

MALLINKRODT-BAKER (FORMALLY J.T. BAKER COMPANY) -- 5622 HYDROCHLORIC ACID, 0.5N VOLUMETRIC SOLUTION -- 6850-01-428-9322

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

Product ID:5622 HYDROCHLORIC ACID, 0.5N VOLUMETRIC SOLUTION  
MSDS Date:12/10/1994  
FSC:6850  
NIIN:01-428-9322  
MSDS Number: CFYTM  
=== Responsible Party ===  
Company Name:MALLINKRODT-BAKER (FORMALLY J.T. BAKER COMPANY)  
Address:222 RED SCHOOL LANE  
City:PHILLIPSBURG  
State:NJ  
ZIP:08865-2219  
Country:US  
Info Phone Num:800-582-2537 EXT 6501  
Emergency Phone Num:800-582-2537 EXT 6501  
CAGE:EO303  
=== Contractor Identification ===  
Company Name:MALLINKRODT BAKER, INC.  
Address:222 RED SCHOOL LANE  
Box:City:PHILLIPSBURG  
State:NJ  
ZIP:08865  
Country:US  
Phone:800-582-2537  
CAGE:70829  
Company Name:MALLINKRODT-BAKER (FORMALLY J.T. BAKER COMPANY)  
Address:222 RED SCHOOL LANE  
Box:NONE  
City:PHILLIPSBURG  
State:NJ  
ZIP:08865-2219  
Country:US  
Phone:800-582-2537 EXT 650  
1/908-859-2151  
CAGE:EO303

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

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA 302/313)  
(CERCLA)  
CAS:7647-01-0  
RTECS #:MW4025000  
Fraction by Wt: 1-2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 5 PPM  
ACGIH TLV:C 5 PPM; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 98-99%

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LD50 LC50 Mixture:ORAL RABBIT LD50 900 MG/KG FOR HCL  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHAL:SEVERE IRRIT OR BURNS OF  
RESPIRATORY SYSTEM,PULM EDEMA,LUNG INFLAMM,COUGHING,DIFFICULT  
BREATHING.SKIN/EYE CONTACT:SEVERE IRRIT.SKIN ABSORPTION:NONE  
IDENTIFIED.INGEST:IS HARMFUL & MAY BE FATAL.SE VERE BURNS TO  
MOUTH/THROAT/STOMACH,NAU,VOMITING.CHRONIC EFFEFT  
S:NONE IDENTIFIED.

Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NONE  
IDENTIFIED.

Effects of Overexposure:SEVERE IRRIT/BURNS OF RESPIRATORY SYSTEM,PULM  
EDEMA, LUNG INFLAMM,COUGHING,DIFFICULT BREATHING. SEVERE SKIN/EYE  
IRRIT, HARMFUL IF SWALLOWED, FATAL. SEVERE BURNS TO  
MOUTH/THROAT/STOMACH, NAUSEA, VOMITI NG.

Medical Cond Aggravated by Exposure:NONE IDENTIFIED. TARGET  
ORGANS:RESPIRATORY SYSTEM,EYES,SKIN.

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First Aid Measures  
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First Aid:INGEST:CALL PHYSICIAN.DONT INDUCE VOMIT.CONSC GIVE  
WATER,MILK,OR MILK OF MAGNESIA.INHAL:REMOVE TO FRESH AIR.NOT  
BREATHING GIVE ARTIFICIAL RESP.BREATHING DIFFICULT GIVE  
OXYGEN.PROMPT ACTION IS ESSENTIA L.SKIN:IMNED FLUSH SKIN W/PLENTY  
OF WATER FOR @LEAST 15MINS WHILE REMOVING CONTAM CLOTH/SHOES.WSH  
CLOTHING BEF REUSE.EYE:IMMED FLUSH W/PLENTY OF WATER FOT @LEAST  
15MINS.

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Fire Fighting Measures  
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Flash Point:NA  
Autoignition Temp:Autoignition Temp Text:NA  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING  
FIRE.  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE  
EQPMT & SELF-CONTAINED BREATHING APPARATUS W/FULL FACEPIECE  
OPERATED IN POSITIVE PRESSURE MODE.MOVE CNTNR FRM (SUPPL)  
Unusual Fire/Explosion Hazard:REACTS W/MOST METALS TO PRODUCE HYDROGEN  
GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE W/AIR.

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Accid

ental Release Measures =====

Spill Release Procedures:WEAR SELF-CONTAIN BREATH APPARATUS/FULL PROTECTIVE CLOTH.STOP LEAK W/O RISK.VENTILATE AREA.NEUTRALIZE SPILL W/SODA ASH OR LIME.W/CLEAN SHOVEL CAREFULLY PLACE MATL INTO CLEAN DRY CNTNR,COVER.REMOVE FRM AREA.FLUSH SPILL AREA W/H2O.JT BAKER (SUPPLEM)

Neutralizing Agent:SODA ASH OR LIME.JT BAKER NEUTRASORB OR TEAM LOW NA+ ACID NEUTRA RECOMMENDED.

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

Handling and Storage Precautions:KEEP CNTNR TIGHTLY CLOSED.SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA.ISOLATE FROM INCOMPATIBLE MATLS. Other Precautions:SAF-T-DATA STORAGE COLOR CODE:ORANGE(GENERAL STORAGE).

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

Respiratory Protection:NONE SPECIFIED BY MANUFACTURER.  
Ventilation:NONE SPECIFIED BY MANUFACTURER.  
Protective Gloves:NONE SPECIFIED BY MANUFACTURER.  
Eye Protection:NONE SPECIFIED BY MANUFACTURER.  
Other Prot  
ective Equipment:THIS IS LAB-USE PRODUCT FOR WHICH NO INDUSTRIAL PROT EPQMT HAS BEEN DESIGNATED.  
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.  
Supplemental Safety and Health  
PH:1.0(0.1M SOLN). FIREFIGHT:FIRE AREA W/O RISK.USE WATER TO KEEP FIRE-EXPO CNTNRS COOL. SPILL:NEUTRASORB OR TEAM LOW NA+ ACID NEUTRALIERS ARE RECOMMENDED FOR SPILLS OF THIS PROD.

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

HCC:C3  
Boiling Pt:B.P. Text:NA  
Melt/Freeze Pt:M.P/F.P  
Text:NA  
Decomp Temp:Decomp Text:NP  
Vapor Pres:NA  
Vapor Density:NA  
Spec Gravity:NA  
pH:SUPPLE  
Viscosity:NP  
Evaporation Rate & Reference:NA  
Solubility in Water:COMPLETE  
Appearance and Odor:LIQUID, CLEAR, COLORLESS LIQUID, HYDROCHLORIC ACID ODOR  
Percent Volatiles by Volume:100  
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES  
MOST COMMON METALS,STRONG BASES,CARBONATES,AMINES,SULFURIC ACID,CHLOROSULFONIC ACI

D,METAL OXIDES.

Stability Condition to Avoid:HEAT

Hazardous Decomposition Products:HYDROGEN CHLORIDE, HYDROGEN.

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

Waste Disposal Methods:CERCLA HAZ SUBSTANCE/SARA TOXIC CHEM.CONTAINS HYDROGEN CHLORIDE(RQ=1LB,TPQ=500LBS)DISPOSE IAW ALL APPLICABLE LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.EPA HAZ WASTE3:D002(CORROSIVE WASTE).

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ation 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.