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FISHER SCIENTIFIC COMPANY -- A-144 HYDROCHLORIC ACID -- 6810-00-237-2955

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

Product ID:A-144 HYDROCHLORIC ACID

MSDS Date:02/20/1992

FSC:6810

NIIN:00-237-2955

MSDS Number: BDLZB === Responsible Party ===

Company Name: FISHER SCIENTIFIC COMPANY

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100 Emergency Phone Num:201-796-7

100 OR 201-796-7523

CAGE: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: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000 OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER

CAS:7732

-18-5 RTECS #:ZC0110000 Fraction by Wt: 62-65% OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name: CNDTNS (STAB): POISONOUS GASES MAY ACCUMULATE IN TANKS AND HOPPER CARS. MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL, ETC.). RTECS #:9999992Z

Ingred Name:EFTS OF OVEREXP:EVEN ON BRIEF EXPOS. REPROD EFTS HAVE BEEN RPTD IN ANIMALS. SKIN CNTCT:CNTCT MAY CAUSE SEV IRRIT,(ING 5 RTECS #:9999992Z

Ingred Name:ING 4:INFLAMM, ULCERATION, NECROSIS & CHEM BURNS. SHOCK SYMPS MAY DEVELOP INCL RAPID PULSE, SWEA TING & COLLAPSE.(ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:PHOTOSENSITIZATION RXNS MAY OCCUR IN PERS PREVIOUSLY EXPOS. CNTCT W/COMPRESSED GAS MAY CAUSE FROSTBITE. (ING 7) RTECS #:9999999ZZ

Ingred Name:ING 6:EYE CNTCT:CNTCT MAY CAUSE SEV IRRIT. CONJ, CORNEAL NECROSIS & BURNS W/IMPAIRMENT/PERM LOSS OF VISION. (ING 8) RTECS #:9999992Z

Ingred Name:ING 7:A DROP OF HYDROCHLORIC ACID SPLASHED IN EYE & IMMED WASHED OUT HAS PRODUCED WHITE COAGULATION OF CORNEAL (ING 9) RTECS #:9999999ZZ

Ingred Name:ING 8:& CONJ EPITHELIUM. ANIMALS EXPOS TO VAP CONC OF 1350 PPM FOR ONE & A HALF HRS SHOWED CLOUDING OF CORNEA & (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:300 PPM FOR 6 HRS SHOWED SLIGHT EROSION OF CORNEAL EPITHELIUM. CNTCT W/COMPRESSED GAS MAY CAUSE FROSTBITE.(ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:INGEST:CORR. INGEST OF ACID MAY CAUSE BURNS OF MOUTH, THROAT, ESOPHAGUS & STOMACH W/CONSEQUENT PAIN, (ING 12) RTECS #:9999999ZZ

Ingred Name: ING 11: UNEASINESS, NAUS

EA, SALIVATION, VOMIT, DIARR, CHILLS, SHOCK & INTENSE THIRST. NEPHRITIS, FEVER & (ING 13) RTECS #:9999992Z

Ingred Name:ING 12:PERFORATION OF INTESTINAL TRACT, & CIRCULATORY COLLAPSE MAY OCCUR. DEATH MAY BE DUE TO ESOPHAGEAL OR (ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13:GASTRIC NECROSIS. CHRONIC:INHAL:RPTD/PRLNG EXPOS MAY CAUSE EROSION & DISCOLORATION OF EXPOSED TEETH, (ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:CHRONIC BRONCHITIS & GASTRITIS. SKIN CNTCT:RPTD/PRLNG CNTCT
W/VAP/DILUTE SOLNS MAY CAUSE DERMATITIS.
(ING 16)
RTECS #:9999997ZZ

Ingred Name:ING 15:PHOTOSENSITIZATION MAY OCCUR. EYE:ANIMALS EXPOS TO VAP AT 100 PPM FOR 6 HRS DAILY FOR 50 DAYS SHOWED (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:ONLY SLIGHT UNREST & IRRIT OF EYES, BUT NO OCULAR INJURY. EFTS ARE DEPENDENT UPON CONC & DURATION OF (ING 18) RTECS #:9999992Z

Ingred Name:ING 17:EXPOS. CONJ/EFTS SIMILAR TO THOSE FOR ACUTE EXPOS MAY OCCUR. TOX:LOCAL EFTS:CORROSIVE-INHAL, SKIN, E YE & INGEST.
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:AMTS OF H*20 UNTIL NO EVID OF CHEM REMAINS (AT LEAST 15-20 MIN). IN CASE OF CHEM BURNS, COVER (ING 20) RTECS #:9999992Z

Ingred Name:ING 19:AREA W/STERILE, DRY DRESSING. BANDAGE SECURELY, BUT NOT TOO TIGHTLY. GET MED ATTN IMMED. EYE:WASH IMMED (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20:W/LRG AMTS OF H*2O, OCCAS LIFTING UPPER & LOWER LIDS, UNTIL NO EVID OF CHEM REMAINS (AT LEAST 15-20 MIN).(ING 22) RTECS #:9999992Z

