

AMERICAN DEVELOPMENT CORP -- AQUA AMMONIA 26BE\* - AMMONIUM HYDROXIDE SOLUTION  
28-30% -- 6810-00-222-9643

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

Product ID:AQUA AMMONIA 26BE\* - AMMONIUM HYDROXIDE SOLUTION 28-30%

MSDS Date:05/31/1989

FSC:6810

NIIN:00-222-9643

MSDS Number: BKCDF

=== Responsible Party ===

Company Name:AMERICAN DEVELOPMENT CORP

Address:HIGHWAY 118 WEST, ROUTE 2

Box:667

City:VANCEBORO

Stat

e:NC

ZIP:28586

Country:US

Info Phone Num:919-244-0782

Emergency Phone Num:800-424-9300(CHEMTREC)

Preparer's Name:TECHNICAL MANAGER

CAGE:3J729

=== Contractor Identification ===

Company Name:AMERICAN DEVELOPMENT CORP

Address:1456 STATE CAMP ROAD

Box:385

City:VANCEBORO

State:NC

ZIP:28586

Country:US

Phone:919-244-0782

CAGE:3J729

Company Name:PRILLAMAN CHEMICAL CORP

Address:201 SUBBURBAN DR

Box:1606

City:SUFFOLK

State:VA

ZIP:23434-1606

Country:US

Phone:804-539-7401

CAGE:0G5T1

===== Composit

ion/Information on Ingredients =====

Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Fraction by Wt: 29%

Other REC Limits:IDLH 500 PPM

OSHA PEL:25 PPM AMMONIA GAS

ACGIH TLV:25 PPM AMMONIA GAS

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 71%

Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STAT  
ED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYE:SEVERE IRRITATION, LIQUID

CAUSES SEVERE TO PERMANENT EYE DAMAGE. SKIN:SEVERE IRRITATION,  
BURNS. INHALATION:HIGHLY IRRITATING TO THROAT & LUNGS.

INGESTION:SEVERE BURNS TO THE MOUTH, THROAT AN D STOMACH, POSSIBLE  
DEATH FROM SHOCK & ASPHYXIA.

Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT  
CARCINOGENICIT

Y. HMIS FOUND NO LISTING & DOES NOT EXPECT IT TO BE  
CARCINOGENIC.

Effects of Overexposure:EYES:REDNESS, TEARING, BLURRED VISION.

SKIN:BLISTERS. INHALATION:COUGH, DISCOMFORT, DIFFICULTY IN

BREATHING, SHORTNESS OF BREATH, EDEMA, DYSPNEA, BRONCHOSPASM, CHEST  
PAIN, PINK FROTHY SPUTUM. INGESTIO N:NAUSEA, VOMITING, DIARRHEA,  
SHOCK & ASPHYXIA.

Medical Cond Aggravated by Exposure:MFR GAVE NO INFORMATION OF MSDS.

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

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First Aid: IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.  
EYE: FLUSH W/WATER FOR 15 MIN. SKIN: WASH W/SOAP & WATER. REMOVE  
CONTAMINATED CLOTHING & LAUNDRY BEFORE REUSE. INHALED: REMOVE FROM  
EXPOSURE. AID OR RESTORE BREATHING AS NEEDED. INGESTED: DO NOT  
INDUCE VOMITING. GIVE LARGE AMOUNT OF MILK OR WATER TO DRINK. DO  
NOT GIVE SODIUM BICARBONATE. GET IMMEDIATE MEDICAL ATTENTION.

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

Lower Limits: 16

Upper

Limits: 25

Extinguishing Media: USE WATER

Fire Fighting Procedures: NOT CONSIDERED A PRIMARY FIRE HAZARD, AVOID  
EXPOSURE TO LIQUID PRODUCT. WEAR SPLASH PROOF GAS TIGHT GOGGLES,  
RESPIRATORY PROTECTION, RUBBER GLOVES & CLOTHING.

Unusual Fire/Explosion Hazard: COOL FIRE EXPOSED CONTAINERS.

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

Spill Release Procedures: EVACUATE AREA. SHUT OFF LEAK & REMOVE IGNITION  
SOURCES. USE WATER SPRAY TO KNOCK DOWN AMMONIA GAS. DIKE SPILLS,  
&  
PUMP INTO DRUMS, CLOSE & LABEL "CORROSIVE". FLUSH AREA WITH COPIOUS  
AMOUNT OF WATER.

Neutralizing Agent: MFR GAVE NO INFORMATION OF MSDS.

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

Handling and Storage Precautions: PREFERABLY STORED OUTSIDE, OTHERWISE  
IN COOL, DRY WELL VENTILATED, NON-COMBUSTIBLE LOCATION AWAY FROM  
SOURCES OF IGNITION & OXIDIZERS.

Other Precautions: DO NOT WEAR CONTACT LENSES. CAUSES BURNS TO EYES &  
SKIN. MAY BE FATAL IF INHALED OR SWALLOWED. VAPOR EXTREMELY  
IRRITATING.

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

Respiratory Protection: WEAR RESPIRATORY PROTECTION APPROVED BY  
NIOSH/MSHA FOR AMMONIA WHEN EXPOSURE LIMITS ARE EXCEEDED. REFER TO  
PSHA 29CFR1910.134.

Ventilation: PROVIDE SUFFICIENT VENTILATION IN CONFINED AREAS TO  
MAINTAIN EXPOSURE BELOW 50 PPM.

Protective Gloves: RUBBER GLOVES TO PREVENT CONTACT

Eye Protection: SPLASH PROOF GAS TIGHT SAFETY GOGGLES

Other Protective Equip

ipment:WEAR IMPERVIOUS CLOTHING & BOOTS TO PREVENT  
SKIN CONTACT. EYE WASH & SHOWER FACILITY AVAILABLE IN WORK AREA.  
Work Hygienic Practices:MFR GAVE NO INFORMATION OF MSDS.  
Supplemental Safety and Health  
MSDS RECEIVED FROM THE NAVY (FOCAL POINT N). NSN IDENTIFIED BY FOCAL  
POINT N.

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

HCC:B1  
NRC/State Lic Num:NONE  
Vapor Pres:590 MM  
Vapor Density:0.569  
Spec Gravity:0.897  
pH:11.6  
Solubility in Water:COMPLETE  
Appearance and  
Odor:WATER WHITE LIQUID: STRONG, PUNGENT AMMONIA AROMA

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

Stability Indicator/Materials to Avoid:YES  
SILVER, MERCURY, ZINC, COPPER, CHLORINE, HYPOCHLORITES, ACROLEIN,  
ACRYLIC ACID, PROPYLENE OXIDE, DIMETHYL SULFATE  
Stability Condition to Avoid:HEATING ABOVE AMBIENT CAUSES VAPOR  
PRESSURE TO INCREASE RAPIDLY.  
Hazardous Decomposition Products:HIGH TEMPERATURE DECOMPOSITION MAYH  
INCLUDE OXIDES OF NITROGEN.  
Conditions to A  
void Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL  
REGULATIONS. HAZ WASTE NO. D002. SUITABLY DILUTED, PRODUCT MAY BE  
DISPOSED OF ON AGRICULTURAL LAND AS FERTILIZER. KEEP FROM ENTERING  
STREAMS OR LAKES. SMALL QUA NTITIES MAY BE NEUTRALIZED W/DILUTE  
HCL.

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