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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

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 TH ROAT, 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:I

NHALATION: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 P

oint: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

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 COO

L, 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 W ITH 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 P

ROCEDURES. 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 Od or: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.

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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