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ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE -- 4210-00-251-7491

Product ID:CARBON DIOXIDE MSDS Date:06/01/1989 FSC:4210 NIIN:00-251-7491 MSDS Number: BKCDL === Responsible Party === Company Name: ANSUL FIRE PROTECTION, WORMALD U.S.INC. Address: ONE STANTON STREET City:MARINETTE State:WI ZIP:54143-2542 Country:US Info Phone Num:715-735-7411 **Emergency Pho** ne Num:715-735-7411 CAGE:03670 === Contractor Identification === **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:757-549-9123 CAGE:1DA54

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100% Other REC Limi ts:NONE SPECIFIED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Effects of Overexposure:SEE HEALTH HAZARDS SECTION. Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS

First Aid:GET MEDICAL ATTEN

TION.INHALATION:REMOVE TO FRESH AIR QUICKLY.GIVE CPR/OXYGEN IF NEEDED.EYES:IMMEDIATELY FLUSH WITH PLENTY OF TEPID WATER/STERILE SALINE.SKIN:FLUSH WITH LUKEWARM WATER.DO NOT USE HOT WA TER.PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2.RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS.

Flash Point:NONE

Extinguishing Media: MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: THIS IS AN EXTINGUISHING AGENT.

Unusual Fire/Explosion Hazard: THOUGH GAS CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, THEY SHOULD BE REMOVED FROM HIGH TEMPERATURES OR FIRE TO AVOID RISK OF RUPTURE.

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. PROVIDE VENTILATION TO AREA AND AVOID CONTACT WITH SOLID OR LIQU ID AND EXCESSIVE INHALATION OF VAPOR. VALVE OFF CARBON DIOXIDE S UPPLY FROM LEAKING OR BROKEN COMPONENTS.

Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions:STORE IN A COOL,DRY,VENTILATED PLACE AWAY FROM HEAT ABOVE 120F.

Other Precautions: AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES OR SKIN. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH FULL FACE PIECE AND ESCAPE AIR SUPPLY OR SELF CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE. Ventilation: SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST SHOULD BE LOCATED NEAR THE FLOOR. Protective Gloves: INSULATED AND COLD RESISTANT Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD Other Protective Equipment: EYE WASH STATION AND S AFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED. Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

HCC:G3 Vapor Pres:42928 Vapor Density:1.5 Spec Gravity:1.98 Solubility in Water:88 ML CO2/100 ML Appearance and Odor:COLORLESS GAS WITH NO ODOR Percent Volatiles by Volume:100

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

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Stability Indicator/Materials to Avoid:YES SODIUM PEROXIDE+AL/MG,REACTIVE METALS (ALKALI METALS,MG,AL,TITANIUM/ZIRCONIUM),THEIR HYDRIDES,AND DIETHYL MAGNESIUM Stability Condition to Avoid:EXCESSIVE HEAT AND FLAMES Hazardous Decomposition Products:NONE

Waste Disposal Methods:CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED OUT OF DOORS AND ALLOWED TO SUBLIM

ATE.ALLOW GAS TO BLEED OFF AT A MODERATE RATE.DISPOSAL SHOULD BE IN ACCORDAN CE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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