALTH



REACTIVITY

SPECIAL KAZARD

50304



Material Safety Data Sheet (continued)

Section 4 - First Aid Measures

Bys Exposures

Immediately finals eyes with copious amounts of water for at least 15 minutes while

bolding syelids open. Seek immediate medical attention.

Skin Exposures

Wash with water.

Ingestions

Drink plenty of water or milk immediately to dilute. Do not induce ventiting. Seek

immediate medical attention and/or call the Poison Control Center.

Inhalation:

Remove victim to fresh air sad seek prompt medical attention.

Section 5 - Fire Fighting Measures

Extinguishing Media:

Use water fog, alcohol form, dry chemical or CO2.

Unusual Fire or Explosion Hazards: Recommended Pire-Fighting Procedures: Decomposition releases oxygen which may intensify fire (See also Section 9).

Extinguish fire using agent suitable for surrounding fire. Cool containers exposed to

fire with flooding quantities of water.

Section 6 - Accidental Release Measures

Recommended Spill / Leak Response Procedures:

Large Spills:

Evacuate the area of unprotected personnal. Utilize appropriate level of personal

protective equipment (see also Section 8). Contain source if it is safe to do so. Dike or otherwise confine spilled product. Keep away from open flams.

Small Spills:

Dilute with large amounts of water and, if possible, direct solution to diked area and hold until decomposed. Dispose in accordance with local environmental regulations.

Take up with absorbant material and place in non-leaking container, seal tightly.

Dispose of absorbent.

Section 7 - Handling and Storage

Storage Requirements:

Store in tightly closed containers in a cool, dry, well-ventilated area away from heat

and other possible ignition sources, including incompatible materials. (See also

Section 10.)

Recommended Handling Precautions:

Maintain appropriate class(cs) of fire extinguishers nearby in case of fire.

Material Safety Data Sheet (continued)

Section 8 - Exposure Controls / Personal Protection

Applicable Exposure Limits:

08:36

OSHA PEL

05/18/95

OSHA STEL

OSHA Celling

IDLH 75 ppm

1 ppm Recommended Engineering Controls:

NA Use ventilation equipment as necessary.

Recommended Administrative Controls:

Train amployees on the hazards of hydrogen peroxide.

afc.

18.5 (approx.)

Recommended Personal Protective

Recommended Hygiene Fractices:

Equipment (PPE):

West chamical goggles where the threat of exposure exists. Gloves should be worn

if the user has sensitive skin, but are otherwise nuneccesary. Eye wash fountains

should be provided for personnel in areas where eye exposure is possible.

Clean PPE and work clothing contaminated with hydrogen peroxide prior to reuse.

Section 9 - Physical and Chemical Properties

Appearance

Coloriess Havid

Freezing Point:

Anteignition Temperatures

No data

Odora

Slightly sharp

Miscible Water Solubility:

Lower Explosive Limit (LEL):

No data

Odor Threshold Vapor Pressures

No data

Molecular Weights Specific Gravity:

Upper Explosive Limit (URL):

No deta

Boiling Point:

10.1 mm 214°P

1.00 >200°F Flash Points

0.63 (approx.) Vapor Density (air = 1):

Section 10 - Stability and Reactivity

Stability:

Polymerization:

Stightly unstable Will not occur

Chamical Incompatibilities:

Hydrogan peroxide in greater concentrations is incompatible with reducing agents,

rest, dirt, organic materials.

Conditions to Avoid:

Heat, sparies, open flame, contact with incompatible materials.

Hazardous Products of Decomposition:

Decomposition releases oxygen which may intensify fire.

Section 11 - Toxicological Information

LD_m (for 90% H₂O₂);

4060 mg/kg (dermal-rat)

LC44 (for 90% H₂O₂):

2000 mg/m³ (inhelation-ret [4 hr])

LCL (for 90% H2O2):

227 ppm (inhalation - mouse)

Carcinogenicity:

Not identified as a carcinogen by OSHA, IARC, or NTP.

Mutagenicity:

Not indicated

Reproductive Effects:

Not Indicated

CSI OCEO

Material Safety Data Sheet (continued)

Section 12 - Ecological Information

Environmental Mobility:

Highly mobile

Environmental Parsistence:

Should be removed readily from solls and water.

Preshwater Acute Criteria: Freshwater Chronica Criteria: Not found

Bioconcentration Factor (BCF):

Not found

Section 13 - Disposal Considerations

RPA Waste Codes:

Not found

Recommended Disposal Mathods/Technologies:

Consult applicable state and federal regulations.

Section 14 - Transport Information

DOT Shipping Names

Non-Regulated Material (in concentrations < 8%)

DOT Packing Groups

NA

DOT Hozard Class: LD. #:

NA

DOT Label: NA

Section 15 - Regulatory Information

EPA Designations:

Hazardous Waste (RCRA):

Hazardows Substance (CERCLA):

Na

Reportable Quantity (RQ):

NA

Extremely Hazardous Substance (SARA-302):No.

Threshold Planning Quantity (TPQ):

10,000 fbs. (default)

Toxic Chemical (SARA-313):

No

Hazardous Air Pollutant (CAA):

No

Section 16 - Other Information

Prepared By:

EMPE, Inc.

Sources of Information:

29 CFR 1910.1000; NIOSH Pocket Guide to Chemical Hazards (1990); Hawley's Condensed Chemical Dictionary - 11th Edition; Sax's Dangerous Properties of Industrial Materials - 6th Edition; EPA Title III List of Lists (1994); EPA Quality Criteria for Water (1986); EPA Superfund Public Health Evaluation Manual (1986); 49 CFR 172; NFPA Guide to Hazardous Materials - 10th Edition; SM Respirator Selection Guide (1992); NFPA Guide to Hazardous Materials - 10th Edition; NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards (1978); 40

CFR 261.

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