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FISHER SCIENTIFIC, CHEMICAL DIV. -- A466 HYDROCHLORIC ACID,CONCENTRATED 36-37% -- 6810-01-340-5178

Product ID:A466 HYDROCHLORIC ACID, CONCENTRATED 36-37% MSDS Date:01/29/1996 FSC:6810 NIIN:01-340-5178 MSDS Number: BNRVC === Responsible Party === Company Name: FISHER SCIENTIFIC, CHEMICAL DIV. Address:1 REAGENT LANE **City:FAIR LAWN** State:NJ ZIP:07410 Country:US Info P hone Num:201-796-7100 OR 201-796-7523 Emergency Phone Num:201-796-7100/800-424-9300(CHEMTREC) CAGE:1B464 === Contractor Identification === Company Name: DAIGGER A AND CO INC Address:620 LAKEVIEW PKY Box:City:ALSIP State:IL ZIP:60803 Country:US Phone:847-816-5060 CAGE:15747 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 Company Name: FISHER SCIENTIFIC COMPANY Address:52 FADEM ROAD.DOMESTI

C DIVISION City:SPRINGFIELD State:NJ ZIP:07081 Country:US Phone:201-796-7100 CAGE:94480

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA 302/313) (CERCLA) CAS:7647-01-0 RTECS #:MW4025000 Fraction by Wt: 36-38% Other REC Limits:NONE RECOMMENDED OSHA PEL:C 5 PPM ACGIH TLV:C 5 PPM; 9495 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: BALANCE Other REC Limit s:NONE RECOMMENDED

LD50 LC50 Mixture:LD50 (ORAL RABBIT) IS 900 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE-EYES: SEVERE IRRITATION, PAINFUL BURNS. SKIN: SEVERE BURNS. INHALATION: ULCERATION OF NOSE, THROAT, LARYNX. INGESTION: SEVERE BURNS OF MUCOUS MEMBRANE OF MOUTH, ESOPHAGUS, STOMACH. CHRONIC-EYES : PE RMANENT VISUAL IMPAIRMENT, TOTAL LOSS OF SIGHT. SKIN: DERMATITIS. INHALATION: EDEMA OF LUNGS. Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN. Effects of Overexposure:EYES:PAINFUL BURNS. SKIN:SEVERE BURNS.

INHALATION:COUGHING,BURNING OF THROAT,CHOKING SENSATION. INGESTION:LIPS AND MOUTH USUALLY TURN WHITE,AND LATER BROWN.PAIN IN THE THROAT AND STOMACH,DIFFICULTY IN SWALLOWING,INTENSE THIRST,NAUSEA AND V OMITING, FOLLOWED BY DIARRHEA, IN SEVERE CASES BY COLLAPSE AND UNCONSCIOUSNESS. Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING DISEASE INVOLVING SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDI CAL ATTENTION.

SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHI

- NG APPARATUS. COOL FIRE EXPOSED
- CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. CORROSIVE VAPORS. FIGHT FIRE FROM DISTANCE.

Spill Release Procedures:WEAR SCBA AND PROTECTIVE CLOTHING.NEUTRALIZE WITH LIME,SODA ASH OR LIMESTONE SOLUTIONS.NEUTRALIZATION WILL EVOLVE CARBON DIOXIDE.IN ENCLOSED SPACES,PROVIDE AMPLE

VENTILATION.ABSORB IN INERT MATERIAL, A ND PLACE IN APPROPIATE DISPOSAL CONTAINER. Neutralizing Agent:LIME(CALCIUM HYDROXIDE),SODA ASH(SODIUM

CARBONATE), LIMESTONE (CALCIUM CARBONATE).

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVO ID

PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

Respiratory Protection: POWERED AIR-PURIFYING RESPIRATOR WITH AN ACID GAS CARTRIDGE OR SELF-CONTAINED BREATHING APPARATUS AS REQUIRED FOR THE EXPOSURE OF CONCERN.

Ventilation: GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN ENCLOSED AREAS.

Protec

tive Gloves:RUBBER, PVC.

Eye Protection: CHEMICAL GOGGLES AND/OR FULL FACE SHIELD

Other Protective Equipment: IMPERVIOUS CLOTHING, FOOTWEAR AND HEAD GEAR. EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

HCC:C1 Boiling Pt:=195.6C, 384.F Vapor Density:1.3 Spec Gravity:1.2 pH:1@0.1N Solubility in Water:COMPLETE. Appearance and Odor:COLORLESS OR SLIGHTLY YELLOW FUMING LIQUID WITH A PUNGENT ODOR. Percent Volatiles by Volume:36

Stability Indicator/Materials to Avoid:YES WATER AND METALS PRODUCE EXPLOSIVE HYDROGEN GAS, STRONG OXIDIZING AGENTS MAY CAUSE VIOLENT REACTION AND IGNIT ION. Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products: POISONOUS CHLORINE GAS.

Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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