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FISHER SCIENTIFIC -- SULFURIC ACID, A298 212 -- 6810-00-227-1845

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

Product ID:SULFURIC ACID, A298 212

MSDS Date:12/28/1994

FSC:6810

NIIN:00-227-1845

MSDS Number: CDMJZ === Responsible Party ===

Company Name: FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:800-424-9300 (CHEMTREC)

CA

GE:1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address: 1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802 Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name: SULFURIC ACID (SARA 302/313) (CERCLA) LD50 (ORAL RAT): 2140

MG/KG

CAS:7664-93-9

RTECS #:WS5600000 Fraction by Wt: 95-98% OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3/3 STEL

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingre

d Name:SUP DAT: CHLORINE TRIFLUORIDE, CHLOROSULFONIC ACID, CUPROUS NITRIDE, DIISOBUTYLENE, EPICHLOROHYDRIN, ETHYLENE (ING 3) RTECS #:9999992Z

Ingred Name:ING 2: CYANOHYDRIN, ETHYLENE DIAMINE, ETHYLENE GLYCOL, ETHYLENIMINE, FULMINATES, OTHER ACIDS, IODINE (ING 4) RTECS #:9999992Z

Ingred Name:ING 3: HEPTAFLUORIDE, METALS, ISOPRENE, LITHIUM SILICIDE, MERCURIC NITRIDE, MESITYL OXIDE, P-NITROTOLUENE, (ING 5) RTECS #:9999992Z

Ingred Name:ING 4: PENTASILVER TRIHYD.

RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: REMOVE FROM EXPOS TO FRESH AIR IMMED. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG IS DFCLT, GIVE (ING 7) RTECS #:9999992Z

Ingred Name:ING 6: OXYGEN. NOTES TO MD: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. NONE REPORTED.

RTECS #:9999999ZZ

Ingred Name:EYE PROTECTION: AND FULL LENGTH FACESHIELD . RTECS #:9999999ZZ

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

LD50 LC50 Mixture: SEE INGREDIENT 1.

Routes of Entry: Inhalation:YES Skin:YES Ingest

ion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYES: CAUSES SEV BURNS. MAY CAUSE IRREVERSIBLE EYE INJURY. SKIN: CAUSES BURNS. INGEST: MAY CAUSE SEV & PERM DMG TO DIGESTIVE TRACT. CAUSES GI TRACT BURNS. INHAL: HARMFUL IF INHALED. MAY CAUSE S EV IRRIT OF RESP TRACT W/SORE THROAT, COUGHING, SHORTNESS OF BRTH & DELAYED LUNG EDEMA. MAY CAUSE MUC (EFTS OF OVEREXP)

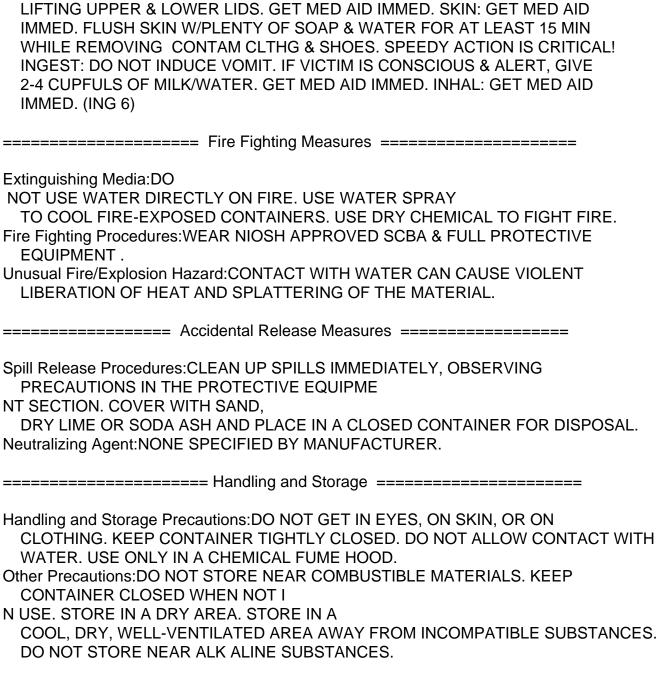
Explanation of Carcinogenicity:SULFURIC ACID: IARC MONO ON EVAL OF

CARCIN RISK OF CHEMICALS TO MAN, VOL 54, PG 41, 1992: GROUP 1. ANIMAL: PULM IRRIT.

Effects of Overexposure:HLTH HAZ: MEMB BURNS. CHRONIC: PRLNG/RPTD INHAL MAY CAUSE NOSEBLEEDS, NASAL CONGESTION, EROSION OF TEETH, PERFORATION OF NASAL SEPTUM, CHEST PAIN & BRONCHITIS. PRLNG/RPTD EYE CONT MAY CAUSE CONJUNCTIV ITIS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:EYES: FLUSH W



/PLENTY OF WATER FOR AT LEAST 15 MIN, OCCAS

====== Exposure Controls/Personal Protection ========

Respiratory Protection: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134. ALWAYS USE A NIOSH APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE PROCESS ENCLOSURE, LOC EXHAUST VENT/OTHER ENGINEERING CTLS TO CONTROL AIRBORNE LEVELS BELOW REC EXPOS LIMI

TS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGG (ING 8)

Other Protective Equipment: ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER. WEAR APPROP PROT CLOTHING TO MINIMIZE CONTACT W/SKIN.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Supplemental Safety and Health

PH: 0.3 (1N SOLN). MATLS TO AVOID: ACROLEIN, ACRYLONITRILE, ALCOHOLS + HYDROGEN PEROXIDE, ALLYL ALCOHOL, ALLYL CHLORIDE,

2-AMINOETHANOL,

AMMONIUM HYDROXIDE, AMMONIUM TRIPERCHROMATE, ANILINE, BROMATES + METALS, BROMINE PENTAFLUORIDE, N-BUTYRALDEHYDE, CARBIDES, CESIUM ACETYLENE CARBIDE, CHLORATES, (ING 2)

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

Boiling Pt:B.P. Text:554F,290C Melt/Freeze Pt:M.P/F.P Text:50.6F,10.3C Vapor Pres: