

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE -- 4210-00-134-8958
===== Product Identification =====

Product ID:CARBON DIOXIDE
MSDS Date:01/25/1993
FSC:4210
NIIN:00-134-8958
MSDS Number: BNSXX
=== 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...FAX 71
5-732-3477
Emergency Phone Num:715-735-7411...TOM LAWSON EXT 580
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;94

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azards Identification =====

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-CONTACT WITH COLD VAPOR/SOLID CARBON DIOXIDE CAN CAUSE EYE/SKIN FROSTBITE AND FREEZE BURNS. ASPHYXIANT BY INHALATION & HEAVIER THAN AIR. CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE. BREAT HING HIGH CONCENTRATIONS WILL CAUSE L

IGHTHEADEDNESS, SHORTNESS OF BREATH. INGESTION IS UNLIKELY. CHRONIC-UNKNOWN.

Explanation of Carcinogenicity:MFR GAVE THE ABOVE LISTINGS ON THE MSDS BUT NO OTHER COMMENTS WERE RECORDED.

Effects of Overexposure:DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, HEADACHES, TINNITUS, DIFFICULTY BREATHING, AND/OR DROWSINESS DEPENDING ON LENGTH OF EXPOSURE & CONCENTRATIONS.

Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS

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

First Aid:IF ANY IRRITATION PERSISTS OR SEVERE, GET MEDICAL ATTENTION. TREAT FOR FROSTBITE IF NECESSARY. EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. INHALED:REMOVE FROM CONTAMINATED AREA. IF SYMPTOM S OCCUR, CONSULT MEDICAL PERSONNEL. AIDOR RESTORE BREATHING AS NEEDED. INGESTED:MFR GAVE NO INFORMATION ON MSDS.

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

Flash Point:NONE

Extinguishing Media:THIS IS AN EXTINGUISHING AGENT.

HMIS:USE

EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NONE - 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.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE PERSONNEL. VENTILATE TO OUTSIDE ATMOSPHERE. COOL OR REMOVE HOT

, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED FLAMES.

Neutralizing Agent:MFR GAVE NO INFORMATION ON MSDS.

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

Handling and Storage Precautions:STORE IN A CEAN, DRY, WELL-VENTILATED AREA AWWAY FROM HEAT ABOVE 120F. STORE AS A COMPRESSED GAS IN DOT APPROVED VESSELS.

Other Precautions:IF NOT ATTACHED TO A SYSTEM, CYLINDER/CARTRIDGE MUST BE SAFETY CAPPED TO PROTECT AGAINST VIOLENT VELLEL MOVEMENT OR FORCE OF EXCA PING GAS IF VALVE IS ACTUATED OR SEAL IS PUNCTURED. NOTE INCOMPATIBILIT Y INFORMATION.

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===== 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:MECHANICAL (GENERAL) VENTILATION IS RECOMMENDED W/LOCAL EXHAUST RECOMMENDED FOR CONFINED SPACES.

Protective Gloves:FOR CONTACT W/DRY ICE

Eye P

rotection:CHEMICAL GOGGLES + FACE SHIELD

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

Work Hygienic Practices:MFR:?. HMIS:USE GOOD CHEMICAL HYGIENE PRACTICES. AVOID CONTACT IF AT ALL POSSIBLE. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

NONE

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

HCC:G3

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:SUBLIMES

Vapor Pres:830 PSI

Vapor Density:1.5

Spec Gravity:1.98

Evaporation Rate &am

p; Reference:GAS AT ROOM TEMPERATURE
Solubility in Water:88ML/100 ML
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+NA2O2), CS2O, LI, K, MG(C2H5) 2, (MG+NA2O),
KHC2, NA, NA2C2, NAK, TI
Hazardous Decomposition Products:NONE
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====
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Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL
REGULATIONS.

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