

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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: AMMONIUM HYDROXIDE
This MSDS is valid for all grades that start with catalog number 282

General Information

Company's Name: PHARMCO PRODUCTS, INC.	Safety Data Review Date: 8/23/99
Company's Street: 58 VALE RD.	Preparer's Company: PHARMCO PRODUCTS, INC.
Company's City: BROOKFIELD	Preparer's St Or P. O. Box: 58 VALE RD.
Company's State: CT	Preparer's City: BROOKFIELD
Company's Zip Code: 06804	Preparer's State: CT
Company's Emerg Ph #: (203) 740-3471	Preparer's Zip Code: 06804
Company's Info Ph #: (203) 740-3471	
Date MSDS Revised: Nishant-8/23/99	

Ingredients/Identity Information

Ingredient: AMMONIUM HYDROXIDE (SARA III)	CAS Number: 1336-21-6
Ingredient Sequence Number: 01	OSHA PEL: NOT ESTABLISHED
Percent: 29	ACGIH TLV: NOT ESTABLISHED
NIOSH (RTECS) Number: BQ9625000	

Physical/Chemical Characteristics

Appearance And Odor: WATER WHITE LIQUID;STRONG PUNGENT AMMONIA AROMA.	Vapor Density (Air=1): 0.60
Boiling Point: N/A	Specific Gravity: 0.897
Vapor Pressure (MM Hg/70 F): 536	Evaporation Rate And Ref: <1(ETHER)
	Solubility In Water: COMPLETE
	Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Flash Point: N/A
Lower Explosive Limit: 16
Upper Explosive Limit: 25
Extinguishing Media: WATER
Special Fire Fighting Proc: USE H*2O TO KEEP EXPOS D CONT.COOL.WEAR FULL PROTECTVE CLOTHE
Unusual Fire And Expl Hazrds: NH*3 INCREASES FIRE HAZ OF COMBUSTIBLE(OIL). FLAMMABLE LIMITS BROADENED W. TEMPERATURE INCREASE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAD DECOMPOSES W/O VIOLENCE IN ABSENCE OF COMPATIBLE MATL
Materials To Avoid: STRONG OXIDIZERS,INCLUDING HALOGEN GASES(CL,BR,I, & ACIDS)
Hazardous Decomp Products: GASEOUS NH*3 ON HEATNG.NITROGEN OXIDES EXPECTED.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): N/A

Health Hazard Data

Signs/Symptoms Of Overexp: EYES,SKIN,INHALED:HIGHLY IRRITAT.INGEST: SEVERE BURNS TO GI TRAC. POSSIBLE DEATH FROM SHOCK/ASPHYXIA.
Emergency/First Aid Proc: EYE:FLUSH W LG AMTS H*2O.SKIN:REMOVE CLOTHES,WASH W LG AMTS H*2O INHALED:DON RESPIR PROTECTION,REMOVE TO FRESH AIR.GIVE CPR/O*2 IF NEED.KEEP PATIENT RECUMBENT.INGEST:DO NOT INDUCE VOMIT, GIV LG AMTS H*2O,OR DILUT VINEGAR,LEMON JUICE/OTHER.THEN DULCMN

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: REMOVE UNPROTECTED PERSONS.PROTECTED PERSONS FLUSH W LG AMTS H*2O. LG SPILL:DIKE W SAND/INERT SOLID.PUMP INTO DRUMS, CLOSE,LABEL CORROSIVE
Waste Disposal Method: DISPOSAL IS SUBJECT TO REGIONAL REGULATIONS.USERS SHOULD REVIEW OPERATIONS FOR COMPLIANCE,THEN CONSULT APPROP AGENCIES BEFORE DISPOSAL OF WASTE MATERIAL.
Precautions-Handling/Storing: AVOID CONTACT W LIQ/GAS.AVOID HEAT/IGNITION SOURCES.STORE OUTSIDE,OTHERWISE IN COOL,DRY,WELL VENTILATD.NON-COMBUSTIBLE AREA.PROTECT FROM PHYSICAL DAMAGE
Other Precautions: FOR STORAGE CONSIDER:POPULATION,PROXIMITY TO H*2O SUPPLIES.CLOSED CONTAINERS PROVIDED W.SAFETY RELIEF VALVES.NEVER USE PRESS TO EMPTY.KEEP UPRIGHT.FOR SPILL:FLUSH W LG AMOUNTS OF WATER.

Control Measures

Respiratory Protection: GENERAL NOT REQD.SPILL:USE NIOSH APPRVD RESPIR FOR NH*3,MIST,NO*2.
Ventilation: LOCAL/MECHAN TO REDUCE AMMONIA LEVELS BELOW PERMISSABLE LEVEL
Protective Gloves: ALKALI RESISTNT
Eye Protection: SAFETY GLASSES NO CONTACT
Other Protective Equipment: FULL PROTECTV CLOTHES,FACE SHIELD,EYE WASH, SAFETY SHOWER.
Suppl. Safety & Health Data: CHEM NAME/SYNONYMS:AMMONIUM HYDROXIDE; AMMONIA,AQUEOUS;AMMONIA SOLN;AMMONIACAL LIQUOR.PER CONTACT W MFGR.P/N IS MFGR SPECIFIC DESIGNATION OF ITEM RATHER THAN GENERIC-AMMONIUM HYDROXIDE, 25-30%

Transportation Data

DOT PSN Code: ANB	DOT Label: CORROSIVE
DOT Proper Shipping Name: AMMONIA SOLUTIONS	IMO PSN Code: AWY
DOT Class: 8	IMO Proper Shipping Name: AMMONIA SOLUTION *
DOT ID Number: UN2672	IMO Regulations Page Number: 8111
DOT Pack Group: III	IMO UN Number: 2672
	IMO UN Class: 8
	IMO Subsidiary Risk Label: -

IATA PSN Code: BKD
IATA UN ID Number: 2672
IATA Proper Shipping Name: AMMONIA
SOLUTION *
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: BKD

AFI Prop. Shipping Name: AMMONIA
SOLUTIONS
AFI Class: 8
AFI ID Number: UN2672
AFI Pack Group: III
AFI Label: CORROSIVE
AFI Basic Pac Ref: 12-5

Disposal Data

Landfill Ban Item: YES
Disposal Supplemental Data: CHEM NAME/SYNONYMS:AMMONIUM HYDROXIDE;AMMONIA,
AQUEOUS;AMMONIA SOLN;AMMONIACAL LIQUOR.PER CONTACT W MFGR.P/N IS MFGR
SPECIFIC DESIGNATION OF ITEM RATHER THAN GENERIC-AMMONIUM HYDROXIDE, 25-30%
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

Label Data

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.