

AMMONIA, ANHYDROUS

MSDS Number

BNBRV

National Stock Number

6830-00-664-9062

Product Name

AMMONIA, ANHYDROUS

Manufacturer

MG INDUSTRIES

Product Identification

Product ID:AMMONIA, ANHYDROUS

MSDS Date:07/14/1993

FSC:6830

NIIN:00-664-9062

MSDS Number: BNBRV

Responsible Party

MG INDUSTRIES

2460 BLVD OF THE GENERALS

VALLEY FORGE (FORMERLY MALVERN) , PA 19482

US

Emergency Phone: 800-424-9300 (CHEMTREC)

Info Phone: 215-630-5400

Cage: 08772

Contractor

MG INDUSTRIES

MALVERN, PA 19355-1424

US

610-695-7400 / 610-695-7449

Cage: 08772

Ingredients

AMMONIA (SARA III)

CAS: 7664-41-7

RTECS: BO0875000

Fraction By Weight: 100%

OSHA PEL50 PPM

ACGIH TLV: 25 PPM/35 STEL; 9394

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

Hazards

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 EXPOSURE, 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, HEMOPTYSIS, AND PULMONARY EDEMA OR PNEUMONITIS. DEATH MAY RESULT. ULCERATION OF THE CONJUNCTIVA AND CORNEAL OPACITIES.

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

First Aid

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

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 TO 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

Spill Release Procedures:DO NOT APPLY WATER ONTO LEAKING TANK. STOP THE FLOW OF GAS OR LIQUID. WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. USE WATER TO PROTECT MEN EFFECTING THE SHUT-OFF. APPROACH FROM UP-WIND. DIKE LIQUID SPILLS.

Neutralizing Agent:ADD DILUTE ACID TO NEUTRALIZE.

Handling

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

Respiratory Protection:RESPIRATOR SELECTED WILL DEPEND ON EXPOSURE. 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 SYNTHETIC 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 WITH LIQUID.

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

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

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 Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE
CORROSIVE FUMES OF AMMONIA AND TOXIC OXIDES OF NITROGEN.

Disposal

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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