View NSN Online: https://aerobasegroup.com/nsn/6810-00-145-0477

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- HYDROCHLORIC ACID,37 %,37 W 2250 -- 6810-00-145-0477

Product ID:HYDROCHLORIC ACID,37 %,37 W 2250 MSDS Date:09/10/1986 FSC:6810 NIIN:00-145-0477 MSDS Number: BJRBP === Responsible Party === Company Name: MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Inf o Phone Num:800-354-2050/314-982-5000 Emergency Phone Num:800-354-2050/314-982-5000 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: WARDS NATURAL SCIENCE ESTABLISHMENT INC Address:5100 W HENRIETTA RD Box:92912 **City:ROCHESTER** State:NY ZIP:14692-9012 Country:US Phone:(716) 359-2502 CAGE:63759

======= 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 RECOMMENDED **OSHA PEL:C 5 PPM** ACGIH TLV:C 5 PPM; 9495 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS LD50 LC50 Mixture:LD50 (ORAL,RAT):900 MG/KG (CONCENTRATED) Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: TARGET ORGANS: EYES, SKIN, TEETH, **RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE. INHALE: MAY CAUSE** INFLAMMATION, CHOCKING, COUGHING, LUNG DAMGE. EYE/SKIN:SEVERE BURNS. MAY CAUSE PERMANENT EYE DAMAGE. ORAL: I MMEDIATE PAIN & BURNS OF MOUTH, THROAT, ESOPHAGUS & GI TRACT. MAY BE FATAL. CHRONIC-EROSION OF TEETH. Explanation of Carcinogenicity:NONE Effects of Overexposure: IRRITATION, BURNS, COUGHING, DIFFICULT BREATHING, CHEST PAIN, ABDOMINAL PAIN, NAUSEA, VOMITING, DENTAL EROSION, CHOCKING, SKIN REDNESS OR DISCOLORATION, DEEP ULCERATION, EYE DAMAGE, DEATH Medical Cond Aggravated by Exposure: DAMAGED SKIN, EYE DISORDERS, LUNG/RESPIRATORY SYSTEM DISEASES 

First Aid:GET MEDICAL CARE IMMEDIATELY IN ALL CASES. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. KEEP EYELIDS OPEN. TREAT FOR CHEMICAL BURNS IF NECESSARY. INHAL ATION:REMOVE TO FRESH AIR. PRO VIDE CPR/OXYGEN IF NEEDED. INGESTION:IFCONSCIOUS, DRINK LARGE AMOUNT OF MILK/WATER. DO NOT INDUCE VOMITING.

Flash Point:NONE

Extinguishing Media:USE WATER SPRAY. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE. REACTS WITH MOST METALS FORMING HYDROGEN WHICH CAN EXPLODE.

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. REMOVE IGNITION SOURCES (H2 MAY BE PRESENT). DO NOT RELEASE INTO SOIL, SEWER. NEUTRALIZE WITH SODA ASH/SODIUM BICARBONATE. USE AN ABSORBENT SUCH AS SA ND/VERMICULITE ON SLURRY. TRANSFER TO CONTAINER. Neutralizing Agent:S

ODA ASH, LIME, SODIUM BICARBONATE

Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED, CORROSION-PROOF AREA, AWAY FROM SUNLIGHT, HEAT, COMBUSTIBLES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:DANGER! STRONG ACID. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID BREATHING VAPORS/MIST. USE UNDER THE HOOD WITH ADEQUATE VENTILATION. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE.

=====

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

Respiratory Protection: USE NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH) APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDED.

Ventilation:PROVIDE GENERAL VENTILATION OR LOCAL EXHAUST TO MEET OSHA PERMISSIBLE EXPOSURE LIMITS (OSHA PEL).

Protective Gloves: PVC, NEOPRENE

Eye Protection:CHEMICAL SAFETY GOGGLES AND FACE SHIELD Other Pro

tective Equipment: USE RUBBER SPLASH APRON AND RUBBER BOOTS. EYEWASH AND SAFETY SHOWER SHOULD BE LOCATED NEARBY. Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health NOTE TO PHYSICIAN: WASH AFFECTED SKIN AREAS WITH A 5% SOLUTION OF SODIUM BICARBONATE. IF INGESTED, THE RISK VERSUS THE BENEFIT OF THE PASSAGE OF A NASO-GASTRIC TUBE IS DEBATABLE. ACTIVATED CHARCOAL IS OF NO VALU E. DO NOT GIVE THE EXPOSED PERSON BICARBONATE TO NEUTRALIZE THE MATERIAL. HCC:C1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:228F,109C Melt/Freeze Pt:M.P/F.P Text:-101F,-74C Vapor Pres:190 @ 77F Spec Gravity:1.18 Solubility in Water:INFINITE Appearance and Odor: CLEAR, COLORLESS FUMING LIQUID; PUNGENT ODOR Stability Indicator/Materials to Avoid:Y ES STRONG BASES, ALCOHOLS, CYANIDES, METALS, METAL OXIDES, HYDROXIDES, AMINES, CARBIDES, CARBONATES, FORMALDEHYDE, SULFIDES Stability Condition to Avoid: EXCESSIVE HEAT, DIRECT SUNLIGHT, MOISTURE Hazardous Decomposition Products: EMITS HYDROGEN CHLORIDE VAPORS OR GAS. Waste Disposal Methods: OBSERVE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATORS FOR PROPER DISPOSAL. CONSIDER RECYCLING. KEEP COMBUSTIBLES AWAY FROM S PILLED MATERIAL. REPORTABLE QUANTITY (RQ) IS 5000 POUNDS, NEUTRALIZED SL URRY MAY BE FLUSHED TO SEWER WITH WATERIF ALLOWED Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this

document should seek com

petent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.