# Hydrogen Peroxide, 3%



### **Section 1**

### **Product Description**

Product Name: Hydrogen Peroxide, 3%
Recommended Use: Science education applications
Synonyms: Hydrogen Peroxide Solution
Distributor: Carolina Biological Supply Com

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** 





Causes skin irritation. Causes serious eye damage.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2

#### **Section 3**

## **Composition / Information on Ingredients**

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 97

 Hydrogen Peroxide
 7722-84-1
 3

#### **Section 4**

#### First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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 SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 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.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

### **Section 6**

## **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not

breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers

hazardous; use caution.

Suitable for any general chemical storage. Storage:

Avoid direct sunlight and heat.

Green - general chemical storage Storage Code:

**Protection Information** Section 8

**ACGIH OSHA PEL Chemical Name** (TWA) (STEL) (TWA) (STEL) Hydrogen Peroxide 1 ppm TWA N/A 1 ppm TWA; 1.4 N/A mg/m3 TWA

Control Parameters

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

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

**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

Lab coat, apron, eye wash, safety shower.

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: Neoprene, Nitrile

Section 9 Physical Data

Formula: H202 (aq)

Molecular Weight: 34.01 g/mol Appearance: Colorless Liquid

Odor: None

Odor Threshold: No data available

**pH:** 6.0-8.0

Melting Point: No data available

**Boiling Point: 100 C** 

Flash Point: No data available

Flammable Limits in Air: N/A

Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 100%

Evaporation Rate (BuAc=1): N/A

**Vapor Density (Air=1):** 1.2 (air = 1)

Log Pow (calculated): No data available

Vapor Pressure: N/A

Specific Gravity: 1.01

Solubility in Water: Soluble

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Water-reactive materials, Metals (powdered)

**Hazardous Polymerization:** Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Eye Irritation, Respiratory Irritation

**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 Dermal LD50 Rat **INHALATION** 4060 mg/kg

mg/kg

Oral LD50 Rat 376

mg/kg

LC50 Rat 2

GM/M3

Carcinogenicity:

**Chemical Name CAS Number IARC** NTP **OSHA** No data available 7732-18-5 Not listed Not listed Not listed

7722-84-1

**Chronic Effects:** 

Section 14

No evidence of a mutagenic effect. Mutagenicity:

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: Skin, Eyes Chronic: No data available

#### Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data No data Bioaccumulation: Degradability: No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** 7732-18-5 Water 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. This material is not considered to be a RCRA hazardous waste.

Transport Information

Waste Disposal Code(s):

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

#### Section 15 Regulatory Information

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

CAS **Chemical Name** § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** Number TQ

1000 lb TPQ Hydrogen Peroxide 7722-84-1 No No No No

(concentratio

n >52%)

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

Revised: 08/21/2018 Replaces: 06/15/2018 Printed: 08-25-2018

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.

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