

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: HYDROGEN PEROXIDE
Control Number: 00254
Product Description: Peroxide Compound

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.
916 West Lathrop Avenue
Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC
General Information: (912) 236-1331

SECTION 2 - HAZARDOUS IDENTIFICATION

GHS Classification:

[Health]

Eye irritation (Category 2A)
Skin corrosion (Category 1A)
Acute toxicity, Oral (Category 4)

[Environmental]

Acute aquatic toxicity (Category 3)
Chronic aquatic toxicity (Category 3)

[Physical]

Oxidizing liquids (Category 1)
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictograms



Symbols: Irritant, Corrosive

Hazard statement(s)

H271 May cause fire or explosion; strong oxidizer.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P210 Keep away from heat.
P221 Take any precaution to avoid mixing with combustibles.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Hydrogen Peroxide	7722-84-1	25-35

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:

Skin Contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

SECTION 5 · FIRE FIGHTING MEASURES

Extinguishing Media Use chemical powder, water spray, fog or foam. Do not use water jet.

Fire Fighting Procedures: Use water spray to keep fire-exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.

Fire Fighting Instructions: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill: Corrosive liquid. Oxidizing material. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed.

SECTION 7 · STORAGE AND HANDLING

Precautions: Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalizes, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.

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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Use adequate mechanical ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

Exposure Limits: Hydrogen Peroxide 1 ppm ACGIH 1 ppm OSHA

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: Wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined spaces, use a self-contained breathing apparatus.

Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Non-combustible

Decomposition Temperature: 140 °F

Boiling Point: 215-246 °F

Melting Point/Freezing Point: -64/-27 °F

Vapor Pressure: 23 mmHg

Vapor Density (Air=1): 1

Solubility in Water: Soluble

Odor/Appearance: Clear odorless liquid

Flammability Limits: Not Applicable

Specific Gravity: 1.1 – 1.2

Volatile %: 100

Evaporation Rate (BuAc=1): >1

Viscosity: Not available.

pH: 3.3 (30% Sol'n)

Molecular Formula: H₂O₂

Pour Point: No published data

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Conditions to Avoid: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

Incompatibility: Reactive with oxidizing agents, metals.

Hazardous Polymerization: Will not occur under normal temperatures and pressures.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting, hypermotility, and diarrhea.

Inhalation: Causes respiratory tract irritation with coughing, lacrimation. May cause chemical burns to the respiratory tract.

Skin contact: Causes severe skin irritation and possible burns.

Eye contact: Causes severe eye irritation, superficial clouding, corneal edema, and may cause burns.

Acute oral toxicity:

Acute Oral LD₅₀ Rat: 376 mg/kg

Acute inhalation toxicity:

Acute Inhalation LC₅₀ Rat: 2000 mg/m³ 4.00 hours

Acute dermal toxicity:

No available data

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SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: Harmful to aquatic life with long lasting effects.
Bio-accumulative potential: Bioaccumulation of this product is unlikely.
Mobility: Moderately mobile in soil and likely to volatilize from soil surface.

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Hydrogen Peroxide, Aqueous Solution
Hazard Class: 5.1
UN Number: 2014
Packaging Group: 2

SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

The reportable quantity (RQ) is 100 lbs. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard, Delayed Health Hazard, Reactivity Hazard

SARA Section 313 (40 CFR 372) Hazard Categories: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CCA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

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SECTION 16 - OTHER INFORMATION

MSDS Revision Date: February 2015

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 2

Flammability: 0

Reactivity: 1

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.