

ANSUL FIRE PROTECTION, WORMALD -- CARBON DIOXIDE,25375

MSDS Safety Information

FSC: 4210
NIIN: 01-265-0443
MSDS Date: 01/12/1996
MSDS Num: BZPLS
Product ID: CARBON DIOXIDE,25375
MFN: 02
Kit Part: Y
Responsible Party
Cage: 03670
Name: ANSUL FIRE PROTECTION, WORMALD U.S.INC.
Address: ONE STANTON STREET
City: MARINETTE WI 54143-2542
Info Phone Number: 715-735-7411...FAX 715-732-3477
Emergency Phone Number: 715-735-7411/800-424-9300(CHEMTREC)
Preparer's Name: UNKNOWN
Proprietary Ind: Y
Review Ind: Y
Published: Y

Contractor Summary

Cage: 03670
Name: ANSUL INC
Address: ONE STANTON STREET
City: MARINETTE WI 54143-2542
Phone: 715-735-7411

Item Description Information

Item Manager: S9I
Item Name: EXTINGUISHER,FIRE
Specification Number: MIL-E-24091
Type/Grade/Class: CLASS 2,SIZE 2
Unit of Issue: EA
UI Container Qty: 1
Type of Container: CARTRIDGE

Ingredients

Name: *** PROPRIETARY ***

=====

Health Hazards Data

=====

LD50 LC50 Mixture: TLV IS 5000 PPM.

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: TARGET ORGANS:LUNGS, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIAN. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIONS MAY CAUSE RAPID CIRCULATORY INSUFFI

CENCY LEADING TO DEATH. INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.

Explanation Of Carcinogenicity: NONE

Signs And Symptoms 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 Cond Aggrava

ted 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 MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CO NTAINED BREATHING APPARATUS. ORAL:NOT LIKELY.

=====

Handling and Disposal

=====

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

Waste Disposa

I Methods: SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICATE A DEFECT.

Handling And Storage Precautions: STORE IN A COOL, WELL-VENTILATED PLACE. DO NOT STORE ABOVE 120F. KEEP OUT OF REACH OF CHILDREN.

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 SPACES.

READ ALL LABELS INSTRUCTIONS.

=====

Fire and Explosion Hazard Information

=====

Flash Point Text: 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. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.

Unusual Fire/Explosion Hazard: THOUGH GAS CYLINDERS ARE EQUIPPED WITH PRESSURE RELIEF DEVICES, THEY SHOULD BE REMOVED FROM FIRE TO AVOID RISK OF RUPTURE.

=====

Control Measures

=====

Respiratory Protection: NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT.

THE RESPIRATORY PROTECTION USE MUST CONFORM WITH OSHA RULES AS SPECIFIED IN 29 CFR 1910.134.

Ventilation: SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR.

Protective Gloves: INSULATED AND COLD RESISTANT NEOPRENE

Eye Protection: SAFETY GOGGLES RECOMMENDED

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: KEY1:G3. THIS IS THE PROPELLANT PART OF THE FIRE EXTINGUISHER.

=====

Physical/Chemical Properties

=====

HCC: G3

NRC/State LIC No: NOT RELEVANT

B.P. Text: SUBLIMES

M.P/F.P Text: UNKNOWN

Decomp Text: UNKNOWN

Vapor Pres: 43671 @68F

Vapor Density: 1.5

Spec Gravity: 1.98

PH: ACIDIC

Evaporation Rate & Reference: NOT

RELEVANT (GAS)
Solubility in Water: 88% @ 68F (20C)
Appearance and Odor: COLORLESS, ODORLESS GAS
Percent Volatiles by Volume: 100
Corrosion Rate: UNKNOWN

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: OVERHEATING CYLINDERS
Materials To Avoid: (AL+NA2O2), CS2O, LITHIUM, POTASSIUM, MG(C2H5)2, (MG+NA2O), SODIUM
Hazardous Decomposition Products: NONE
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NOT RELEVANT

Toxicological Information

Ecological Information

MSDS Transport Information

Regulatory Information

Other Information

Transportation Information

Responsible Party Cage: 03670
Trans ID NO: 119775
Product ID: CARBON DIOXIDE,25375
MSDS Prepared Date : 01/12/1996
Review Date: 07/22/1996
MFN: 2
Net Unit Weight: 27 LBS
Multiple KIT Number: 0
Kit Part IND: Y
Review IND: Y
Unit Of Issue: EA
Container QTY: 1
Type Of Container: CARTRIDGE
Additional Data: CONTAINS 8.25 OZ OF CARBON DIOXIDE, PER MANUFACTURER.

Detail DOT Information

DOT PSN Code: CUX
DOT Proper Shipping Name: CARBON DIOXIDE
Hazard Class: 2.2
UN ID Num: UN1013
Label: NONFLA

MMABLE GAS
Packaging Exception: 306
Non Bulk Pack: 302,304
Bulk Pack: 302,314,315
Max Qty Pass: 75 KG
Max Qty Cargo: 150 KG
Vessel Stow Req: A

=====

Detail IMO Information

=====

IMO PSN Code: DOH
IMO Proper Shipping Name: CARBON DIOXIDE
IMDG Page Number: 2111
UN Number: 1013
UN Hazard Class: 2(2.2)
IMO Packaging Group: -
Subsidiary Risk Label: -
EMS Number: 2-09
MED First Aid Guide NUM: 615

=====

Detail IATA Information

=====

IATA PSN Code: FHH
IATA UN ID Num: 1013
IATA Proper Shipping Name: CARBON DIOXIDE +
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
Packing Note Passenger: 200
Max Quant Pass: 75KG
Max Quant Cargo: 150KG
Packaging Note Cargo: 200

=====

Detail AFI Information

=====

A
FI PSN Code: FHH
AFI Proper Shipping Name: CARBON DIOXIDE
AFI Hazard Class: 2.2
AFI UN ID NUM: UN1013
Special Provisions: P5
Back Pack Reference: A6.3,A6.5,A6.6

=====

HAZCOM Label

=====

Product ID: CARBON DIOXIDE,25375
Cage: 03670
Company Name: ANSUL INC
Street: ONE STANTON STREET
City: MARINETTE WI
Zipcode: 54143-2542
Health Emergency Phone: 715-735-7411/800-424-9300(CHEMTREC)
Label Required IND

: Y

Date Of Label Review: 07/22/1996

Status Code: C

MFG Label NO: UNKNOWN

Label Date: 07/22/1996

Year Procured: 1989

Origination Code: F

Signal Word: WARNING

Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS:LUNGS, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIA. INHALATION MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY. INGESTION IS NOT LIKELY. CHRONIC- UNKNOWN. STORE IN VENTILATED PLACE. IF LEAKING, AREA SHOULD BE VENTILATED. FIRST AID- INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. SEE AN OPHTHALMOLOGIST. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 107F). PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS. ORAL:NONE

=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.