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MATERIAL SAFETY DATA SHEET FOR DIHYDROGEN MONOXIDE  
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PRODUCT NAME: DIHYDROGEN MONOXIDE  
FORMULA WT: 18.00  
CAS NO.: 51012-57-41  
NIOSH/RTECS NO.: SDS4400  
COMMON SYNONYMS: DIHYDROGEN OXIDE, HYDRIC ACID  
PRODUCT CODES: 3145,4525

EFFECTIVE: 07/14/91

LABORATORY PROTECTIVE EQUIPMENT: SAFETY GLASSES, CHEMICAL  
RESISTANT GLOVES, CHEMICAL RESISTANT APRON OR LAB COAT

PRECAUTIONARY LABEL STATEMENTS

STORAGE: KEEP IN TIGHTLY CLOSED CONTAINER.

BOILING POINT: 100 C ( 212 F)  
VAPOR PRESSURE (MM HG): 17.5

MELTING POINT: 0 C ( 32 F)  
VAPOR DENSITY (AIR=1): N/A

SPECIFIC GRAVITY: 1.00  
EVAPORATION RATE: N/A

SOLUBILITY (H<sub>2</sub>O): COMPLETE (IN ALL PROPORTIONS) %  
VOLATILES BY VOLUME: 100

APPEARANCE & ODOR: ODORLESS, CLEAR COLORLESS LIQUID.

TOXICITY: LD50 (IPR-MOUSE) (G/KG) - 190  
LD50 (IV-MOUSE) (MG/KG) - 25

DISPOSAL PROCEDURE:  
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND  
LOCAL ENVIRONMENTAL REGULATIONS.

STORAGE COLOR CODE: BLUE (STORAGE IN GENERAL AREA)

SPECIAL PRECAUTIONS: KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. DIHYDROGEN MONOXIDE IS CONSIDERED A NON-REGULATED PRODUCT, BUT REACTS VIGOROUSLY WITH SOME MATERIALS. THESE INCLUDE SODIUM, POTASSIUM AND OTHER ALKALI METALS; ELEMENTAL FLUORINE; AND STRONG DEHYDRATING AGENTS SUCH AS SULFURIC ACID. IT FORMS EXPLOSIVE GASES WITH CALCIUM CARBIDE.

AVOID CONTACT WITH ALL MATERIALS UNTIL INVESTIGATION SHOWS SUBSTANCE IS COMPATIBLE. EXPANDS SIGNIFICANTLY UPON FREEZING. DO NOT STORE IN RIGID CONTAINER AND PROTECT FROM FREEZING.

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME           CHEMICALS, N.O.S. (NON-REGULATED)

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME           CHEMICALS, N.O.S. (NON-REGULATED)

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