

AGRICO CHEMICAL CO -- ANHYDROUS AMMONIA -- 6830-00-664-9062

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

Product ID:ANHYDROUS AMMONIA

MSDS Date:12/01/1989

FSC:6830

NIIN:00-664-9062

MSDS Number: BWFMW

=== Responsible Party ===

Company Name:AGRICO CHEMICAL CO

Address:7250 HWY 44

City:UNCLE SAM

State:LA

ZIP:70792-9999

Country:US

Info Phone Num:504-562-3501

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

CAGE:AGRIC

=== Contractor Identification ===

Company Name:AGRICO CHEMICAL CO

Address:7250 HWY 44

Box:City:UNCLE SAM

State:LA

ZIP:70792-9999

Country:US

Phone:504-562-3501

CAGE:AGRIC

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

Ingred Name:AMMONIA (SARA III)

CAS:7664-41-7

RTECS #:BO0875000

Fraction by Wt: 99-100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:50 PPM

ACGIH TLV:25 PPM/35 STEL; 9394

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

===== Hazards Identification ==

=====

LD50 LC50 Mixture:LD50 ORAL, RAT=350MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:SEVERE EYE/RESP TRACT/SKIN

IRRIT.BURNING/TEARING OF EYES,RUNNY NOSE,COUGHING,CHEST PAIN,CESSATION OF RESP,DEATH.SEVERE BREATH DIFFI MAY BE DELAYED IN ONSET.EXPO OF EYE TO HI CONCEN MAY PROD TEMP BLINDNESS(CATARACTS,GLAUCOMA),SEVERE EYE DAMAGE.EXPO OF SKIN CAUSE BURNING/BLI

STER.CONTACT W/LIQ BLINDNESS,SEVE EYE,SKIN BURN

Explanation of Carcinogenicity:PER MSDS:LISTED AS CARCINOGEN IN:IARC/NTP/OSHA:NO.

Effects of Overexposure:EYE/RESP TRACT/SKIN IRRITANT. COUGHING, CHEST PAIN, CESSATION OF RESPIRATION, DEATH. BREATHING DIFFICULTY. BLINDNESS(CATARACTS, GLAUCOMA), SEVERE EYE DAMAGE. SKIN BURNING/BLISTERING.

Medical Cond Aggravated by Exposure:CHRONIC RESPIRATORY OR SKIN DISEASE.

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

First Aid:EYE:IMMED FLUSH W/WATER FOR @LEAST 15MINS LIFTING EYELIDS.SKIN:IMMED FLUSH W/WATER FOR @LEAST 15MINS.CLOTH FROZEN TO SKIN SHOULD BE REMOVED ONLY AFT COMPLETELY THAWED.REMOVE TO FRESH AIR.INHAL:REMOVE TO FRESH AIR.ADMINISTER ART RESP IF NOTBREATH(OXY MAY BE GIVEN BY TRAINED INDIVIDUAL IF NECESSARY).INGEST:GIVE LG AMTS OF WATER OR MILK TO DRINK IMMED.DO NOT INDUCE VOMIT.IN ALL CASES (SUPPLEMENTAL)

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

=====

Lower Limits:15

Upper Limits:28

Extinguishing Media:STOP FLOW OF GAS RATHER THAN EXT FIRE.CARBON DIOXIDE, DRY CHEMICAL USE TO PERMIT ACCESS TO SHUT OFF VALVE.

Fire Fighting Procedures:USE WATERSPRAY TO CNTRL VAP.WATER/LIQ NH3 MIXTURE WILL GENERATE HEAT/VAP.DO NOT PUT WATER ON LIQ NH3 UNLESS HAVE >100VOL WATER/VOL NH3.WEAR FULL PROT CLOTH/SCBA

Unusual Fire/Explosion Hazard:15-28% NH3 VAP IN AIR CAN EXPLO ON CONTACT W/IGN SOURCE.NOT RECOMMEND TO USE WELD/FLAME CUT EQPMT
O

N/IN NH3 CNTNR UNLESS PUPRGED/WATER RINSED/OIL RESIUDE REMOVE

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

Spill Release Procedures:STOP LEAK W/O RISK.ISOLATE IN ALL DIRECTIONS
300FT.EVACUATE DOWNWIND DIRECTION 0.4 MILE WIDE & 0.8MILE LONG.USE
WATERSPRAY TO REDUCE VAP;DO NOT PUT WATER ON LIQ POOL.STAY
UPWIND.USE SCBA/FULLY ENCAPSU LATED PROT CLOTH.DIKE.KEEP OUT OF
SEWERS/STREAMS.

