

Material Safety Data Sheet



Hydrogen Peroxide, 30%

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Hydrogen Peroxide, 30%
Product Code(s): 86-8146, 86-8150, 86-8152, 86-8170, 86-8176
Size: 100 mL, 500 mL, 4 L
Chemical Name: Hydrogen Peroxide, Aqueous Solution
CAS Number: 7722-84-1
Formula: H₂O₂ (aq)
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** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: DANGER - Causes burns. Harmful if inhaled or swallowed. Powerful oxidizer. Contact with combustible material may cause fire.

Potential Health Effects:

Eyes: Irritating to eyes. Causes severe burns and eye damage upon direct contact. Vapor is irritating.
Skin: May cause severe irritation or chemical burns.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: Irritating to respiratory system.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Hydrogen Peroxide (CAS # 7722-84-1) 30%
TLV units: ACGIH-TLV: 1 ppm (TWA)
PEL units: OSHA-PEL: 1 ppm (TWA)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion - If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.
Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 3

Fire: 0

Reactivity: 2

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Contact with combustible material may cause fire.

Closed container may build up pressure if exposed to fire or heat.

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Avoid contact with skin and eyes.

Do not ingest or take internally.

Keep away from combustible material. Avoid direct sunlight and heat.

Store in a secure area suitable for oxidizing agents. Store away from flammable materials, organic solvents and combustible materials.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. 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: Natural rubber, Neoprene, PVC or equivalent.

Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 34.01

Boiling Point: 108°C (226°F)

Vapor Density(Air=1): 1.17

Percent Volatile by Volume: N/A

Solubility in Water: Soluble

Melting Point: -25°C (-13°F)

Vapor Pressure: 24 mmHg at 20°C

Specific Gravity (H2O=1): 1.1

Evaporation Rate (BuAc=1): <= 1 (BuAc)

Appearance and Odor: Clear, colorless liquid with pungent odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Direct sunlight; Product is photosensitive.

Incompatibility (Materials to Avoid): Oxidizers, Metals, Metal Salts, Reducing agents, Alkalis, Organics,

Hazardous Decomposition Products: O2 H2,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: ORL LD50 - Rat 1253 mg/kg

INH LC50 - Rat: 6667 mg/m³ 4h

DER LD50 - Rat: 3000 mg/kg

Effects of Overexposure:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Mutation data cited.

Conditions Aggravated by Overexposure: Skin disorders,

Target Organs: Eyes, Skin, Respiratory system,

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D002 (Corrosivity)

Section 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.

Section 14 - Transport Information

DOT Proper Shipping Name: UN2014

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Division 5.1 (8)

P.G. II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute Chronic Fire

Name List:

Hydrogen Peroxide Solution - No

Chemical Category:

Hydrogen Peroxide Solution - No

CERCLA Section 103 RQ(lb.): Hydrogen Peroxide Solution - No

RCRA Section 261.33: Hydrogen Peroxide Solution - D002 (Corrosivity)

Section 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.

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