SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: November 1999

Product: Hydrogen Peroxide 3%

SECTION 2: Composition / Information in Ingredients

Name: Hydrogen Peroxide, \( \text{H}_2\text{O}_2 \)  CAS#: 7722-84-1
OSHA PEL: 1ppm (TWA)
Name: Water

SECTION 3: Hazards Identification

Colorless, odorless liquid that is slightly acidic. Hydrogen peroxide in this concentration is a mild oxidizer, 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 Routes of Exposure: Ingestion, inhalation, dermal contact, eye contact
Target Organs: Eyes, skin, respiratory system

Symptoms of Overexposure:
- Inhalation: Irritation of eyes, nose and throat.
- Ingestion: Irritation of the upper G.I. tract, possible distension of the esophagus or stomach.
- Dermal Contact: Vesicles on skin, bleaching hair, general irritation of skin
- Acute Effects: Irritation of skin as noted above
- Chronic Effects: No data
- Pre-existing disorders of the skin may be exacerbated by exposure of hydrogen peroxide

HMIS: H=2, F=0, R=1  See Section 8 for PPE information

SECTION 4: First Aid Measures

Eye: Flush eyes with copious amount of water for at least 15 minutes
Skin: Flush with water. If irritation persists, seek medical attention.
Ingestion: Drink plenty of water or milk immediately to dilute. Do not induce vomiting. Seek medical attention or contact the poison control center.
Inhalation: Remove victim to fresh air and seek medical attention
SECTION 5: Fire Fighting Measures
Extinguishing Media: Use water fog, alcohol foam, dry chemical or CO2
Unusual Fire or Explosion Hazards: Decomposition releases oxygen which may intensify fire (see section 9)
Recommendations: Extinguish fire using agent suitable for surrounding fire. Cool containers exposed to fire with flooding quantities of water.

SECTION 6: Accidental Release Measures
Large Spills: Evacuate the area of unprotected personnel. Utilize appropriate level of personal protective equipment. Contain source if it is safe to do so. Dike or otherwise confine spilled product. Keep away from open flame.
Small Spills: Dilute with large amounts of water and if possible, direct solution to diked area and hold until decomposed.

SECTION 7: Handling and Storage
Storage Requirements: Store in tightly closed containers in a cool, dry area away from heat and other possible ignition source.
Handling Precautions: Maintain appropriate class of fire extinguishers nearby in case of fire.

SECTION 8: Exposure Controls / Personal Protection
OSHA PEL=1ppm (TWA) OSHA STEL=N/A IDLH=75ppm

Recommended Engineering Controls: Use ventilation equipment as necessary.
Recommended Admin Controls: Train employees on the hazards of Hydrogen Peroxide
PPE: Wear chemical goggles where the threat of exposure exists. Gloves should be worn if the user has sensitive skin or frequently use the product. Eye wash fountains should be provided for personnel in areas where eye exposure is possible.
Recommended Hygiene Practices: Clean PPE and work clothing contaminated with hydrogen peroxide prior to reuse.

SECTION 9: Physical and Chemical Properties
Appearance: Colorless liquid Freezing Point: <0 °C Autoignition: N/A
Odor: Slightly Sharp Water Solubility: Miscible LEL: N/A
Odor Threshold: No Data Molecular Weight: 18.5 (app) UEL: N/A
Vapor Pressure: 10.1mm Specific Gravity: 1.0 Vapor Density:.63(app)
Boiling Point: 214 °F Flash Point: >200 °F

SECTION 10: Stability and Reactivity
Stability: Slightly unstable
Polymerization: Will not occur
Conditions to avoid: Heat, sparks, and open flame, contact with incompatible materials. Hydrogen Peroxide in great concentrations is incompatible with reducing agents, rust, dirt, organic materials.
Hazardous Products: Decomposition releases oxygen which may intensify fire.
SECTION 11: Toxicological Information
LD50: 4060 mg/kg (dermal rat)           LC50: 2000 mg/m³ (4hr inhalation, rat)
LDLo: 227 ppm (inhalation- mouse)
Carcinogenicity: Not identified as a carcinogen by OSHA, IARC, or NTP
Mutagenicity: Not Indicated
Reproductive Effects: Not Indicated

SECTION 12: Ecological Information
Ecotoxicity: N/A  Environmental Fate: N/A  Soil Absorption/Mobility: Highly Mobile
Environmental Degradation: Should be removed readily from soils and water by volatilization and biodegradation.

SECTION 13: Disposal Considerations
Disposal: Contact your supplier or a licensed contractor for detailed recommendations.
Disposal Regulatory Requirements: Follow applicable federal, state and local regulations.

SECTION 14: Transport Information
Shipping Name: Hydrogen Peroxide (Non Regulated in concentrations <8%)

SECTION 15: Regulatory Information
RCRA Hazardous Waste Number/Classification: N/A
CERCLA Substance: N/A
CERCLA Reportable Quantity: 10,000 lbs (Default)
SARA 311/312 Codes: N/A
SARA Toxic Chemical: N/A

SECTION 16: Other Information
Prepared by: Cumberland Swan


Disclaimer: While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser’s responsibility to ensure the suitability of such information as it applies to the purchaser’s intended use of the material.