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MALLINCKRODT BAKER, INC. -- HYDROCHLORIC ACID, 33-40%, 9535 -- 6810-00-237-2955

Product ID:HYDROCHLORIC ACID, 33-40%, 9535

MSDS Date:12/08/1996

FSC:6810

NIIN:00-237-2955 Status Code:A

MSDS Number: CKJMJ === Responsible Party ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Info Phone Num:800-58

2-2537

Emergency Phone Num:908-859-2151 Resp. Party Other MSDS Num.:H3880

Preparer's Name: STRATEGIC SERVICES DIV.

Chemtrec Ind/Phone:(800)424-9300

CAGE:70829

=== Contractor Identification ===

Company Name: MALLINCKRODT BAKER, INC.

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ ZIP:08865 Country:US

Phone:800-582-2537

CAGE:70829

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

Ingred Name: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0 RTECS #:MW402 5000

Minumum % Wt:33.

Maxumum % Wt:40.

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:60.

Maxumum % Wt:67.

Other REC Limits: NONE SPECIFIED

============= Hazards Identification ========================

LD50 LC50 Mixture:ORAL LD50 (RABBIT): 900 MG/KG(ACID CONC)

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: CORROSIVE! VAPORS ARE IRRITATING AND MAY CAUSE EYE DAMAGE. CONTACT MAY CAUSE SEVERE BURNS AND PERMANENT DAMAGE. SKIN: CORROSIVE! CAN CAUSE REDNESS, PAIN, SEVERE SKIN BURNS. CONCENTRATED S OLUTIONS CAUSE DEEP ULCERS AND DISCOLORSKIN. INHALATION: CORROSIVE! VAPORS CAN CAUSE COUGHING, CHOKING, INFLAMMATION OF NOSE, THROAT, UPPER RESPIRATORY TRACT, IN SEVERE CASES, PULMONARY EDEMA, CIRCULA TORY FAILURE, DEATH. INGES

TION: CORROSIVE! CAN CAUSE PAIN AND BURNS OF MOUTH, THROAT, ESOPHAGUS, GI TRACT. MAY CAUSE NAUSEA, VOMITING, DIARRHEA. MAY BE FATAL. CHRONIC: LONG TERM EXPOSURE TO CONCENTRAT ED VAPORS MAY CAUSE ERROSION OF TEETH.

Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP, IARC OR OSHA.

Effects of Overexposure:EYES: IRRITATION, BURNS, DAMAGE. SKIN: IRRITATION, REDNESS, BURNS, ULCERS, DISCOLORED SKIN. IHHALATION: COUGHING,

CHOCKING, INFLAMMATION OF NOSE, THROAT, , UPPER RESPIRATORY TRACT, PULMONARY EDEMA, C IRCULATORY FAILURE, DEATH. INGESTION: PAIN AND BURNS OF MOUTH, THROAT, ESOPHAGUS, GASTROINTESTINAL TRACT. NAUSEA, VOMITING, DIARRHEA, DEATH.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:EYES: FLUSH WITH PLEN

TY OF WATER FOR 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION. SKIN: FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTA MINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. CLEAN SHOES BEFORE REUSE. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE LARG E QUANTITIES	
OF WATER OR MILK IF AVAILABLE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICA L ATTENTION.	
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Flash Point:NONE Extinguishing Media:IF INVOLVED IN A FIRE, USE SPRAY. NEUTRALIZE WITH SODA ASH OR SLAKED LIME. Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. STRUCTURAL FIREFIGHTER'S PROTECTIVE CLOTHING IS INEFFECTIVE FOR FIRES INVOLVING HYDROCHLORIC ACID. COOL TANKS WITH WATER SPRAY UNTIL WELL AFTER FIRE IS OUT. Junual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSIVE HAZARD.	
Spill Release Procedures: VENTILATE AREA. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. CONTAIN AND RECOVER LIQUID. NEUTRALIZE WITH SODA ASH, LIME, ABSORB WITH INER MATERIAL (VERMICULITE, DRY SAND, EARTH), AND PLACE IN WAST E CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS. DO NOT FLUSH TO SEWER! US REGULATIONS (CERCLA), (800) 424-8802, REQUIRE REPORTING SPILLS TO SOIL, WATER, AIR IN EXCESS OF	

Neutralizing Agent:SODA ASH, LIME.

Handling and Storage Precautions:STORE IN A COOL, DRY, VENTILATED AREA WITH ACID RESISTANT FLOORS AND GOOD DRAINAGE. PROTE

CT FROM PHYSICAL

DAMAGE. KEEP OUT OF DIRECT SUNLIGHT AND AWAY FROM HEAT, WATER, AND INCOMPATIBLE MATERIALS. DO NOT WASH OUT CONTAINER AND USE IT FOR OTHER PURPOSES.

