



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** **HYDROGEN PEROXIDE (50%)**
- **Manufacturer:** Deep South Chemical, Inc.
229 Millstone Road
Broussard, LA 70518 (337) 837-9931
- **For Emergency : Call CHEMTREC 1-800-424-9300**
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** Oxidizer
- **Contact Person:** Glenn Ray
- **Formula:** H₂O₂
- **MSDS Revised:** January 1, 2014

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>CAS Number</u>	<u>%</u>	<u>PEL(OSHA)</u>		<u>TLV(ACGIH)</u>		<u>IDLH</u>
			<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	
Hydrogen Peroxide	7722-84-1	50	1ppm	N/E	1ppm	N/E	75ppm

SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Effects of overexposure

Inhalation: This product may cause irritation to nose, throat, and respiratory tract if exposure is excessive.

Skin Contact: Mild irritation to skin.

Eye Contact: Irritation to eyes.

Ingestion: There may be irritation of the mouth, throat, and digestive tract.

SECTION 4. FIRST AID MEASURES

Eyes: Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

Inhalation: Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

Skin: Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

Ingestion: Drink plenty water. Do not induce vomiting. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Fire fighting measures

Extinguishing Media: Hydrogen peroxide is noncombustible but as an oxidizer, it promotes ignition of combustible materials. Use water only: Do not use dry chemical extinguishers as they accelerate decomposition of H₂O₂.

Decomposition/Combustion Products: Flammable hydrogen gas.

Explosive Properties:

LEL: 40%

UEL: 100%

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Use proper personal protective equipment. Stay upwind and away from spill. If spill is indoors, ventilate area. Keep out of drains, sewers or waterways. Use sand or other inert material to contain and soak up spill.

Waste disposal method: Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

SECTION 7. HANDLING AND STORAGE

Storage: Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area.

Handling: Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Keep work area well ventilated.

Protective clothing: Impermeable gloves and impervious clothing as appropriate.

Eye protection: Chemical goggles where splashing may occur.

Respiratory Protection: Use appropriate respiratory protection when handling or in case of insufficient ventilation.

Special Protection: Safety shower, eye bath, and washing facilities should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 68°F(H₂O = 1): 1.2

Flash Point (PMCC Method)(°F): Noncombustible

Vapor density (Air = 1): N/A

Solubility: Miscible in water

Vapor pressure @ 59°F: 1mmHg

Appearance: Colorless liquid

Odor: Acrid odor.

Boiling Point (°F): 226 to 237

Percent Volatile by Volume: N/D

Viscosity: 1.245cP

pH: Slightly acidic

Auto-ignition: N/D

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity: Pure H₂O₂ solutions, completely free from contaminants are very stable but still decompose slowly to release oxygen even when inhibited (0.5% per year). Consequently, it must be stored in vented containers to prevent pressure build-up which can burst the container. Agitation, exposure to UV radiation, or contact with ruff surfaces accelerates decomposition. Keep containers covered so that water does not evaporate, making the H₂O₂ more concentrated and increasing fire/explosion potential.

Incompatible Materials: Reacts with alkalides, ammonia and its carbonates, alcohols, iodides, hypophosphites, lime water, sulfites, finely divided metals, permanganates, organic compounds (wood, paper, oil, etc.) and any other oxidizable materials.

Hazardous Decomposition Products: Flammable hydrogen gas.

Hazardous Polymerization: None described.



SECTION 11. TOXICOLOGICAL INFORMATION

Rat, oral, TD_{LO}: 36432mg/kg (8 to 20%) administered to 12 week old males produced paternal reproductive effects.

Rat, oral, LD₅₀: 1518mg/kg (8 to 20%) caused drowsiness.

Mouse, oral, TD_{LO}: 622g/kg (30%) administered continuously for 2 years produced gastrointestinal tumors.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Values: Fingerling trout, >40ppm/48hr is toxic

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: If spilled, dispose according to local, state, and federal regulations. Recycle waste containers and clean out residues.

SECTION 14. TRANSPORT INFORMATION

DOT Transport Information: UN2014, Hydrogen Peroxide, aqueous solutions *with more than 40 percent but not more than 60 percent hydrogen peroxide* (stabilized as necessary) 5.1, PG II (50% Hydrogen Peroxide)

SECTION 15. REGULATORY INFORMATION

Toxic Substances Control Act (TCSA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA RQ-40 CFR 302.4(a)

Component

None

CERCLA RQ (lbs)

SARA 302 Components-40 CFR 355 Appendix A

Component

None

TPQ(Threshold Planning Quantity) (lbs)

Section 311/312 Hazard Class-40 CFR 370.2

Immediate (X)

Delayed ()

Fire ()

Reactive (X)

Sudden Release of Pressure ()

SARA 313-40 CFR 372.65

Component

None

CAS Number

%

SECTION 16. OTHER INFORMATION

NFPA RATING: Health (2) Fire (0) Reactivity (1)

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N/D= No data; N/A = Not available; N/E= Not established