



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 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 #: (203) 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

Ingredient: AMMONIUM HYDROXIDE (SARA III)  
Ingredient Sequence Number: 01  
Percent: 29

NIOSH (RTECS) Number: BQ9625000  
CAS Number: 1336-21-6  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

### Physical/Chemical Characteristics

Appearance And Odor: WATER WHITE LIQUID; STRONG PUNGENT AMMONIA AROMA.  
Boiling Point: N/A  
Vapor Pressure (MM Hg/70 F): 536

Vapor Density (Air=1): 0.60  
Specific Gravity: 0.897  
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<sub>2</sub>O TO KEEP EXPOSURE CONT. COOL. WEAR FULL  
PROTECTIVE CLOTHING  
Unusual Fire And Expl Hazards: NH<sub>3</sub> INCREASES FIRE HAZ OF COMBUSTIBLE(OIL).  
FLAMMABLE LIMITS BROADENED W. TEMPERATURE INCREASE.

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#### Reactivity Data

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Stability: YES  
Conditions To Avoid (Stability): HEAD DECOMPOSES W/O VIOLENCE IN ABSENCE OF  
COMPATIBLE MATERIAL  
Materials To Avoid: STRONG OXIDIZERS, INCLUDING HALOGEN GASES (CL, BR, I, &  
ACIDS)  
Hazardous Decomposition Products: GASEOUS NH<sub>3</sub> ON HEATING. NITROGEN OXIDES  
EXPECTED.  
Hazardous Polymer Occurs: NO  
Conditions To Avoid (Poly): N/A

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#### Health Hazard Data

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Signs/Symptoms Of Overexposure: EYES, SKIN, INHALED: HIGHLY IRRITATED. INGEST: SEVERE  
BURNS TO GASTRIC TRACT. POSSIBLE DEATH FROM SHOCK/ASPHYXIA.  
Emergency/First Aid Procedure: EYE: FLUSH W LG AMTS H<sub>2</sub>O. SKIN: REMOVE  
CLOTHING, WASH W LG AMTS H<sub>2</sub>O. INHALED: DON RESPIRATORY PROTECTION, REMOVE TO FRESH  
AIR. GIVE CPR/O<sub>2</sub> IF NEEDED. KEEP PATIENT RECUMBENT. INGEST: DO NOT INDUCE VOMIT,  
GIVE LG AMTS H<sub>2</sub>O, OR DILUTE VINEGAR, LEMON JUICE/OTHER. THEN DULCORN

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#### Precautions for Safe Handling and Use

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Steps If Material Released/Spill: REMOVE UNPROTECTED PERSONS. PROTECTED PERSONS  
FLUSH W LG AMTS H<sub>2</sub>O. 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 APPROPRIATE 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 VENTILATED. NON-  
COMBUSTIBLE  
AREA. PROTECT FROM PHYSICAL DAMAGE  
Other Precautions: FOR STORAGE CONSIDER: POPULATION, PROXIMITY TO H<sub>2</sub>O  
SUPPLIES. CLOSED CONTAINERS PROVIDED W. SAFETY RELIEF VALVES. NEVER USE PRESS  
TO EMPTY. KEEP UPRIGHT. FOR SPILL: FLASH W LG AMOUNTS OF WATER.

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#### Control Measures

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Respiratory Protection: GENERAL NOT REQUIRED. SPILL: USE NIOSH APPROVED RESPIRATOR FOR  
NH<sub>3</sub>, MIST, NO<sub>2</sub>.

Ventilation: LOCAL/MECHAN TO REDUCE AMMONIA LEVELS BELOW PERMISSABLE LEVEL  
Protective Gloves: ALKALI RESISTANT  
Eye Protection: SAFETY GLASSES NO CONTACT  
Other Protective Equipment: FULL PROTECTIVE 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	IMO Subsidiary Risk Label: -
DOT Proper Shipping Name: AMMONIA SOLUTIONS	IATA PSN Code: BKD
DOT Class: 8	IATA UN ID Number: 2672
DOT ID Number: UN2672	IATA Proper Shipping Name: AMMONIA SOLUTION *
DOT Pack Group: III	IATA UN Class: 8
DOT Label: CORROSIVE	IATA Label: CORROSIVE
IMO PSN Code: AWY	AFI PSN Code: BKD
IMO Proper Shipping Name: AMMONIA SOLUTION *	AFI Prop. Shipping Name: AMMONIA SOLUTIONS
IMO Regulations Page Number: 8111	AFI Class: 8
IMO UN Number: 2672	AFI ID Number: UN2672
IMO UN Class: 8	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.