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ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARBON DIOXIDE -- 4810-01-286-9764

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

Product ID:CARBON DIOXIDE

MSDS Date:01/12/1996

FSC:4810

NIIN:01-286-9764

MSDS Number: CDGYC === 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 715-7

32-3477

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

Company Name: NINETECH INTL INC

Address:1064 ROSELLE PL

Box:City:WOODMERE

State:NY ZIP:11598 Country:US

Phone:516-887-7943

CAGE:0GKF8

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

Ingred Name: CARBON DIOXIDE

CAS:124-38-9 RTECS #:FF64000 Fraction by Wt: 100%

Other REC Limits: NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;96

========== Hazards 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 INHA

LATION & HEAVIER THAN AIR. CAN CAUSE SUFFOCATION
BY REDUCING OXYGEN AVAILABLE. BREAT HING HIGH CONCENTRATIONS WILL
CAUSE LIGHTHEADEDNESS, 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 EXPO

SURE & CONCENTRATIONS.

Medical Cond Aggravated by Exposure: RESPIRATORY PROBLEMS

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.

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======= 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

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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.

=========== 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 EXCAPING GAS IF VALVE IS ACTUATED OR SEAL IS PUNCTURED. NOTE INCOMPATIBILITY INFORMATION.

===== 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 (GENE

RAL) VENTILATION IS RECOMMENDED W/LOCAL

EXHAUST RECOMMENDED FOR CONFINED SPACES.

Protective Gloves:FOR CONTACT W/DRY ICE

Eye Protection: 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

P/N ON CTDF: 17284; P/N GIVEN BY DDRV ON TECH SUPPORT SHEET: 17492.

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

HCC:G3

Boiling Pt:B.P. Text:SUBLIMES

Vapor Pres:42928 MMHG

Vapor Density:1.5 Spec Gravity:1.98

Evaporation Rate & Presence: GAS AT ROOM TEMPERATURE

Solubility in Water: APPRECIABLE

Appearance and Odor: COLORLESS GAS WITH 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 ===========

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

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