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ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE -- 4210-01-042-3400

Product ID:CARBON DIOXIDE

MSDS Date:05/15/1991

FSC:4210

NIIN:01-042-3400

MSDS Number: BPGDN === 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

Phone Num:715-735-7411/800-424-9300(CHEMTREC)

Preparer's Name: DOD-HMIS (DGSC-SSH)

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

======= Composition/Information on Ingredients ========

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 Fraction by Wt: 100%

Other REC Limits: NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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| ======= Hazards Identification =========== |
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| 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 Health Hazards Acute and Chronic:ACUTE:PHYSICAL CONTACT WITH LIQUEFIED/SOLID CARBON DIOXIDE CAN CAUSE FROSTBITE OR FREEZE BURNS.INHALATION OF VAPOR IN CONCENTRATION OF 3-5% BY VOLUME IN AIR CAUSES INCREASED RESPIRATION & HEADACHE;8-1 5% CAUSES HEADACHE,NAUSEA,VOMITI NG & UNCONSCIOUSNESS.HIGHER CONCENTRATION MAY LEAD TO COMA & DEATH.CHRONIC:UNKNOWN. Effects of Overexposure:VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING AVAILABLE OXYGEN FOR BREATHING. MAY CAUSE DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, HEADACHE, DIFFICULTY BREATHING, DROWS INESS, DEPENDING ON LENGTH OF EXPOSURE AND CONCENTRATIONS. Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS |
| ====================================== |
| ====================================== |
| First Aid:GET MEDICAL ATTENTION.INHALATION:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.EYES:IMMEDIATELY FLUSH WITH PLENTY OF TEPID WATER/STERILE SALINE.SKIN:FLUSH WITH LUKEWARM WATER.DO NOT USE HOT WATER.P ROMPT MEDICAL ATTENTION IS MANDATORY INALL CASES OF OVEREXPOSURE TO CO2.RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELI CONTAINED BREATHING APPARATUS. |
| ============ Fire Fighting Measures ============ |
| Flash Point:NONE Extinguishing Me |

dia:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

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 OR RUPTURE.

======= Accidental Release Measur

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

Neutralizing Agent: NOT APPLICABLE.

=========== Handling and Storage =============

Handling and Storage Precautions:STORE IN A COOL,DRY,VENTILATED PLACE.DO NOT INSTALL

STORAGE VESSELS IN SUB SURFACE, CLOSED AREA OR NEAR HEAT/FLAME.

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

===== Exposure Controls/Personal Protection ========

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:SU

FFICIENT 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 SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

THIS RECORD CREATED BY HMIS IN RESPONSE TO A NEED & REQUEST FROM DDOU.

MSDS COPIED FROM ANOTHER ANSUL CO*2 MSDS FOR A SIMILAR PRODUCT.

======== Physical/Chemical Properties ==========

HCC:G3

Boiling Pt:B.P. Text:SUBLIMES

Decomp Temp:Decomp Text:SUBLIMES

Vapor Pres:42928 @20C

Vapor Density:1.5 Spec Gravity:1.98

Evaporation Rate & Presence: GAS AT ROOM TEMPERATURE

Solubility in Water:88% @ 20C

Appearance and Odor: COLORLESS GAS - NO ODOR

Percent Volatiles by Volume:100

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

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Stability Indicator/Materials to Avoid:YES STRONG BASES, ALKALI METALS Stability Condition to Avoid:FLAMES Hazardous Decomposition Products:NONE

======= Disposal Considerations ===========

Waste Disposal Methods:CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED OUT OF DOORS AND ALLOWED TO SUBLIMATE. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGU LATIONS.

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