

MALLINCRODT INC -- HYDROCHLORIC ACID,37% -- 6810-00-753-4786

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

Product ID:HYDROCHLORIC ACID,37%

MSDS Date:09/10/1986

FSC:6810

NIIN:00-753-4786

MSDS Number: BJS GS

=== Responsible Party ===

Company Name:MALLINCRODT INC

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:EO163

=== Contractor Identificat

ion ===

Company Name:MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:1BF21

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:MALLINCRODT INC

Box:M

City:PARIS

State:KY

ZIP:40361-0315

Country:US

Phone:314-982-5000

CAGE:EO163

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

Ingred Name:HYDR

OGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

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; 9192

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: PERMANENT 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

N: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 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 Measures =====

=====

First Aid:INHALATION: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 IMMEDIATE MEDICAL ATTENTION.NOTHING BY MOUTH IF UNCONSCIOUS.

===== Fire Fighting Measures =====

=====

Flash Point:NONE
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 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,AND PLACE IN APPROPRIATE 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 WITH 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 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.

===== 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:1.26
Spec Gravity:1.18
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR, COLORLESS, FUMING LIQUID.

===== 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.

===== Disposal Considerations =====

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

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 co

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