Other Precautions:WHEN DILUTING, THE ACID SHOULD ALWAYS BE ADDED SLOWLY TO WATER AND IN SMALL AMOUNTS. NEVER USE HOT WATER AND NEVER ADD WATER TO THE ACID. WATER ADDED TO ACID CAN CAUSE UNCONTROLLED BOILING AND SPLASHI NG. WHEN OPENING METAL CONTAINERS, USE NON-SPARKING TOOLS BECAUSE OF THE POSSIBILITY OF

HYDROGEN GAS

BEING PRESENT.

=========	Exposure Controls/Personal Protection	=========
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Respiratory Protection:IF EXPOSURE LIMIT EXCEEDED, A FULL FACEPIECE RESPIRATOR WITH ACID GAS CARTRIDGE MAY BE WORN UP TO 50 TIMES EXPOSURE LIMIT OR MAXIMUM USE CONCENTRATION SPECIFIED BY REGULATORY AGENCY OR SUPPLIER, WHIC HEVER IS LOWEST. FOR EMERGENCIES OR INSTANCES WHERE EXPOSURE LEVELS ARE NOT KNOWN, USE FULL-FACEPIECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR.

Ventila

tion: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EXPOSURES BELOW THEAIRBORNE EXPOSURE LIMITS.

Protective Gloves: RUBBER OR NEOPRENE GLOVES RECOMMENDED.

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE.

Other Protective Equipment:IMPERVIOUS BOOTS, APRON, OR COVERALLS AS NEEDED. PROVIDE A EYE WASH STATION AND A SAFETY SHOWER IN WORK AREA.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAU

NDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health

WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

======== Physical/Chemical Properties ===========

HCC:C1

Boiling Pt:=108.9C, 228.F

B.P. Text:20.2%

Melt/Freeze Pt:=-73.7C, -101.F Vapor Pres:190 @ 25C (77F) Vapor Density:NOT KNOWN

Spec Gravity:1.18 pH:0.1 @(1.0 N)

Solubility in Water: COMPLETE

Appearance and Odor: COLORLESS, FUMING LIQU

ID WITH PUNGENT ODOR OF HYDROGEN CHLORIDE Percent Volatiles by Volume:100
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG BASES, METALS, METAL OXIDES, HYDROXIDES, AMINES, CARBONATES, AND OTHER ALKALINE MATERIALS. ALSO INCOMPATIBLE WITH MATERIALS SUCH AS CYANIDES, SULFIDES, SULFITES, AND FORMALDEHYDE. Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. CONTAINERS MAY BURST WHEN HEATED.HEAT, DIRECT SUNLIGHT.
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCES TOXIC CHLORINE FUMES AND EXPLOSIVE HYDROGEN GAS. ALSO TOXIC HYDROGEN CHLORIDE FUMES AND WILL REACT WITH WATER OR STEAM TO PRODUCE HEAT AND TOXIC AND CORROSIVE FUMES. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========= Toxicological Information ==========
Toxicological Information:INHALATION RAT LC50: 3124 PPM/LH; ORAL RABBIT LD50: 900 MG/KG (HYDROCHLORI C ACID CONCENTRATED); INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR. CANCER LISTS: NOT LISTED BY NTP OR IARC.
======== Ecological Information ==========
Ecological:ENVIRONMENTAL FATE: WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS NOT EXPECTED TO BIODEGRADE. WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY LEACH INTO GROUND WATER. ENVIRONMENTAL TOXICITY: THIS MATER IAL IS EXPECTED TO BE TOXIC TO AQUATIC LIFE.
======== Dispo sal Considerations ============
Waste Disposal Methods:SEND WASTE TO A RCRA APPROVED WASTE FACILITY. PROCESSING, USE, CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISP OSAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LO CAL REQUIREMENTS.
======== MSDS Transport Information ==========
Transport Information:DO

MESTIC (LAND, D.O.T.): PROPER SHIPPING NAME:
HYDROCHLORIC ACID, CLASS 8, UN 1789, PKG I I, INFORMATION REPORTED
FOR PRODUCT/SIZE: 475 LBS. INTERNATIONAL (WATER, I.M.O.): PROPER
SHIPPING NAME: HYDROC HLORIC ACID, CLASS 8, UN 1789, PKG II,
INFORMATION REPORTED FOR PRODUCT/SIZE: 475 LBS.

======== Regulatory Information ============

SARA Title III Information:SECTION 302: HYDROGEN CHLORIDE (CAS# 7647-01-0): RQ=5000; TPQ=500. SECTION 313: HYDROGEN CHLORI DE (CAS#

7647-01-0): LIST YES; CHEMICAL CATG. NO. SARA 311/312: ACUTE: YES; CHRONIC:= YES; FIRE= NO; PR ESSURE= NO. REACTIVITY= NO; (MIXTURE/LIQUID):Federal Regulatory Information:HYDROGEN CHLORIDE (CAS# 7647-01-0): CERCLA= 5000; RCRA 261.33= NO; TSCA 8(D)= NO. CHEMICAL WEAPONS CONVENTION: NO. TSCA 12(B)= NO; CDTA= YES.

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mation 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.