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VAN WATERS AND ROGERS -- AMMNONIUM HYDROXIDE -- 6810-00-243-4436

Product ID: AMMNONIUM HYDROXIDE MSDS Date:09/01/1993 FSC:6810 NIIN:00-243-4436 MSDS Number: BHJZZ === Responsible Party === Company Name: VAN WATERS AND ROGERS Address:2256 JUNCTION AVE **City:SAN JOSE** State:CA ZIP:95131 Country:US Info Phone Num:408-435-8700 Emergency Phone Num:408-435-8700/800-424-930 0(CHEMTREC) CAGE:0AN91 === Contractor Identification === Company Name: CHEMICAL COMMODITIES AGENCY, INC. Address:27447 PACIFIC STREET Box:City:HIGHLAND State:CA ZIP:92346-2640 Country:US Phone:909-864-2310 CAGE:60777 Company Name: VAN WATERS AND ROGERS Address:2256 JUNCTION AVE **City:SAN JOSE** State:CA ZIP:95131 Country:US Phone:408-435-8700/800-424-9300(CHEMTREC) CAGE:0AN91

Ingred Name:AMMONIA (SARA III) CAS:7664-41-7 RTECS #:B O0875000 Fraction by Wt: 28-30% Other REC Limits:NONE RECOMMENDED OSHA PEL:35 PPM STEL ACGIH TLV:25 PPM/35 STEL; 9293 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: BALANCE Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 350 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Healt

h Hazards Acute and Chronic:ACUTE: EXTREME IRRITATION AND DESTRUCTION OF TISSUE ON EXPOSED PARTS OF THE BODY. MAY CAUSE PERMANENT EYE INJURY AND BLINDNESS. EXTENSIVE SKIN BURNS MAY CAUSE DEATH. SEVERE COUGHING, BRONCHIAL SPASMS AND DEATH CAN OCCUR. INGESTION OF A TEASPOONFUL CAN CAUSE DEATH. CHRONIC: NONE REPORTED. Effects of Overexposure:EYES: SEVERE IRRITATION, BLINDNESS. SKIN:

SEVERE IRRITATION, POSSIBLE CHEMICAL BURNS AND POSSIBLE TISSUE DAMAGE. MAY BE FATAL. INHALAT

ION: SEVERE IRRITATION OF NOSE AND

THROAT, SEVERE COUGHING AND BRO NCHIAL SPASMS. MAY BE FATAL. INGESTION:SEVERE GASTROINTESTINAL IRRITATION. MAY BE FATAL. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING EYE OR PULMONARY DISEASE.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 30 MINUTES. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. FLUSH WITH LARGE AMOUNTS OF WATER FOR 30
MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. IN HALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEE DOCTOR. INGESTION: DO NOT INDUCE VOMITING. DILUTE WITH WATER. SEE DOCTOR IMMEDIATELY.

Flash Point:NONE Lower Limits:16 Upper Limits:25 Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, OR DRY CHEMICAL. Fire Fighting Procedures:EVACUATE PERSONNEL. WEAR FIRE FIGHTING

PROTECTIVE EQUIPMENT AND A FULL FACED SCBA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY FROM A FAR DISTANCE. Unusual Fire/Explosion Hazard:FLAMMABLE AMMONIA GAS WILL BE LIBERATED AND CAN BE EXPLOSIVE UNDER SOME CONDITIONS. THIS PRODUCT ADDED TO MINERAL ACIDS WILL CAUSE INSTANT BOILING AND EXPLOSION Spill Release Procedures: WEAR PROTECTIVE CLOTHING, RESPIRATOR, SAFETY GLASSES, RUBBER GLOVES AND BOOTS. MOP OR WIPE UP AND PLACE INTO DOT APPROVED DISPOSAL CONTAINER. Neutralizing Agent: DILUTE HYDROCHLORIC ACID FOR LARGE SPILLS. Handling and Storage Precautions: STORE IN COOL, WELL VENTILATED AREA, AWAY FROM ALL SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS TIHGTLY CLOSED. Other Precautions: ZINC, COPPER, AND COPPER BASED ALLOYS SUCH AS BRASS ARE RAPIDLY CORRODED BY MOIST AMMONIA. AVOID USE OF THESE METALS IN AMMONIA SERVICE. USE ALL STEEL STORAGE AND HANDLING EQUIPMENT. VENT CONTAINER FR EQUENTLY, MORE OFTEN IN WARM WEATHER. Respiratory Protection: NIOSH AND US BUREAU OF MINES APPROVED RESPIRATORS FOR AMMONIA. NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS MUST BE USED WHEN EXPOSURE LIMITS ARE EXCEEDED. Ventilation: LOCAL EXHAUST PREFERABLE. INSURE WORK AREA DOES NOT EXCEED 25 PPM. Protective Gloves: RUBBER OR NEOPRENE. Eve Protection: CHEMICAL SPLASH GOGGLES. Other Protective Equipment: RUBBER BOOTS AND APRON. EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING.LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health PIPELINES MUST BE THOROUGHLY FLUSHED OF AMMONIA BEFORE WELDING OR CUTTING TO AVOID POSSIBLE IGNITION OF TRAPPED AMMONIA VAPORS. DO NOT GRIND, WELD, OR DRILL ON OR NEAR THIS CONTA

INER. EMPTY CONTAINERS RETAIN RESIDUE AND VAPORS. TREAT AS IFTHEY WERE FULL. DO NOT PRESSURIZED TO EMPTY CONTAINERS.

HCC:B1 Boiling Pt:B.P. Text:82-105F Melt/Freeze Pt:M.P/F.P Text:-97F,-72C Vapor Pres:560 Vapor Density:0.60 Spec Gravity:0.90-0.913 pH:11-13 Evaporation Rate & amp; Reference:1 (BUTYL ACETATE = 1) Solubility in Water:COMPLETE Appearance and Odor:COLORLESS LIQUID WITH PUNGENT IRRITATING ODOR. Percent Vola tiles by Volume:28-30

Stability Indicator/Materials to Avoid:YES
ACIDS, OXIDIZERS, COPPER, ALUMINUM, ZINC, GALVANIZED METALS, GOLD, SILVER, ALLOYS OF THESE METALS.
Stability Condition to Avoid:LIQUID WILL NOT BURN, BUT VAPORS MAY IGNITE. AVOID EXPOSURE OF VAPORS TO IGNITION SOURCES.
Hazardous Decomposition Products:AMMONIA GAS AND OXIDES OF NITROGEN.

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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