

Material Safety Data Sheet

SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: November 1999

Product: Hydrogen Peroxide 3%

Telephone: (615) 459-8900

24hr. Emergency: (615) 459-8900 ext. 5270

SECTION 2: Composition / Information in Ingredients

Name: Hydrogen Peroxide, H_2O_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.

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 of Decomposition: Decomposition releases oxygen which may intensify fire.

SECTION 11: Toxicological Information

LD₅₀: 4060 mg/kg (dermal rat) LC₅₀: 2000 mg/m³ (4hr inhalation, rat)
LD_{LO}: 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

Source of Information: 29CFR1910.1000; NIOSH Pocket Guide to Chemical Hazards (1993); Occupational Health Guidelines for Chemical Hazards; NFPA Guide to Hazardous Materials - 10th Edition.

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.