Neutralizing Agent:NONE SPECIFIED BY MFG.

===== Handling a
nd Storage =====

Handling and Storage Precautions:SEE CURRENT ANSIK61.1 STD"SAF REQMTS
FOR STOR/HANDLE OF ANHYDROUS HN3".EYE PROT CRITICAL.DO NOT EXPO
BODY TO ANY DISCHARGE OEPNING(HOSEEND,VALVES,ETC)

Other Precautions:IN AGRICULTURAL DISTRIBUTION,PROVIDE EASILY
ACCESSIBLE SHOWER &/OR @LEAST 100GAL OF CLEAN WATER IN OPEN TOP
CNTNR.WHEN TRANSPORTING PROVIDE @LEAST 5GAL OF ACCESSIBLE CLEAN
WATER & PERSONAL PROT EQPMT.

===== Exposure Controls/Persona
l Protection =====

Respiratory Protection:LESS THAN 500PPM:GAS MASK W/CHIN-STYLE OR FRONT
OR BACK-MOUNTED NH3 CANISTER. GREATER THAN 500PPM:SELF-CONTAINED
BREATHING APPARATUS W/FULL-FACE PIECE OPERATED IN POSITIVE PRESSURE
MODE.

Ventilation:ADEQUATE VENTILATION TO KEEP AMMONIA CONCENTRATIONS BELOW
APPLICABLE STANDARDS WHEN POSSIBLE.

Protective Gloves:NEOPRENE,RUBBER GAUNTLET-TYP

Eye Protection:CHEM GOGG W/FULLFACE SHIELD FOR ADDN PRO

Other Protective Equipment:NH3 RESIS

T CLOTH(OVERALL,JACKET,BOOT)OR VAP

SUIT,SAF SHOWER,EYEWASH;LIQ AMMONIA MAY CAUSE PROT EQPMT BECOME
BITTLE.

Work Hygienic Practices:AVOID CONTACT.

Supplemental Safety and Health

DENSITY:5.15LB/GAL @60F. 1STAID:GET MED ATTN/CALL PHYSICIAN.NOTE TO
PHYSICIAN:PNEUMONITIS SHOULD BE ANTICIPATED AFT INHAL/INGEST.IF
SEVERE EXPO IS SUSPECTED OBSERVE FOR 48-72HRS FOR DELAYED PULM
EDEMA .

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

HCC:G5

Boiling Pt:B.P. Text:-

25F,-32C

Melt/Freeze Pt:M.P/F.P Text:-108F,-78C

Vapor Density:0.60 @32F

Spec Gravity:0.58

pH:11

Solubility in Water:89.9G/100CC, @32F

Appearance and Odor:GAS (LIQ UNDER PRESSURE), COLORLESS GAS & LIQ
W/STRONG PUNGENT PENETRATING ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS &

OXIDIZERS,ACETALDEHYDE,ACROLEIN,CHLORINE,FLUORINE,BROMINE,MERCURY,G
OLD,SILVER,HYPOCHLORITE BL

EACHES.

Stability Condition to Avoid:AVOID USE OF NONFERROUS METALS.

Hazardous Decomposition Products:HYDROGEN RELEASED ONHEATING

>850F(454C).DECOMP TEMP MAY BE LOWERED BY 575F(300C)BY CONTACT
W/CERTAIN METALS SUCH AS NI.

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

Waste Disposal Methods:RQ=100LBS. NONE SPECIFIED BY MFG HOWEVER DISPOSE
OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling ag
encies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.