

AMMONIA ANHYDROUS

MSDS Number

BHBBN

National Stock Number

9135-00-823-8110

Product Name

AMMONIA ANHYDROUS

Manufacturer

VAN WATERS AND ROGERS INC

Product Identification

Product ID:AMMONIA ANHYDROUS

MSDS Date:05/15/1989

FSC:9135

NIIN:00-823-8110

MSDS Number: BHBBN

Responsible Party

VAN WATERS & ROGERS INC.

1600 NORTH BLDG.

SEATTLE , WA 98104

Emergency Phone: (800) 424-9300

Info Phone: (800) 424-9300

Cage: DO735

Contractor

VAN WATERS & ROGERS SUBSIDIARY OF UNIVAR

KIRKLAND, WA 98033

US

425-889-3400

Cage: DO735

Ingredients

AMMONIA (SARA III)

CAS: 7664-41-7

RTECS: BO0875000

Fraction By Weight: >99%

OSHA PEL50 PPM

ACGIH TLV: 25 PPM/35 STEL; 9293

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

Hazards

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

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

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

Health Hazards Acute and Chronic:INHALATION: CORROSIVE TO THE NOSE/THROAT/MUCOUS MEMBRANES/BRONCHITIS/PULMONARY EDEMA/CHEMICAL PNEUMONITIS/COUGHING/CHEST PAIN/DIFFICULTY BREATHING. EYE: CORROSIVE, IRRITATION, DAMAGE, PERMANENT INJURY. SKIN: CORROSIVE, IRRITATION, BURN. INGESTION: SEVERE ABDOMINAL PAIN, NAUSEA,

VOMITING, COLLAPSE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:CHRONIC EXPOSURE CAN RESULT IN BRONCHITIS.

PNEUMONITIS SHOULD BE ANTICIPATED AFTER INHALATION/INGESTION. IF SEVERE EXPOSURE IS SUSPECTED, OBSERVE FOR 48-72 HOURS FOR DELAYED PULMONARY EDEMA.

Medical Cond Aggravated by Exposure:PERSONS W/PRE-EXISTING EYE OR PULMONARY DISEASES MAY BE SUSCEPTIBLE.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MED ATT. EYE: FLUSH W/LOTS OF RUNNING WATER FOR 30 MINS. SKIN: FLUSH W/LOTS OF RUNNING WATER FOR 30 MINS. REMOVE CONT AMINATED CLOTHING/SHOES; WASH BEFORE REUSE. GET MED ATT. INGESTION: DON'T INDUCE VOMITING. IF CONSCIOUS, GIVE LOTS OF WATER. DON'T GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

Fire Fighting

Flash Point:NONE

Lower Limits:16%

Upper Limits:25%

Extinguishing Media:USE WATER SPRAY, DRY CHEMICAL OR CO2.

Fire Fighting Procedures:WEAR SCBA & FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS/STRUCTURES EXPOSED TO HEAT. Unusual Fire/Explosion Hazard:THE EXPLOSIVE RANGE OF AMMONIA WILL BE BROADENED BY REPLACING AIR W/OXYGEN OR INCREASING AMMONIA'S TEMP, PRESSURE & 15-28% AMMONIA IN THE AIR CAN EXPLODE.

Accidental Release

Spill Release Procedures:MOP/WIPE UP/DISPOSE OF IN DOT-APPROVED WASTE CONTAINERS. CONTAIN BY DIKING W/SOIL, OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL/USE WATER SPRAY TO ABSORB/DILUTE AMMONIA GAS. KEEP OUT OF SEWERS/STORM DRAIN S/SURFACE WATERS/SOIL. STOP IF IT'S SAFE TO DO SO.

Handling

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM ACIDS, CHLORINE, & WATER. STORE CYLINDERS UPRIGHT/CHAINED TO PREVENT THEIR FALLING OVER.

Other Precautions:DON'T CUT, GRIND, WELD, OR DRILL ON OR NEAR THIS CONTAINER. EMPTY CONTAINERS CAN HAVE RESIDUES, GASES & MISTS & ARE SUBJECT TO PROPER WASTE DISPOSAL. CONTAINER, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE & VAPORS.

Exposure Controls

Respiratory Protection:APPROPRIATE RESPIRATORS MAY BE A FULL FACEPIECE RESPIRATOR EQUIPPED WITH AMMONIA CARTRIDGES, A SELF-CONTAINED BREATHING APPARATUS IN THE PRESSURE DEMAND MODE, OR A SUPPLIED-AIR RESPIRATOR.

Ventilation:PROVIDE LOCAL EXHAUST/MECHANICAL VENTILATION TO KEEP Protective Gloves:RUBBER

Eye Protection:GOGGLES

Other Protective Equipment:LONG-SLEEVED SHIRT, TROUSERS, SAFETY SHOES, APRON. EYE WASH & SAFETY SHOWER.

Work Hygienic Practices:REMOVE CONTAMINATED CLOTHING & SHOES; WASH BEFORE REUSE.

Supplemental Safety and Health

IT'S GENERALLY RECOGNIZED THAT CONTACT LENSES SHOULDN'T BE WORN WHEN WORKING WITH CHEMICALS BECAUSE CONTACT LENSES MAY CONTRIBUTE TO THE SEVERITY OF AN EYE INJURY.

Chemical Properties

Boiling Pt:B.P. Text:-28F

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

Vapor Pres:5636

Vapor Density:0.60

Spec Gravity:0.69

Evaporation Rate & Reference:(BU AC = 1): >1
Solubility in Water:47%
Appearance and Odor:COLORLESS GAS AT ATMOSPHEREIC, PRESSURE/TEMP,
STRONG, PUNGENT ODOR AS GAS/LIQUI

Stability

Stability Indicator/Materials to Avoid:YES
ACIDS, OXIDIZING MATERIALS, & ALKALIS, CHLORINE, WATER
Stability Condition to Avoid:HEAT, SPARKS, & OPEN FLAMES.
Hazardous Decomposition Products:OXIDES OF NITROGEN

Disposal

Waste Disposal Methods:DISPOSE OF CONTAMINATED PRODUCT & MATERIALS USED
IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS
MATERIAL.

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