

PMM SDS # 015 / 16

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INDEX: 15931133910	CAT. NO.: H225100	PO NBR: H225100

HYDROGEN PEROXIDE SOLUTIONS
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MATERIAL SAFETY DATA SHEET

EMERGENCY NUMBER: (201) 795-7100
CHEMTRAC ASSISTANCE: (800) 424-9300

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SUBSTANCE IDENTIFICATION

SUBSTANCE: **HYDROGEN PEROXIDE SOLUTIONS** CAS NUMBER 7722-84-1

TRADE NAMES/SYNONYMS:
HYDROGEN PEROXIDE SOLUTION, 30-50% STCC 4018776; UN 2014; H-323; H-325;
H-327; H-341; ACCL1189

CHEMICAL FAMILY:

PEROXIDE

MOLECULAR FORMULA: H₂O₂

MOLECULAR WEIGHT: 34.02

CERCLA RATINGS (SCALE 0-3): HEALTH=3 FIRE=0 REACTIVITY=1 PERSISTENCE=0

COMPONENTS AND CONTAMINANTS

PERCENT: 30-40

PERCENT: 70-50

COMPONENT: WATER
OTHER CONTAMINANTS: MAY CONTAIN ACETANILIDE OR SODIUM STANNATE AS AN INHIBITOR

EXPOSURE LIMITS:

HYDROGEN PEROXIDE

1 ppm (1 mg/m³) OSHA TWA

1 ppm (1 mg/m³) ACGIH TWA

1 ppm (1 mg/m³) NIOSH RECOMMENDED TWA

1 ppm (1 mg/m³) ICIG MAK

1 ppm (1 mg/m³) DGC MAK 5 MINUTE PEAK

1 ppm (1 mg/m³) DGC MAK 5 MINUTE PEAK, MOMENTARY VALUE, 8 TIMES/SHIFT

(CONCENTRATIONS GREATER THAN 52%):

100 POUNDS SARA SECTION 302 THRESHOLD PLANNING QUANTITY

1 POUND SARA SECTION 302 THRESHOLD QUANTITY

7500 POUNDS OSHA PROCESS SAFETY MANAGEMENT THRESHOLD QUANTITY

PHYSICAL DATA

DESCRIPTION: COLORLESS, CLEAR WATER-LIKE LIQUID WITH A SLIGHTLY SHARP

ODOR AND BITTER TASTE. BOILING POINT: 223 F (106 C)

MELTING POINT: -13 F (-25 C) SPECIFIC GRAVITY: 1.1

VAPOR PRESSURE: 25 MMHG @ 30 C SOLUBILITY IN WATER: SOLUBLE

VAPOR DENSITY: 1.2

SOLVENT SOLUBILITY: ALCOHOL: INSOLUBLE IN PETROLEUM ETHER

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
NEGIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

OXIDIZER: OXIDIZERS DECOMPOSE, ESPECIALLY WHEN HEATED, TO YIELD OXYGEN OR OTHER GASES, WHICH WILL INCREASE THE BURNING RATE. OTHER GASES, WHICH ARE INERT, WILL NOT SUPPORT COMBUSTION.

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FIREFIGHTING MEDIA:
WATER ONLY NO DRY CHEMICAL, CARBON DIOXIDE OR HALON
(1980 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FOR LARGER FIRES, FLOOD AREA WITH WATER FROM A DISTANCE
(1980 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FIREFIGHTING:
MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL ARISE FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MAJOR FIRES, CALL IN CHARGED HELICOPTER. UNMANNED HOSE HOLDER OR MONITOR OF NOZZLES IS IMPROVED WITH DRAWS FROM AREA AND OFF FIRE BURN (1980 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

USE WATER IN FLOODING AMOUNTS AS A FOG. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER. APPLY FROM AS FAR A DISTANCE AS POSSIBLE. AVOID BREATHING TOXIC VAPORS. KEEP UPWIND.

TRANSPORTATION DATA

DEPARTMENT OF TRANSPORTATION HAZARD CLASSIFICATION 49-CFR 172.101:

OXIDIZER
DEPARTMENT OF TRANSPORTATION LABELING REQUIREMENTS 49-CFR 172.101 AND
SUPPLEMENT E:
OXIDIZER

DEPARTMENT OF TRANSPORTATION PACKAGING REQUIREMENTS: 49-CFR 173.268
EXCEPTIONS: 49 CFR 173.244

FINAL RULE ON HAZARDOUS MATERIALS REGULATIONS (HMR), 49 CFR PARTS 171-180).
DOCKET NUMBERS HM-181, HM-181A, HM-181B, HM-181C, HM-181D AND HM-204.
EFFECTIVE DATE OCTOBER 1, 1981. COMPLIANCE WITH THE REGULATIONS IS AUTHORIZED ON AND AFTER JANUARY 1, 1991. (55 FR 52402, 12/21/90)

* EXCEPT FOR EXPLOSIVES, INHALATION HAZARDS, AND INFECTIOUS SUBSTANCES, THE EFFECTIVE DATE FOR HAZARD COMMUNICATION REQUIREMENTS IS EXTENDED TO OCTOBER 1, 1993. (55 FR 47156, 08/18/91)

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING NAME: ID NUMBER: 49 CFR 172.101.
HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS-UN 2014

U.S. DEPARTMENT OF TRANSPORTATION HAZARD CLASS OR DIVISION: 49 CFR 172.101:
5.1 - OXIDIZER

U.S. DEPARTMENT OF TRANSPORTATION PACKING GROUP: 49 CFR 172.101:
PG II

U.S. DEPARTMENT OF TRANSPORTATION LABELING REQUIREMENTS: 49 CFR 172.101.
AND SUBPART E:
OXIDIZER, CORROSIVE

U.S. DEPARTMENT OF TRANSPORTATION PACKAGING AUTHORIZATIONS:

EXCEPTIONS: NONE
NON BULK PACKAGING: 49 CFR 173.202
BULK PACKAGING: 49 CFR 173.243

U.S. DEPARTMENT OF TRANSPORTATION QUANTITY LIMITATIONS: 49 CFR 172.101:
PASSENGER AIRCRAFT OR RAILCAR: FORBIDDEN
CARGO AIRCRAFT ONLY: FORBIDDEN

TOKICITY

HYDROGEN PEROXIDE: 30%
TOXICITY DATA: 1429 MG/M³ ORAL-MAN LD₅₀. MUTAGENIC DATA (IRTECH): TUMORIGENIC CANCER STATUS: ANIMAL LIMITED EVIDENCE (IARC GROUP-3). ORAL ADMINISTRATION IN MICE RESULTED IN ADENOMAS AND CARCINOMAS OF THE DUODENUM. OTHER STUDIES WERE INADEQUATE FOR EVALUATION. ONE STUDY BY SKIN APPLICATION INDICATED THAT HYDROGEN PEROXIDE HAS NO TUMOR PROMOTING ACTIVITY
LOCAL EFFECTS: CORROSIVE. INHALATION: SKIN, EYE, INGESTION.
ACUTE TOXICITY LEVEL: NO DATA AVAILABLE.
TARGET EFFECTS: NO DATA AVAILABLE.

HEALTH EFFECTS AND FIRST AID

INHALATION
HYDROGEN PEROXIDE: 30%
CORROSIVE. 75 ppm IS IMMEDIATELY DANGEROUS TO LIFE AND HEALTH.
ACUTE EXPOSURE - MAY CAUSE IRRITATION AND INFLAMMATION OF RESPIRATORY TRACT,
SORE THROAT, COUGHING, DYSPNEA, LABORED BREATHING, AND DELAYED PULMONARY
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