

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:MALLINCKRODT 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 6501

/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 EFFEFTS
: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.

===== 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.

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

Flash Point:NA

A
utoignition 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.

===== Accide

ntal 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 =====

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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 Prote

ctive 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 ACID

,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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