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EM DIAGNOSTIC SYSTEMS INC -- MURIATIC ACID, 23 DEG. BE (SEE SUPP DATA)

6810-00-237-2955

============= Product Identification ==================

Product ID:MURIATIC ACID, 23 DEG. BE (SEE SUPP DATA)

MSDS Date:04/27/1993

FSC:6810

NIIN:00-237-2955

MSDS Number: BXDNH === Responsible Party ===

Company Name: EM DIAGNOSTIC SYSTEMS INC

Address:480 DEMOCRAT RD

Box:NONE

City:GIBBSTOWN

State:NJ ZIP:08027 Country:US Info Phone

Num:609-423-6300 / FAX 609-423-0671 Emergency Phone Num:609-423-6300

CAGE:0GDF9

=== Contractor Identification ===

Company Name: CAROLINA BIOLOGICAL SUPPLY CO

Address:2700 YORK RD Box:City:BURLINGTON

State:NC

ZIP:27215-3387 Country:US

Phone:800-227-1150/910-584-0381

CAGE:59896

Company Name: EM SCIENCE, A DIVISION OF EM INDUSTRIES

Address:480 DEMOCRAT RD

Box:70

City:GIBBSTOWN

State:NJ ZIP:08027 Country:US

Phone:856-423-6300

CAGE:0GDF9

====== Composition/Information on Ingredients =======

Ingred Name: HYDROCHLORIC ACID; (HYDROGEN CHLORIDE APPROX 30% AQUEOUS SOLUTION) (SARA 302/313) (CERCLA)

CAS:7647-01-0

RTECS #:MW4025000 Fraction by Wt: 100% OSHA PEL:5 PPM, C ACGIH TLV:5 PPM, C EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

========== Hazards Identification ===============

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RBT) = 900 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acu

te and Chronic:CAUSES SEVERE BURNS. MAY BE FATAL IF INHALED OR SWALLOWED. VAPOR EXTREMELY IRRITATING. MAY CAUSE DAMAGE TO RESPIRATORY PASSAGES & LUNGS.

Explanation of Carcinogenicity: THIS MATERIAL IS NOT LISTEDD AS CANCER CAUSING AGENT.

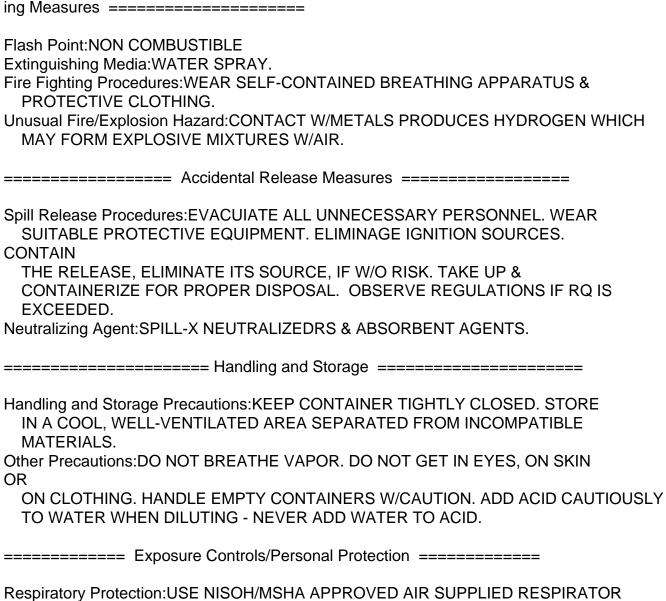
Effects of Overexposure:EYE:SEVERE BURNS, PERMANENT EYE DAMAGE.
SKIN:SEVERE BURNS, POSSIBLE DEEP ULCERATION. INHALATION:DAMAGE TO
NASAL & RESPIRATORY PASSAGES, PULMONARY EDEMA. INGESTION:BURNS OF
MOUTH, THROAT & G/I TRACT.

Medical Cond Agg

ravated by Exposure: RESPIRATORY CONDITIONS.

First Aid:**GET MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.**
EYE:FLUSH THOROUGHLY W/WATER FOR 15 MIN. SKIN:FLUSH THOROUGHLY
W/LARGE AMOUNTS OF WATER. INHALED:REMOVE FROM EXPOSURE. AID OR
RESTORE BREATHING AS NEEDED. INGESTED:DO NOT INDUCE VOMITING. GIVE
MILK OR WATER TO DRINK IF CONSCIOUS. GET IMMEDIATE MEDICAL
ATTENTION.

====== Fire Fight



Respiratory Protection:USE NISOH/MSHA APPROVED AIR SUPPLIED RESPIRATOR
IF WORKPLACE EXPOSURE LIMITS ARE EXCEEDED OR IN THE ABSENCE OF
PROPER ENVIRONMENTAL CONTROL. OSHA REGS PERMIT OTHER RESPIRATORS.
USSE ENGINEERING OR ADM INISTRATIVE CONTROLS TO REDUCE EXPOSURES
Ventilation:MATERIAL SHO

ULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR W/ADEQUATE VENTILATION.

Protective Gloves: NEOPRENE OR EQUIVALENT GLOVES.

Eye Protection: SAFETY GLASSES W/SIDE SHIELDS

Other Protective Equipment:EYE WASH & SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

Supplemental Safety and Health

NOTE:MSDS IS FOR "MURIATIC ACID" NOT ACS PURITY HYDROCHLORIC ACID AS PER TIR. HOWEVER ALL SAFETY PRECAUTIONS APPL

Y TO BOTH. ** PORTIONS

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ATION WAS DERIVED BY EM INDUSTRIES FROMARIEL'S INTERNATIONAL
CHEMICAL REGULATORY MONITORING SYSTEM.

======== Physical/Chemical Properties ===========

HCC:C1

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:230F,110C

Melt/Freeze Pt:M.P/F.P Text:-101F,-74C

Vapor Pres:160 MM Vapor Density:1.25 Spec Gravity:1.1885

Evaporation Rate & Description Rate & Reference: 2 (BUTYL ACETATE=1)

Solubility in Water

:MISCIBLE

Appearance and Odor: CLEAR COLORLESS LIQUID; ACRID ODOR.

Percent Volatiles by Volume:99.9+

Corrosion Rate: UNKNOWNN

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

BASES, AMINES, ALKALIES, CONTACT W/METALS PRODUCES HYDROGEN Stability Condition to Avoid:HEAT, CONTACT W/METALS.

Hazardous Decomposition Products: TOXIC HYDROGEN CHLORIDE GAS.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

====== Disposal Consi derations ===========

Waste Disposal Methods:EPA NO. = D002. ALWAYS CONTACT A PERMITTED WASTE DISPOSER TO ASSURE DISPOSAL I/A/W FEDERAL, STATE & LOCAL REGULATIONS. SPECIFIED TECHNOLOGY - NEUTRALIZE TO PH 6-9. CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR POSSIBLE TREATMENT SITES.

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