

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- HYDROCHLORIC ACID, 37% --
6810-01-145-8100

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

Product ID:HYDROCHLORIC ACID, 37%
MSDS Date:10/11/1995
FSC:6810
NIIN:01-145-8100
MSDS Number: BYTLL
=== 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

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

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)
CAS:7647-01-0
RTECS #:MW4025000
Fraction by Wt: 100%
OSHA PEL:C 5 PPM
ACGIH TLV:C 5 PPM; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty

ION HAZARD.

===== Accidental Release Measures =====

Spill Release Procedures:SMALL SPILL: FLUSH WITH WATER AND NEUTRALIZE WITH ALKALINE MATERIAL. SEWER NEUTRALIZED MATERIAL WITH EXCESS WATER. LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUN OFF. NEUTRALIZE & PICK UP WITH ABSORBENT MATERIAL.

Neutralizing Agent:SODA ASH, LIME OR OTHER SUITABLE ALKALINE MATERIAL.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE & 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:IF THE TLV ES EXCEEDED A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN. ALTERNATIVELY, A SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD MAY BE WORN.

Ventilation:A SYSTEM OF LOCAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE TLV.

Protective Gloves:NEOPRENE OR RUBBER GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

IMPERVIOUS BOOTS, A PRON, OR COVERALLS AS REQUIRED.

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. PROTECT FROM MOISTURE.

===== 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

@ 25C

Spec Gravity:1.18

Solubility in Water:INFINITE IN WATER

Appearance and Odor:CLEAR, COLORLESS FUMING LIQUID. PUNGENT ODOR OF HYDROGEN CHLORIDE.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG BASES, METALS, METAL OXIDES, HYDROXIDES, AMINES, CARBONATES & OTHER ALKALINE MATERIALS. CYANIDES, SULFIDES.

Stability Condition to Avoid:CONTAINERS MAY BURST WHEN HEATED.

Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION, EMITS

TOXIC HYDROGEN CHLORIDE FUMES. WILL REACT WITH WATER TO PRODUCE HEAT & TOXIC FUMES.

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

Waste Disposal Methods:DISPOSE IN A RCRA-APPROVED WASTE FACILITY OR SEWER THE NEUTRALIZED SLURRY WITH EXCESS WATER IF LOCAL ORDINANCES ALLOW. REPORTABLE QUANTITY: 5000 LBS. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL 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 competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.