

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 ==

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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 BLIND
NESS(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 =====

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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.

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