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MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- HYDROCHLORIC ACID,37% 6810-00-753-4786 Product ID: HYDROCHLORIC ACID, 37% MSDS Date:12/08/1995 FSC:6810 NIIN:00-753-4786 MSDS Number: CDMMR === Responsible Party === Company Name: MALLINCKRODT INC SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Info Phone Num:314-982-5000 Emergency Phone Num:314-982-5000 CAGE:62910 === Contractor Identification === Company Name: MALLINCKRODT SPECIALTY CHEMICALS CO Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:908-859-2151 CAGE:62910 Company Name:SCIENCE KIT INC Address:777 E PARK DR Box:City:TONAWANDA State:NY ZIP:14150-6708 Country:US Phone:716-874-6020 CAGE:57020

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

Ingred Name: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA

302/313) (CERCLA) CAS:7647-01-0 RTECS #:MW4025000 Fraction by Wt: 37% Other REC Limits:NONE SPECIFIED **OSHA PEL:C 5 PPM** ACGIH TLV:C 5 PPM; 9596 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS 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: PERMANE NT VISUAL IMPAIRMENT, TOTAL LOSS OF SIGHT. SKIN: DERMATITIS. INHALATION: EROSION OF TEETH.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 THR OAT, CHOKING SENSATION. INGESTION:LIPS AND MOUTH USUALLY TURN WHITE, AND LATER BROWN.PAIN IN THE THROAT AND STOMACH, DIFFICULTY I N SWALLOWING, INTENSE THIRST, NAUSEA AND VOMITING, 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:IN

HALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING .WASH WITH SOAP AND WATER.IF IRRITATIONPERSISTS,SEE DOCTOR. INGESTION:DO NOT INDUCE VOMITING.GIVE LARGE QUANTITIES OF WATER OR MILK.GET IMMMEDIATE MEDICAL ATTENTION.NOTHING BY MOUTH IF UNCONSCIOUS.

Flash Po

int:NONE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:USE WATER SPRAY.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.
Unusual Fire/Explosion Hazard:CAN REACT WITH METAL TO RELEASE FLAMMABLE AND EXPLOSIVE HYDROGEN GAS. CONTAINERS MAY BURST ON HEAT OF FIRE.

Spill R

elease 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 FROM PHYSICAL DAMAGE AND DIRECT SUNLIGHT.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection: POWERED AIR-PURIFYING RESPIRATOR WI TH AN ACID

GAS CARTRIDGE OR SELF-CONTAINED BREATHING APPARATUS AS REQUIRED FOR THE EXPOSURE OF CONCERN.

Ventilation: GENERAL (MECHANICAL) AND/OR LOCAL EXHAUST VENTILATION. LOCAL EXHAUST IS PREFERRED.

Protective Gloves: RUBBER, NEOPRENE.

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 PR

OCEDURES. 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:B.P. Text:127F,53C Melt/Freeze Pt:M.P/F.P Text:-101F,-74C Vapor Pres:190 Vapor Density:NOT GIVEN Spec Gravity:1.18 Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:INFINITE IN WATER Appearance and Odo r:CLEAR, COLORLESS, FUMING LIQUID. Percent Volatiles by Volume:100 %

Stability Indicator/Materials to Avoid:YES STRONG BASES, METALS, METAL OXIDES, HYDROXIDES, AMINES, CARBONATES, CYANIDES, SULFIDES, SULFITES, FORMALDEHYDE. Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES. Hazardous Decomposition Products:HYDROGEN CHLORIDE FUMES WHEN HEATED. WILL REACT WITH WATER TO PRODUCE HEAT AND TOXIC AND CORROSIVE FUMES.

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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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