ANSUL FIRE PROTECTION, WORMALD U.S. INC. -- NITROGEN CARTRIDGE FOR ANSUL EXTINGUISHER -- 4210-01-059-4743 Product ID:NITROGEN CARTRIDGE FOR ANSUL EXTINGUISHER MSDS Date:06/01/1989 FSC:4210 NIIN:01-059-4743 MSDS Number: BJYBC === Responsible Party === Company Name: ANSUL FIRE PROTECTION, WORMALD U.S.INC. Address: ONE STANTON STREET **City:MARINETTE** State:WI ZIP:54143-254 2 Country:US Info Phone Num:715-735-7411 Emergency Phone Num:715-735-7411 CAGE:03670 === Contractor Identification === **Company Name: ALL-SAFE INC** Address:4767 LANGTON RD Box:116 City:HIILIARD State:OH ZIP:43026 Country:US Phone:614-876-4041 CAGE:2X264 Company Name: ANSUL INC Address: ONE STANTON STREET Box:City:MARINETTE State:WI ZIP:54143-2542 Country:US Phone:715-735-7411 CAGE:03670 Company Name: HILLER SYSTEMS INC Address:833 PRINCIPAL LN Box:City:CHESAPEAKE State:VA ZIP:23320 Country:US Phone:75

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7-549-9123 Contract Num:SP0560-99-M-H005 CAGE:1DA54

Ingred Name:NITROGEN CAS:7727-37-9 RTECS #:QW9700000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED ACGIH TLV: ASPHYXIANT: 9192 LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazar ds Acute and Chronic: ACUTE: EVAPORATION OF THE LIQUID FROM THE SKIN CAN PRODUCE FROSTBITE-AVOID N2 LIQUID. IN HIGH CONCENTRATIONS THIS IS A SIMPLE ASPHYXIANT - DIZZINESS, SHORTNESS OF BREATH, UNCONSCIOUSNESS, OR SUFFOCATION CAN OCCUR. ANY COMPRESSED GAS CAN BE ATMECHANICAL HAZARDS. CAN CAUSE COMPRESSED AIR ILLNESS WITH CHRONIC OVEREXPOSURE Explanation of Carcinogenicity: THIS MATERIAL IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN. Effects of Overexposure: FROSTBITE OR C HILLING OF SKIN FROM CRYOGENIC LIQUID. GAS CANDISPLACE OXYGEN FOR BREATHING AND RESULT IN DIZZINESS SHORTNESS OF BREATH. Medical Cond Aggravated by Exposure:NONE KNOWN First Aid:TREAT FOR FROSTBITE IF NEEDED. IF BURNING OR ITCHING SENSATION OF EYES OCCUR, FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING LIDS OPEN AND SEEK MEDICAL ATTENTION. SKIN: WASH THE MATERIAL OFF THE SKIN W ITH COPIOUS AMOUNTS OF SOAP AN D WATE FOR AT LEAST 15 MINUTES. IF REDNESS, ITCHING, OR BURNING OCCURS, GET MEDICAL HELP. INHALE: REMOVE VICTIM TO FRESH AIR IN CASE OF OVERDOSE. GIVE MOUTH-TO-MOUTH ART IFICAIAL RESPIRATION IF NEEDED. GIVE OXYGEN IF BREATHING IS DIFFICULT. Flash Point:NONE

Fire Fighting Procedures: GAS CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES - REMOVE CYLINDERS FROM FIRE OR HIGH TEMPERATURE TO AVOID DANGER OF RUPTURE. Unusual Fire/Explosion Hazard:NONE REPORTED BY MANUFACTURER. Spill Release Procedures: EVACUATE ALL PERSONNEL FROM RELEASE AREA. VENTILATE TO OUTSIDE. Neutralizing Agent:NOT APPLICABLE. Handling and Storage Precautions: PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE AWAY FROM EXTREME HEAT. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY. Other Precautions: DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION. STORE CYLINDERS IN A CLEAN, DRY, WELL VENTILLATED AREA AWAY FR HEAT ABOVE 125F. KEEP CYLINDER CAPPED AND SECURED AGAINST MOVEME NT WHEN NOT IN USE. Respiratory Protection: SCBA MAY BE NEEDED FOR PROLONGED EXPOSURE. Ventilation: LOCAL EXHAUST MAY BE NEEDED FOR CONFINED SPACE USE. GENERAL **MECHANICA** L VENTILATION IS ALWAYS RECOMMENDED. Protective Gloves: WORK GLOVES FOR HANDLING CYLINDERS. Eye Protection: APPROVED SAFETY GLASSES OR FACE SHIELD. Other Protective Equipment: SAFETY SHOES AND HEARING PROTECTION. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS. Supplemental Safety and Health SPECIAL GLOVES, FACE SHIELD, AND OTHER PROTECTIVE CLOTHING MAY BE NEEDED IF HANDLING LIQUID. KEY: HMIS **RECORD COPIED FROM ANOTHER** HMIS RECORD FOR A NITROGEN CYLINDER FROM THE SAME MANUFACTURER. HCC:G3 Boiling Pt:B.P. Text:-320F,-196C Vapor Density:0.98 AIR=1 Solubility in Water:SLIGHT Appearance and Odor:COLORLESS,ODORLESS GAS Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES CAN REACT VIOLENTLY WITH LITHIUM (LI), NEODYMIUM (ND)

## AND TITANIUM (TI) UNDER CERTAIN CONDITIONS. Stability Condition to Avoid:NONE REPORTED BY MANUFACTURER Hazardous Decomposition Products:NONE

Waste Disposal Methods: MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD.ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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