

E.I. DUPONT DENEMOURS & CO,INC. -- HYDROCHLORIC ACID,18,20,22 DEG BAUME,REAGNT --  
6810-00-236-5665

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

Product ID:HYDROCHLORIC ACID,18,20,22 DEG BAUME,REAGNT

MSDS Date:01/01/1985

FSC:6810

NIIN:00-236-5665

MSDS Number: BDLTJ

==== Responsible Party ====

Company Name:E.I. DUPONT DENEMOURS & CO,INC.

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Co

Country:US

Info Phone Num:800-441-7515

Emergency Phone Num:800-441-7515

CAGE:EO721

==== Contractor Identification ====

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

Company Name:E.I. DUPONT DENE NEMOURS/WILMINGTON, DE 19898

Box:1635

CAGE:EO721

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

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

CAS:7647-01

-0  
RTECS #:MW4025000  
Fraction by Wt: 31.5%  
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  
Fraction by Wt: 68.5%

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

Effects of Overexposure:SKIN,EYES:CORR;REDNESS,PAIN,SKIN BURNS  
INHALED/INGESTION:PUNGET,COUGHING,SORE THROAT, DIFF. BRTHG.

===== First Aid Measures =====

First Aid:SKIN:WASH W.SOAP & H\*2  
O. EYES:FLUSH W. H\*2O. INGESTED:DON'T  
INDUCE VOMITING. INHALED:REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF  
NEED. KEEP WARM & QUIET. REMOVE CONTAMINATED CLOTHING. NEVER GIVE  
ANYTHING BY MOUTH TO UNCONSCIOUS PERSON GIV LG AMTS WATER.

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

Extinguishing Media:CO\*2, FOAM, DRY CHEM & H\*2O FOG.  
Fire Fighting Procedures:WEAR CHEM PROT. SUIT WITH SCBA. COOL CONTRS  
WITH H\*2O.  
Unusual Fire/Explosion Hazard:CONTACT WITH COMMON M  
ETALS PRODUCES  
FLAMMABLE HYDROGEN GAS.

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

Spill Release Procedures:EVACUATE DANGER AREA, CONSULT AN EXPERT,  
NEUTRALIZE WITH SODIUM HYPOCHLORITE SOLUTION(EXTRA PERSONAL  
PROTECTION:COMPLETE PROTECTIVE CLOTHING(. WEAR SELF-CONTAINED  
BREATHING APPARATUS. STOP LEAK. ELIMI N. IGN. SOURCES.

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

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENT,L

OW FIRE

RISK AREA. PROTECT CONTRS FROM PHYS DAMAGE.KEEP OUT OF DIR RAYS OF SUN AWAY FR ORG PROD & OTHER EASILY OXID MATL

Other Precautions:DO NOT ADMINISTER CARBONATES.WASH THOROUGHLY AFTER HANDLING.WASH CONTAMINATED CLOTHES BEOFRE REUSE.NEVER USE PRESS TO EMPTY.TELIEVE INTERNAL PRESS AT LEAST WEEKLY BY LOOSENING THEN RECLOSE.

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

Respiratory Protection:WEAR SELF-CNTND BRTHG APP IN EMERGENCIES.

Ventilation:LOC

AL EXHAUST TO MAINTAIN ADEQUATE VENTILATION.

Protective Gloves:RUBBER/PLASTIC

Eye Protection:CHEM SPLASH GOGGLES

Other Protective Equipment:RUBBER QUANTLETS,APRON,FACE SHIELD,RUBB BOOTS,HARD HAT,SHIRT

Supplemental Safety and Health

MSDS EFFECTIVE:10/1/77.THE NSN IS SPECIFICALLY FOR THE 20 DEG BAUME' SOLN.THIS MSDS ALSO FOR SOLN OF 18,22 DEG BAUME AND REAGENT GRADE HCL.BP:50-122C.VAP PRESS:11-184.

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

HCC:C1

Boiling Pt

:B.P. Text:98-208F

Vapor Pres:SUP

Vapor Density:1.27

Spec Gravity:1.17

Evaporation Rate & Reference:>1(BU AC=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR,COLORLESS-LT YELLOW LIQ.PUNGENT ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI,CORROSIVE TO MOST METALS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:HYDROGEN CHLORIDE VAPORS,HYGROGEN.

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

Waste Disposal Methods: WEAR RUBBER CLOVES, SCBA, PROTECT CLTHG. ADD SLOWLY TO LG VOL OF AGITATED SOLN OF  $\text{Na}_2\text{CO}_3$  &  $\text{Ca}(\text{OH})_2$ . ADD THIS SOLN TO LG EXCESS OF  $\text{H}_2\text{O}$ . ELIM IGN SOURCES OR KEEP IN COVD DRS. HDLE & DISPOSE LW ALL APPL INTERN, FED, STATE & LOCAL REGS.

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