

MG INDUSTRIES -- AMMONIA, ANHYDROUS -- 6830-00-664-9062

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

Product ID:AMMONIA, ANHYDROUS
MSDS Date:07/14/1993
FSC:6830
NIIN:00-664-9062
MSDS Number: BNBRV
=== Responsible Party ===
Company Name:MG INDUSTRIES
Address:2460 BLVD OF THE GENERALS
Box:945
City:VALLEY FORGE (FORMERLY MALVERN)
State:PA
ZIP:19482
Country:US
Info Phone Num:215-630-5400
Emergency Phone Num:800
-424-9300 (CHEMTREC)
CAGE:08772
=== Contractor Identification ===
Company Name:MG INDUSTRIES
Address:3 GREAT VALLEY PKY
Box:City:MALVERN
State:PA
ZIP:19355-1424
Country:US
Phone:610-695-7400 / 610-695-7449
CAGE:08772

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

Ingred Name:AMMONIA (SARA III)
CAS:7664-41-7
RTECS #:BO0875000
Fraction by Wt: 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

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

LD50 LC50 Mixture:IHL-HMN TC LO: 5000 PPM/ 5 MIN

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

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

Health Hazards Acute and Chronic:500 PPM IMMEDIATELY DANGEROUS TO LIFE OR HEALTH. BURNING OF THE EYES, CONJUNCTIVITIS, SKIN IRRITATION, SWELLING OF THE EYELIDS AND LIPS, DRY RED MOUTH AND TONGUE, BURNING OF THE THROAT, AND COUGHING. IN MORE SEVERE CASES OF EXPOSUR

E, DIFFICULTY IN BREATHING, SIGNS AND SYMPTOMS OF LUNG CONGESTION, AND, ULTIMATELY, DEATH

Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.

Effects of Overexposure:IRRITATION AND BURNS OF THE SKIN AND MUCOUS MEMBRANES. HEADACHE, SALIVATION, NAUSEA, AND VOMITING. DIFFICULT OR LABORED BREATHING AND COUGH WITH BLOODY MUCOUS DISCHARGE. BRONCHITIS, LARYNGITIS, HEMOPT YSIS, AND PULMONARY EDEMA OR PNEUMO

NITIS. DEATH MAY RESULT. ULCERATION OF THE CONJUNCTIVA AND CORNEAL OPACITIES.

Medical Cond Aggravated by Exposure:AMMONIA IS A RESPIRATORY IRRITANT. PERSONS WITH IMPAIRED PULMONARY FUNCTION MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INGESTION:IF THIS GAS IS SWALLOWED IN LIQUID FORM, KEEP VICTIM WARM AND OBTAIN MEDICAL ATTENTION. IF SIGNS OF RESPIRATORY OBSTRUCTION DEVELOP, IMMEDIATELY TRANSPORT TO MEDICAL FACILITY. DO NOT INDUCE VOMITING. INHALATION:REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN IF NECESSARY. SKIN:APPLY WATER FOR 30 MIN. EYES:IMMEDIATELY FLUSH WITH FLOWING WATER FOR AT LEAST 30 MIN. OBTAIN MEDICAL ATTENTION.

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

Autoignition Temp:Autoignition Temp Text:1204F

Lower Limits:15

Upper Limits:28

Extinguishing Media:WATER SPRAY OR FOG, CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:USE WATER FOG T

O KEEP FIRE-EXPOSED CONTAINERS

COOL AND TO PROTECT THE MEN EFFECTING THE SHUT-OFF. WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:MOVE CONTAINER FROM FIRE AREA IF W/O RISK. KEEP UP WIND AND EVACUATE DOWNWIND AREA. DO NOT GET WATER INSIDE CONTAINERS.

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

Spill Release Procedures:DO NOT APPLY WATER ONTO LEAKING TANK. STOP THE FLOW OF GAS OR LIQUID. WEAR FULL PROTECTIVE CLOTHING AND SE

LF-CONTAINED BREATHING APPARATUS. USE WATER TO PROTECT MEN EFFECTING THE SHUT-OFF. APPROACH FR OM UP-WIND. DIKE LIQUID SPILLS.

Neutralizing Agent:ADD DILUTE ACID TO NEUTRALIZE.

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE.

OUTSIDE SHADED AREA OR DETACHED STORAGE IS PREFERRED. INSIDE STORAGE SHOULD BE IN A COOL, DRY, WELL-VENTILATED AREA.

Other Precautions:SEPARATE FROM OTHER CHEMICALS, PARTICULARLY OXIDIZING

GASES, CHLORINE, BROMINE, IODINE, AND ACIDS. AVOID INGESTION, INHALATION, AND CONTACT WITH SKIN AND EYES.

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

Respiratory Protection:RESPIRATOR SELECTED WILL DEPEND ON EXPOISURE. IT SHOULD HAVE FULL FACE MASK. SCBA OR SUPPLIED AIR RESPIRATORS ARE PREFERRED. ESCAPE MASKS SHOULD BE PROVIDED FOR ENCLOSED AREAS.

Ventilation:USE LOCAL EXHAUST TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:RUBBER OR SY

NTHETIC CHEMICAL GLOVES.

Eye Protection:GAS-TIGHT CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:EYEWASH FOUNTAIN AND SAFETY SHOWER.

IMPERVIOUS CLOTHING IF THERE IS DANGER OF CONTACT WEITH LIQUID.

Work Hygienic Practices:AVOID INHALATION OF VAPORS OR CONTACT WITH SKIN.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:G3

Boiling Pt:B.P. Text:-27F,-33C

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

Vapor

Pres:6658 MM
Vapor Density:0.5967
Spec Gravity:0.70
pH:11.6
Solubility in Water:38% AT 20C
Appearance and Odor:COLORLESS GAS OR LIQUID WITH EXTREMELY PUNGENT
ODOR.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
CONTACT WITH OXIDIZING GASES, CHLORINE, BROMINE, MINERAL HYPOCHLORITE
IODINE, HALOGENS, CALCIUM, AND STRONG ACIDS.
Stability Condition to Avoid:HEAT, OPEN FLAMES.
Hazardous Decomposit
ion Products:THERMAL DECOMPOSITION MAY RELEASE
CORROSIVE FUMES OF AMMONIA AND TOXIC OXIDES OF NITROGEN.

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

Waste Disposal Methods:CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES FOR
PROPER DISPOSAL PROCEDURES. IF POSSIBLE, ALLOW SPILLED AMMONIA TO
EVAPORATE, AS IT IS TOO VOLITILE TO ABSORB. DO NOT APPLY WATER TO
AMMONIA LIQUID AS TH IS WILL CAUSE BOILING AND SPLATTERING.

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