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MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- HYDROCHLORIC ACID,37%

6810-00-753-4786

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

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
============ Hazards Identification =============
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.
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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. ======== Accidental Release Measures ============ 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 =============== 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.
========== Physical/Chemical Properties ===========
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 & Deference:NOT GIVEN Solubility in Water:INFINITE IN WATER Appearance and Odo r:CLEAR, COLORLESS, FUMING LIQUID. Percent Volatiles by Volume:100 %
========== Stability and Reactivity Data ===========
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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======== Disposal Considerations ============
Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER.DISPOSAL

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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