

Safety Data Sheet

Hydrogen Peroxide, 6%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Hydrogen Peroxide, 6%
Recommended Use: Science education applications
Synonyms: N/A
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



May cause fire or explosion; strong oxidizer. Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life.

GHS Classification:

Oxidizing Liquid Category 1, Skin Corrosion/Irritation Category 1A, Hazardous to the aquatic environment - Acute Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Dermal Category 4, Acute Toxicity - Oral Category 4

Other Safety Precautions: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Water | 7732-18-5 | 90 |
| Hydrogen Peroxide | 7722-84-1 | 10 |

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

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Fire and/or Explosion Hazards:
Hazardous Combustion Products:

Contact with combustible material may cause fire.
Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear fire/flare resistant/retardant clothing. Keep container tightly closed in a cool, well-ventilated place. Avoid direct sunlight and heat. Keep away from sources of ignition - No smoking. Keep container tightly closed. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not breathe dust. Keep away from combustible material.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Suitable for any general chemical storage.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

| <u>Chemical Name</u> | <u>ACGIH</u> | | <u>OSHA PEL</u> | |
|----------------------|--------------|---------------|--------------------------|---------------|
| | <u>(TWA)</u> | <u>(STEL)</u> | <u>(TWA)</u> | <u>(STEL)</u> |
| Hydrogen Peroxide | 1 ppm TWA | N/A | 1 ppm TWA; 1.4 mg/m3 TWA | N/A |

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile, Butyl rubber

Section 9

Physical Data

| | |
|--|---|
| Formula: H2O2 | Vapor Pressure: 14 (water) |
| Molecular Weight: N/A | Evaporation Rate (BuAc=1): <1 |
| Appearance: Colorless | Vapor Density (Air=1): 0.7 (water) |
| Odor: None | Specific Gravity: Approx. 1.0 |
| Odor Threshold: No data available | Solubility in Water: Soluble |
| pH: 3-4 (approx.) | Log Pow (calculated): No data available |
| Melting Point: 0 | Autoignition Temperature: No data available |
| Boiling Point: 100 C | Decomposition Temperature: No data available |
| Flash Point: No data available | Viscosity: No data available |
| Flammable Limits in Air: N/A | Percent Volatile by Volume: 100% |

Section 10

Reactivity Data

Reactivity: Oxidizer.

Chemical Stability: Stable under normal conditions. Stable. However, may decompose if heated

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

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Incompatible Materials:
Hazardous Polymerization:

Metals,, Reducing agents,
Will not occur

Section 11 Toxicity Data

Routes of Entry: N/A
Symptoms (Acute): N/A
Delayed Effects: No data available

Acute Toxicity:

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------|------------|--|-------------------------------|---|
| Water | 7732-18-5 | Oral LD50 Rat 90000 mg/kg | | |
| Hydrogen Peroxide | 7722-84-1 | Oral LD50 Rat 910 mg/kg Oral LD50 Rat 376 mg/kg | Dermal LD50 Rat 4060 mg/kg | Inhalation LC50 (4h) Rat 2000 MG/CU M |

Carcinogenicity:

| Chemical Name | CAS Number | IARC | NTP | OSHA |
|-------------------|------------|------------|------------|------------|
| No data available | | Not listed | Not listed | Not listed |

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2
Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

| Chemical Name | CAS Number | Eco Toxicity |
|-------------------|------------|---|
| Water | 7732-18-5 | No data available |
| Hydrogen Peroxide | 7722-84-1 | 96 HR LC50 PIMEPHALES PROMELAS 16.4 MG/L 24 HR EC50 DAPHNIA MAGNA 7.7 MG/L 72 HR EC50 CHLORELLA VULGARIS 2.5 MG/L |

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: N/A
Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

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| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------|------------|------------|----------|-----------|----------------------------------|---------------|
| Hydrogen Peroxide | 7722-84-1 | No | No | No | 1000 lb TPQ (concentration >52%) | No |

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

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.

Glossary

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