

ANSUL FIRE PROTECTION,WORMALD U.S.INC. -- CARBON DIOXIDE -- 4210-00-910-9663
===== Product Identification =====

Product ID:CARBON DIOXIDE
MSDS Date:05/15/1991
FSC:4210
NIIN:00-910-9663
MSDS Number: BKKKD
=== 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 Ph
one 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

===== 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

===== Hazards Identification =====

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

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First Aid Measures
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First Aid:GET MEDICAL ATTENTION.INHALATION:REMOVE TO FRESH AIR.GIVE
CPR/OXYGEN IF NEEDED.EYES:IMMEDIATELY FLUSH WITH PLENTY OF TEPID
WATER/STERILE SALINE.S
KIN:FLUSH WITH LUKEWARM WATER.DO NOT USE HOT
WATER.PROM PT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF
OVEREXPOSURE TO CO2.RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF
CONTAINED BREATHING APPARATUS.

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Fire Fighting Measures
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Flash Point:NONE
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA.
COOL
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:CO2 IS A NON-FLAMMABLE INERT GAS.
HOWEVER, EXPOSURE TO FIRE OR SEVERE OVERHEATING CAN CAUSE CARBON
DIOXIDE CYLINDERS TO BURST.

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Accidental Release Measures
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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. VAL
VE OFF CARBON DIOXIDE S UPPLY FROM LEAKING OR BROKEN
COMPONENTS.
Neutralizing Agent:NOT APPLICABLE.

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Handling and Storage
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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: 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 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

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

HCC: G3

Boiling Pt: B.P. Text: SUBLIMES

Vapor Pres: 42928 @ 20C

Vapor Density: 1.5

Spec Gravity: 1.98

Evaporation Rate & Reference: GAS AT ROOM TEMPERATURE

Solubility in Water: 88 % @ 20C

Appearance and Odor: COLORLESS, ODORLESS
GAS

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

REACTS VIGOROUSLY WITH (AL+NA2O2), LI, K, MG(C2H5)2, (MG+NA2O), NA, TI, NAK

Stability Condition to Avoid: HIGH HEAT AND FLAMES

Hazardous Decomposition Products: NONE

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

Waste Disposal Methods: CONTAMINATED AREA SHOULD BE VENTILATED THOROUGHLY. SOLID CARBON DIOXIDE SHOULD BE REMOVED OUT O

F DOORS AND

ALLOWED TO SUBLIMATE. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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