



# MATERIAL SAFETY DATA SHEET

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MSDS No. HH 184  
Effective Date March 8, 1999

## SECTION V HEALTH HAZARD DATA

HH184

### Threshold Limited Value

None established for this mixture.

### Effects of Overexposure

**EYES:** May cause irritation and/or burns. This product may cause corneal damage several days later. **SKIN:** May cause irritation and/or burns. **INHALATION:** May be irritating to respiratory tract. **INGESTION:** May cause burns to the gastrointestinal tract.

### Emergency and First Aid Procedures

**EYES:** Immediately flush eyes with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN:** Flush skin thoroughly with water while removing contaminated clothing. Call physician if irritation persists or burns occur. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. Give victim plenty of water to dilute stomach contents. Call physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable	X	Conditions to Avoid	Stable only when cool and pure.
	Stable			
Incompatibility (Materials to Avoid)	Heavy metals, heavy metal ions/salts, rust, alkali, organic materials, reducing agents, dust and dirt.			
Hazardous Decomposition Products	Can include oxygen, which will promote the combustion of flammable material.			
Hazardous Polymerization	May Occur		Will Not Occur	Not applicable.
	X			

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Eliminate source of spill and wash away with large quantities of water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.  Disposal should be conducted by an EPA (RCRA) permitted waste disposal facility.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.			
Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety goggles.
Other Protective Equipment	Smock, apron, eye wash station, proper gloves, goggles, face shield, fire extinguisher.			

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in original containers, in dry location and away from sun and heat. Keep away from open flames, fire and sparks. Wash hands thoroughly after handling. <small>Keep container tightly closed when not in use.</small>
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  Avoid contact with skin, eyes, mucous membranes and combustible material. Remove and wash contaminated clothing. Drying of this material on clothing or combustible materials may cause fire.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.			
Revision No. 2	Date 3/8/99	Approved Michael Raszeja	Chemical Safety Coordinator MR

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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	HYDROGEN PEROXIDE, 12%
Chemical Synonyms	Hydrogen Peroxide, without stabilizer.
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

0
2 1
oxy

CHEMTREC  
**800-424-9300**  
Day 716-226-6177

Health	3
Fire	0
Reactivity	2

NFPA  
HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS \*


## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Hydrogen Peroxide: (CAS No. 7722-84-1)	12%	TWA: 1 ppm; 1.4 mg/m <sup>3</sup>
Water: (CAS No. 7732-18-5)	88%	None established.
<b>DANGER! STRONG OXIDIZER! Causes eye and skin irritation and/or burns. Harmful if swallowed.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes @ approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	<1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; slightly pungent irritating odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	None	Lower	Upper
Extinguisher Media	Use water only to fight fires in which this material is involved.				

### SPECIAL FIREFIGHTING PROCEDURES

Evacuate enclosed and surrounding areas. Cool tanks or containers with plenty of water. In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing with eye protection.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Powerful oxidizing material. Spontaneous combustion can occur if allowed to remain in contact with readily oxidizable materials. Drying of product on clothing or combustible materials may cause fire. If containers are sealed, high pressure may develop due to released oxygen, resulting in explosion or rupture. Do not allow temperature of storage container to rise above 100°F.

D.O.T. Hydrogen peroxide, aqueous solutions, 5.1, UN 2984, PG III

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20