Ingr

ed Name:ING 21:COVER W/STERILE BANDAGES. GET MED ATTN IMMED.
INGEST:DO NOT USE GASTRIC LAVAGE/EMESIS. DILUTE ACID IMMED (ING 23)
RTECS #:9999992Z

Ingred Name:ING 22:BY DRINKING LRG QTIES OF H*2O/MILK. IF VOMIT PERSIST, ADMIN FLUIDS REPEATEDLY. INGESTED ACID MUST BE (ING 24) RTECS #:9999992Z

Ingred Name:ING 23:DILUTED APPROX 100 FOLD TO RENDER IT HARMLESS TO TISS. MAINTAIN AIRWAY & TREAT SHOCK. GET MED ATTN IMMED.(ING 25) RTECS #:9999992Z

Ingred Name: ING 24: IF VOMIT OCCURS, KEEP HEAD BELOW HIPS TO HELP PVNT ASPIR. ANTIDOTE:NONE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. RTECS #:9999999ZZ ============ Hazards Identification ========================= Effects of Overexposure: PULMONARY EDEMA & OF TEN LARYNGEAL SPASM. CAUSES SKIN & EYE BURNS.NOSE & THROAT IRRIT. First Aid:INHAL:RMV TO FRESH AIR.GIVE ARTF RESP IF NOT BRTHG.CALL DR.EYES:FLUSH W/PLENTY OF H2O FOR @ LEAT 15 MIN. CALL DR.SKIN FLUSH W/PLENTY OF H2O FOR @ LEAST 15 MIN.CALL DR.RMV CONTAM CLTHG & WASH BEFORE R EUSE.INGEST:DONT GIVE EMETICS.GIVE(SEE SUPP DATA) ============ Fire Fighting Measures ========================= Flash Point:NOT FLAMM Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR Fire Fighting Procedures: USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP. MOVE CNTNR FROM FIRE AREA IF IT CAN BE DONE W/O UT RISK, APPLY COOLING WATER TO SIDES OF CNTNRS THAT (SUPDAT) Unusual Fire/Explosion Hazard: NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

Spill Release Procedures:COVER CONTAM SURF W/SODA ASH & SLAKED LIME MIXTURE (50-50).MIX & ADD H2O IF NECESS TO FORM A SLURRY.SCOOP UP SLURRY & WASH DOWN THE DRAIN W/EXCESS H2O.WASH SITE W/SODA ASH SOLUTION.

======== Accidental Release Measures ============

======== Handling and Storage ========

========= Handling and Storage Precautions: STORE IN COOL PLACE OUT OF DIRECT SUNLIGHT. STORE IN WELL VENTILATED AREA. KEEP TIGHTLY CAPPED. CORROSIVE. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: NIOSH/MSHA APPRVD INDL GAS CANISTER FOR ABSORBING HCL GAS. Ventilation:LOCAL EXHAUST & MECHANICAL (GENL) FUME HOOD VENT. Protective Gloves: RUBBER GLOVES Eye Protection: SFTY GOGGLES/FACE SHIELD Other Protective Equipment: RUBBER APRON, EYE WASH Supplemental Safety and Health VAP PRESS:4.0 @ 17.8C. MELTING PT:-27C. EMER & FIRST AID PROC: TAP H2O, MILK OR MILK OF MAGNESIA. GIVE EGG WHITES BEATEN W/H2O. CALL DR. ======== Physical/Chemical Properties =========== HCC:C1 Boiling Pt:B.P. Text:384F,196C Vapor Density:1.3 Spec Gravity:1.19 pH:1.1 Solubility in Water:SOLUBLE Appearance and Odor: COLORLESS OR SLIGHTLY YELLOW FUMING LIQUID WITH A PUNGENT ODOR. ======= Stability and Reactivity Data ====== ======== Stability Indicator/Materials to Avoid:YES CNTCT W/COMMON METALS PRDCES HYDROGEN WHICH MAY FORM EXPLO MIX W/AIR.

CNTCT W/COMMON METALS PRDCES HYDROGEN WHICH MAY FORM EXPLO MIX W/AIR INCOMPAT:ACETIC ANHYDRIDE, ALCOHOLIC (SUPDAT)

Stability Condition to Avoid:REACTS EXOTHERMICALLY WITH WATER OR STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES.

Hazardous Decomposition Products: HYDROGEN CHLORIDE FUMES.

======= Disposal Considerations ============

Waste Disposal Methods:DISPOSE OF BY MEANS AS TO COMPLY W/ALL LOCAL,STATE & FEDER

AL REGULATIONS OR CONTACT AN APPRVD & LICENSED DISPOSAL AGENCY..

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