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NATIONAL AMMONIA CO -- AQUA AMMONIA -- 6810-01-018-6726

Product ID:AQUA AMMONIA MSDS Date:01/01/1987

FSC:6810

NIIN:01-018-6726

MSDS Number: BNPTS === Responsible Party ===

Company Name: NATIONAL AMMONIA CO

Address:TACONY & VANKIRK STS

City:PHILADELPHIA

State:PA ZIP:19135 Country:US

Info Phone Num:215-535-7530

Emergency Phone Num:215-535-7530;800-424-9300(CHEMTREC)

CAGE:21059

=== Contractor Identification ===

Company Name:NATIONAL AMMONIA CO Address:TACONY AND VAN KIRK STREETS

Box:City:PHILDELPHIA

State:PA ZIP:19135 Country:US

Phone:215-525-7530

CAGE:21059

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

Ingred Name: AMMONIUM HYDROXIDE; (AMMONIUM HYDROXIDE SOLUTION) (SARA III). COMPOSITION: 29.4% BY WT OF AMMONIA GAS DISSOLVED IN H\*20.

CAS:1336-21-6

RTECS #:BQ9625000 Fraction by Wt: SEE ING OSHA PEL:50(NH\*3)PPM ACGIH TLV:25(NH\*3)P PM;35 STEL

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:FIRST AID PROC: IF SYMPTOMS PERSIST OR EXPOSURE IS SEVERE, SEEK PROMPT MED HELP! NOTE TO MD: EYE INJURY MAY (ING 3) RTECS #:9999992Z

Ingred Name:ING 2: APPEAR AS DELAYED PHENOMENON. PULM EDEMA MAY FOLLOW CHEMICAL BRONCHITIS. SUPPORTIVE TREATMENT W/NECESSARY (ING 4) RTECS #:9999992Z

Ingred Name:ING 3: VENTILATORY ACTIONS, INCLUDING OXYGEN, MAY WARRANT CONSIDERATION.

RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: UN
DER THE COMPREHENSIVE ENVIRON RESPONSE,
COMPENSATION, & LIABILITY ACT OF 1980, ANY ENVIRON (ING 6)
RTECS #:9999992Z

Ingred Name:ING 5: RELEASE OF THIS CHEM EQUAL TO OR OVER THE REPORTABLE QTY OF 1000 LBS MUST BE REPORTED PROMPTLY TO NRC.

RTECS #:9999999ZZ

Ingred Name: VAPOR PRESSURE: 420-475 @ 15.5C.

RTECS #:9999999ZZ

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingesti

on:YES

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

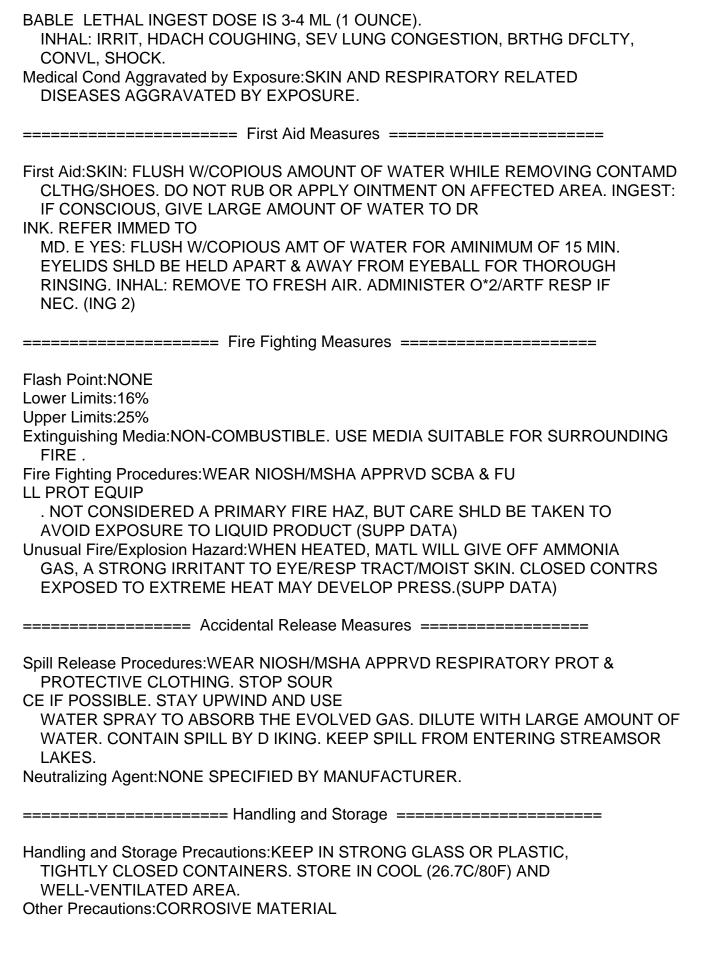
Health Hazards Acute and Chronic: IRRITANT AND CORROSIVE TO SKIN, EYE,

RESPIRATORY TRACT AND MUCOUS MEMBRANES. MAY CAUSE SEVERE BURNS, EYE AND LUNG INJURIES.

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: SKIN: LOCAL IRRIT/BURNS; BLISTER FORMATION.

EYES: BURNS, MAY LEAD TO BLINDNESS. INGEST: BURNING PAIN IN MOUTH, THROAT, STOM, THORAX, CONSTRICTION OF THROAT, COUGHING, FOLLOWED BY VOMIT/DIARR. PRO



. AVOID UNNECESSARY EXPOSURE. USE PROTECTIVE EQUIPMENT AS NEEDED. DO NOT WEAR CONTACT LENSES WITHOUT GAS-TIGHT CHEMICAL GOGGLES.

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

Respiratory Protection:NIOSH/MSHA APPRVD RESPIRATORY PROT W/FULL FACEPIECE FOR GAS & VAPOR CONTAMINANTS EFTIVE FOR AMMONIUM HYDROXIDE & ABLE TO BE USED FOR ENTRY & ESCAPE IN EMERGENCIES. REFER TO 29 CFR 1910.134 AND ANSI: Z 88.2-1980 FOR REQUIREMENTS/SELECTION.

Ventilation:LOC

AL EXHAUST SUFFICIENT TO KEEP AMMONIA GAS TO 50 PPM OR LESS. REFER TO 29CFR 1910.134 & ANSI:Z9.2-1960 REQ/SELECTION.

Protective Gloves: RUBBER GLOVES.

Eye Protection: CHEM WORK GOGG & FULL LGTH FSHLD

Other Protective Equipment:OVERSHOES & COTTON WORK CLOTHES. REFER TO 29 CFR 1910.132-1910.136 FOR REQUIREMENTS. EYEWASH/SFTY SHOWER IN IMMED VICIN.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

BP: NH\*3 VAPORS RELEASED ON WARMING. FIRE FIGHT PROC:

INVOLVED IN FIRE.

COOL FIRE-EXPOSED CONTRS. EXPLO HAZ: COMBUST OF RELEASED AMMONIA MAY FORM NO\*X. CNDTNS (STAB): AQUA AMMONIA WILL REACT EXOTHERMI CALLY WITH ACIDS. RELEASES AMMONIA VAPOR WHEN HEATED. MATLS TO AVOID: HALOGENS, SODIUM HYDROXIDE. STRONG OXIDIZERS.

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

Boiling Pt:B.P. Text:SUPP DATA Melt/Freeze Pt:M.P/F.P Text:-108F,-78C Vapor Pres:SEE ING 7 Vapor Density: