

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE (FOR FIRE EXTINGUISHER) --
4210-01-374-8128

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

Product ID:CARBON DIOXIDE (FOR FIRE EXTINGUISHER)
MSDS Date:01/12/1996
FSC:4210
NIIN:01-374-8128
MSDS Number: BYFGQ
==== Responsible Party ====
Company Name:ANSUL FIRE PROTECTION, WORMALD U.S.INC.
Address:ONE STANTON STREET
City:MARINETTE
State:WI
ZIP:54143-2542
Co
untry:US
Info Phone Num:715-735-7411X3562/580 TOM LAWSON
Emergency Phone Num: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

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===== 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/3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE:CONTACT W/CO2 SNOW (DRY ICE) CAN
PRODUCE CHILLING SENSATIONS & DISCOMFORT,FROSTBITE.
SKIN:EVAPORATION OF LIQ FRM SKIN CAN PRODUCE CHILLING
SENSATIONS.FROSTBITE CAN OCCUR.AVOID CO2 SNOW (DRY ICE). INHAL:VAP
HEAVIER THAN AIR;CAN CAUSE SUFFOCATION BY REDUCI
NG OXY AVAILABLE
FOR BREATH.BREATH VERY HI VAP CONCEN (SUPPLE)
Explanation of Carcinogenicity:PER MSDS:CHEMICAL LISTED AS CARCINOGEN
OR POTENTIAL:NTP/IARC/OSHA:NO.
Effects of Overexposure:CHILLING SENSATIONS, DISCOMFORT, FROSTBITE.
SUFFOCATION BY REDUCING OXY AVAILABLE FOR BREATHING.
LIGHTHEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, MUSCULAR TREMORS,
WEAKNESS, ACROCYANOSIS. UNCONSCIOUSNESS OR EVEN DEATH.
Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS.

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===== First Aid Measures =====

First Aid:EYE:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS WHILE
HOLDING LIDS OPEN.REDNESS/ITCHING/BURNING SENSATION DEVELOPS GET
MED ATTN.TREAT FOR FROSTBITE IF NECESSARY. SKIN:WASH MATL OFF SKIN
W/COPIOUS AMTS OF SOAP/WATER FOR @LEAST
15MINS.REDNESS/ITCHING/BURNING SENS DEVELOPS GET MED ATTN.TREAT FOR
FROSTBITE IF NECESSARY. INHAL:REMOVE TO FRESH AIR.COUGH/OTHER RESP
SYMPTOMS OCCUR CONSULT MED (SUPPLE)

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

Flash Point:NONE
Extinguishing Media:NOT APPLICABLE PER MSDS. HOWEVER, USE APPROPRIATE
FIRE EXTINGUISHING MEDIA FOR SURROUNDING CONDITIONS.
Fire Fighting Procedures:NONE, THIS IS AN EXTINGUISHING AGENT.
Unusual Fire/Explosion Hazard:THOUGH GAS CYLINDERS ARE EQUIPPED
W/PRESSURE & TEMP RELIEF DEVICES, THEY SHOULD BE REMOVED FROM HIGH
TEMPERATURES OR FIRE TO AVOID RISK OF RUPTURE.

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===== Accidental Release Meas

ures =====

Spill Release Procedures:EVACUATE AREA. VENTILATE TO OUTSIDE ATMOSPHER.
COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED
FLAMES.

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

Handling and Storage Precautions:STORE CNTNRS IN CLEAN DRY WELL-VENTI
AREA,AWAY FRM HEAT >120F.STORE AS COMPRESSED GAS IN DOT APPROVED
VESSELS.CYL/CARTRIDGE NOT ATTACHED TO(OTHR PREC)

Other Precautions:HNDLG/STORG:SY MUST BE SAF CAPPED TO PROT
AGAINST
VIOLENT VESSEL MOVEMENT/FORCE OF ESCAPING GAS IF ACTUATE/SEAL
PUNCTURED.NOTE:AS USED IN ANSUL EXTINGUISHERS/CARTRIDGES/CYL CO2 IS
GAS COMPRESSED UNDE R PRESSURES UP TO 860 PSI@70F.

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

Respiratory Protection:NOT NORMALLY NECESSARY IF CONTROLS ARE ADEQUATE.
IF TLV IS EXCEEDED OR IF EXPOSURE IS PROLONGED A SELF-CONTAINED
BREATHING APPARATUS IS RECOMMENDED.

Ventilation:LOCAL EXHAUST:RECOMMENDED IN CONFI
NED SPACES. MECHANICAL

(GENERAL):RECOMMENDED.

Protective Gloves:FOR CONTACT W/DRY ICE.

Eye Protection:CHEM GOGG,FULL FACESHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING FOR CONTACT W/DRY ICE.

Work Hygienic Practices:FOLLOW GOOD WORK HYGENIC PRACTICES.

Supplemental Safety and Health

HEALTH HAZ:CAN CAUSE LIGHTHEADEDNESS,GIDDINESS,SHORTNESS OF
BREATH,MUSCULAR TREMORS,WEAKNESS,ACROCYANOSIS.ALSO UNCONSC OR EVEN
DEATH. 1ST AID:PERSONNEL.NOT BREATH GIVE ART RESP PREFERABLY
MOUTH-T

O-MOUT H.BREATH DIFFICULT GIVE OXY.CONSULT MEDPERSONNEL.

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

HCC:G3

Boiling Pt:B.P. Text:SUBLIMES

Vapor Pres:830 @20C

Vapor Density:1.5

Spec Gravity:1.98

Evaporation Rate & Reference:N/A, GAS @ROOM TEMP

Solubility in Water:APPREC 88ML/100MLH2O

Appearance and Odor:COLORLESS GAS W/NO ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid

:YES
REACTS VIGOROUSLY W/ (AL + NA₂CO₂), CS₂O, LI, K, MG(C₂H₅)₂, (MG + NA₂O), KHC₂, NA, NA₂C₂.

Hazardous Decomposition Products:NONE.

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

Waste Disposal Methods:DISPOSE OF IN COMPLIANCE W/LOCAL, STATE, FEDERAL REGULATIONS.

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