

Material Safety Data Sheet

Provided by:

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name HYDROGEN PEROXIDE

Synonyms

Chemical Name HYDROGEN PEROXIDE

Emergency phone: 281-457-4888

Chemtrec: 800-424-9300

Date of Issue: 10/1/00

Revised Date: N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
HYDROGEN PEROXIDE	20% - 60%	7722-84-1

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 1 ppm

Eye Contact CONTACT MAY CAUSE SEVERE IRRITATION AND BURNS.

Skin Contact CONTACT MAY CAUSE SEVERE IRRITATION AND BURNS.

Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

Inhalation MAY CAUSE RESPIRATORY TRACT IRRITATION.

Carcinogenicity: *NTP* NO *IARC* NO *OSHA* NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point NOT APPLICABLE

Extinguishing Media USE ONLY WATER.

**Special Firefighting
Procedures/Precuations**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. REACTS WITH METALS TO PRODUCE FLAMMABLE AND EXPLOSIVE HYDROGEN GAS. KEEP FIRE EXPOSED CONTAINERS COOL WITH WATER.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill: CONTAIN AND COLLECT IN CONTAINERS FOR DISPOSAL.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

STORE ON FLAME RETARDANT PALLETS. HAVE WATER SOURCE AVAILABLE FOR DILUTING. DO NOT ADD ANY PRODUCT TO CONTAINER.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.

Ventilation LOCAL AND MECHANICAL RECOMMENDED.

Protective Gloves CHEMICAL IMPERVIOUS GLOVES.

Eye/Face Protection CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

Other Protection CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

Work Practices USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 217 - 257 **Vapor Pressure (mmHg):** 15-28 (@77 F)

Freezing Point (°F): 2 - 68 **Vapor Density (Air=1):** NOT ESTABLISHED

Solubility (H2O): COMPLETE **Specific Gravity (H2O=1):** 1.07 - 1.23

pH 2 - 4 **Evaporation Rate:** >1

Appearance/Odor: CLEAR COLORLESS LIQUID WITH SLIGHTLY PUNGENT ODOR.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: NO

Incompatible Materials EXCESSIVE HEAT, CONTAMINATION OF ANY KIND. CYANIDES, IRON, COPPER AND ALLOYS, HEXAVALEN CHROMIUM, NITRIC ACID, POTASSIUM PERMANGANATE, REDUCING AGENTS & OTHER FLAMMABLES.

Decomposition Products OXYGEN WHICH SUPPORTS COMBUSTION.

Hazardous Polymerization: WILL NOT OCCUR.

SECTION 11 - TOXICITY INFORMATION

LC50 INHL (rat) => 2000 ppm LD50 SKIN (rabbit) => 2000 mg/kg LD50 ORAL (rat) = 1232 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

LC50/96HR/CATFISH = 37.4 MG/L

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Hazard Class: 5.1

UN/NA Number: UN2015

Packing Group: II

Subsidiary Hazard CORROSIVE

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): 1

SARA Title III Section 312:

Acute **Chronic** **Flammable** **Sudden Release of Pressure** **Reactive**

SARA Title III Section 313: No

SARA Extremely Hazardous Substance: Yes

HMIS HAZARD RATING

Health: 3 **Fire:** 0 **Reactivity:** 2

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

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