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ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE,AGF 0222,55022 4210-01-120-2708

============= Product Identification ========================

Product ID:CARBON DIOXIDE,AGF 0222,55022

MSDS Date:01/25/1993

FSC:4210

NIIN:01-120-2708

MSDS Number: BYCBF === 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 Pho

ne Num:715-735-7411...FAX 715-732-3477

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

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 RECOMMENDED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000S

LD50 LC50 Mixture:TLV IS 5000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, HEART, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIO NS MAY CAUSE RAPID CIRCULATORY

INSUFFICIENCY LEADING TO DEATH. INGESTION IS UNLIKELY TO OCCUR. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE OR SKIN FROSTBITE AND FREEZE BURNS,
HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND
THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS
SALIVATION, SHORTNESS OF BREATH, MUSC ULAR WEAKNESS, RINGING IN THE
EAR, UNCONSCIOUSNESS, COMA, NAUSEA, VOMITING, WATERY EYES
(FORMATION OF WEAK CABONIC ACID)

Medical Co

nd Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE.

First Aid:INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEE AN OPHTHALMOLOGIST, URGENTLY. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 107 F). PROMPT MEDICAL ATTENTION IS MANDATOR

Y IN ALL CASES

OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS. ORAL:NOT LIKELY TO OCCUR.

========== Fire Fighting Measures ===============

Flash Point:NONE

Extinguishing Media:CARBON DIOXIDE CANNOT CATCH FIRE. USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS. COO

L FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.
Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE.
========= Accidental Release Measures ==========
Spill Release Procedures:LIQUID CARBON DIOXIDE WILL FORM SOLID CO2 (DRY ICE) WHEN RELEASED TO ATMOSPHERIC PRESSURE. THE AREA SHOULD BE VENTILATED. CLEAN UP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FA CE MASK AND HEAVY PROTECTIVE CLOTHING. Neutralizing Agent:NOT RELEVANT
========== Handling and Storage ===========
Handling and Storage Precautions:STORE IN A COOL, VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE ABOVE 120F. Other Precautions:KEEP AWAY FROM SOURCES OF HEAT. CAUTION! CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. USE WITH ADEQUATE VENTILATION. CO2 IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR THE FLOOR IN CLOSED S PACES. READ ALL LAB EL INSTRUCTIONS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, NIOSH-APPROVED AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. FOR EMERGENCIES, WEAR SELF CONTAINED BREATHING APPARAT US, OPERATED IN POSITIVE PRESSURE MODE. Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR. Protective Gloves:INSULATED AND COLD RESISTANT NEOPRENE Eye Protection:SAFETY GOGGLES
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED. Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health
=========== Physical/Chemical Properties ==========
HCC:G3 NRC/State Lic Num:NOT RELEVANT

NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:SUBLIMES Vapor Pres:42911 @68F Vapor Density:1.5 Spec Gravity:1 .98 pH:ACIDIC

Viscosity:NOT RELEVANT

Evaporation Rate & Dr. Reference: NOT RELEVANT

Solubility in Water:88 ML/100ML @ 68F

Appearance and Odor: COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

REACTIVE METALS (MAGNESIUM, ALUMINUM), MOIST CESIUM OXIDE, SODIUM PEROXIDE + REACTIVE METALS

Stability Condition to Avoid: EXCESSIVE HEAT (ABOVE 120F)

Hazardous Decomposition Products: CAN

DECOMPOSE TO CARBON MONOXIDE AND

OXYGEN ABOVE 3092F (1700C).

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS IF PERMITTED. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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