



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: HYDROCHLORIC ACID
This MSDS is valid for all grades and catalog numbers

General Information

Company's Name: PHARMCO PRODUCTS, INC.
Company's Street: 58 VALE RD.
Company's City: BROOKFIELD
Company's State: CT
Company's Zip Code: 06804
Company's Emerg Ph #: (304) 740-3471
Company's Info Ph #: (203) 740-3471

Date MSDS Revised: Nishant-8/23/99
Safety Data Review Date: 8/23/99
Preparer's Company: PHARMCO PRODUCTS, INC.
Preparer's St Or P. O. Box: 58 VALE RD.
Preparer's City: BROOKFIELD
Preparer's State: CT
Preparer's Zip Code: 06804

Ingredients/Identity Information

Proprietary: NO
Ingredient: HYDROGEN CHLORIDE
(HYDROCHLORIC ACID) (SARA III)
Percent: 37.0

NIOSH (RTECS) Number: MW4025000
CAS Number: 7647-01-0
OSHA PEL: C 5 PPM
ACGIH TLV: C 5 PPM; 9192

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS OR SLIGHTLY YELLOW, FUMING, PUNGENT LIQUID
Boiling Point: 230F, 110C
Vapor Pressure (MM Hg/70 F): 26
Vapor Density (Air=1): 1.2

Specific Gravity: 1.179
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: 1.0 (N-BUTYL ACETATE = 1)
Solubility In Water: APPRECIABLE
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Extinguishing Media: WATER FOG, CO2, DRY CHEMICAL
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA IN AN ENCLOSED AREA.
Unusual Fire And Expl Hazrds: MAY FORM TOXIC MATERIALS, HYDROGEN CHLORIDE,

ACID VAPORS.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): EXTREME HEAT
Materials To Avoid: STRONG ALKALI
METALS/ALKALIES

Hazardous Decomp Products: HCL GAS OR
ACID VAPORS
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NONE NOTED

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Health Hazard Data

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Signs/Symptoms Of Overexp: EYES:SEVERE DAMAGE,BLINDNESS;SKIN:BURNS,DEEP
ULCERATION;INHAL:DAMAGE TO NASAL& RESP.TRACT;ING:DAMAGE
Emergency/First Aid Proc: INHALE:REMOVE TO FRESH AIR, GIVE CPR/O2 IF
NEED;EYES/SKIN:FLUSH W LG AMTS H2O FOR 15 MIN;INGEST:RINSE MOUTH; GET
MEDICAL ATTENTION FOR EYES, BREATHING DIFFICULTY, OR OTHER SYMPTOMS OF
OVEREXPOSURE.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: USE PROPER PERSONAL PROTECTION;DIKE THE
AREA,RECOVER FREE LIQUID;COVER WITH SODA ASH AND RECOVER SLURRY FOR
PROPER
DISPOSAL.
Waste Disposal Method: DISPOSE OF COLLECTED MATERIAL IN ACCORDANCE WITH
LOCAL,STATE AND FEDERAL REGULATIONS.
Precautions-Handling/Storing: STORE IN COOL,DRY AND WELL VENTILATED AREA.
USE CARE.USE PERSONAL PROTECTIVE CLOTHINGS.
Other Precautions: AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE VAPORS.
WASH THOROUGHLY AFTER EACH USE.DO NOT EAT,DRINK AND SMOKE IN WORK AREA.

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Control Measures

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Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID MIST/
VAPOR IF ABOVE TLV.
Ventilation: PROVIDE MECHAN(GEN/LOCAL EXHAUST)VENT TO MAINTN <TLV
Protective Gloves: NEOPRENE
Eye Protection: GOGGLES/FACE SHIELD
Other Protective Equipment: FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE
WASH STATION
Suppl. Safety & Health Data: MSDS DATED:03/86.EFFECTS OF OVEREXP:DAMAGE TO
MUCOUS MEMBRANES & DEEP TISSUES CAN RESULT IN DEATH.

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Transportation Data

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DOT PSN Code: HJG

DOT Proper Shipping Name:
HYDROCHLORIC ACID, SOLUTION

DOT Class: 8
DOT ID Number: UN1789
DOT Pack Group: II
DOT Label: CORROSIVE
IMO PSN Code: IEX
IMO Proper Shipping Name:
HYDROCHLORIC ACID,SOLUTION
IMO Regulations Page Number: 8183
IMO UN Number: 1789
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: NPG
IATA UN ID Number: 1789

IATA Proper Shipping Name:
HYDROCHLORIC ACID SOLUTION
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: NPG
AFI Symbols: T
AFI Prop. Shipping Name: HYDROCHLORIC
ACID, SOLUTION
AFI Class: 8
AFI ID Number: UN1789
AFI Pack Group: II
AFI Label: CORROSIVE
AFI Special Prov: A3,A6,N41
AFI Basic Pac Ref: 12-5

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Disposal Data

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Landfill Ban Item: YES
Disposal Supplemental Data: MSDS DATED:03/86.EFFECTS OF OVEREXP:DAMAGE TO
MUCOUS MEMBRANES & DEEP TISSUES CAN RESULT IN DEATH. IN CASE OF
ACCIDENTAL
EXPOSURE OR DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.
1st EPA Haz Wst Code New: D002
1st EPA Haz Wst Name New: CORROSIVE
1st EPA Haz Wst Char New: CORROSIVITY
1st EPA Acute Hazard New: NO

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Label Data

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Special Hazard Precautions: CONTACT CAUSES BURNS TO SKIN AND EYES. IF
INHALED, MAY BE HARMFUL. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.
RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.