

MATERIAL SAFETY DATA SHEET

H
CAROLINA BIOLOGICAL

Revised: 09/05/00
Replaces: None
Printed: 25/08/00

1. PRODUCT DESCRIPTION

Product Name: Hydrogen Peroxide, 30-35%
Product Code(s): 86-8150, 86-8152, 86-8170
Size: 500 mL, 4 L
Chemical Name: Hydrogen Peroxide
CAS Number: 7722-84-1
Formula: H₂O₂
Synonyms: Hydrogen Peroxide Solution
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Hydrogen Peroxide(Cas#7722-84-1) 30-35%
TLV and PEL units: ACGIH-TLV: 1 ppm (TWA)
OSHA-PEL: 1 ppm (TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: DANGER. Causes burns. Harmful if swallowed or inhaled. May cause eye injury. Effects may be delayed. Strong oxidizer. Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse.

Get medical attention if irritation persists.

Ingestion - Do not induce vomiting. If swallowed, if conscious, give plenty of water immediately and call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No information available

NFPA Rating: Health: 2

Fire: 0

Reactivity: 1

Extinguisher Media:

Use media suitable to extinguish surrounding fire.

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Flammable Limits in Air % by Volume: No data available.
Autoignition Temperature: No data available.
Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Strong oxidizer. Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep container tightly closed. Store separately and away from flammable and combustible materials. Keep containers out of sun and away from heat. Containers should be covered and vented.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes
Mechanical(General): Yes
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No data available.

Melting Point: -28 C

Boiling Point: 106 C

Vapor Pressure: 23.3

Vapor Density(Air=1): No data available.

Specific Gravity(H₂O=1): 1.11

Percent Volatile by Volume: 100

Evaporation Rate(H₂O=1): >1

Solubility in Water: Complete (100%)

Appearance and Odor: Clear, colorless liquid. Pungent odor

10. REACTIVITY DATA

Stability: Unstable

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Conditions to Avoid: Heat
Incompatibility(Materials to Avoid): Combustible materials, strong reducing agents, most common metals, organic materials, metallic salts, alkalis, porous materials; Esp. wood, asbestos, soil, rust, strong oxidizing agents
Hazardous Decomposition Products: None identified
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: oral-rat LD50 for Hydrogen Peroxide 1518 mg/kg
Effects of Overexposure:
Acute: See section 3
Chronic: None identified
Conditions Aggravated by Overexposure: None identified
Target Organs: Eyes, Skin, Mucous Membranes, Respiratory System
Primary Route(s) of Entry: Eye contact, skin contact, inhalation, ingestion

12. ECOLOGICAL DATA

EPA Waste Numbers: D001, D002(Ignitable, corrosive waste)

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Hydrogen Peroxide, aqueous solution, 5.1, UN2014, II

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute Chronic
Flammability

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313		CERCLA Sec. 103 RQ lbs.	RCRA Sec.
		Name	Chemical List Category		
261.33					

Hydrogen Peroxide Solution	No	No	No	Yes	No
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16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

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Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act