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ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- CARNONIC ACID; CARBON DIOXIDE

4210-00-413-4528

Product ID:CARNONIC ACID;CARBON DIOXIDE

MSDS Date:02/01/1999

FSC:4210

NIIN:00-413-4528

MSDS Number: BJJDY

=== 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 N

um:715-735-7411

Emergency Phone Num:715-735-7411

Preparer's Name: SAFETY & HEALTH DEPT

Chemtrec Ind/Phone:(800)424-9300

CAGE:03670

=== Contractor Identification ===

Company Name: ALL-SAFE INC

Address:4767 LANGTON RD

Box:116

City:HIILIARD

State:OH

ZIP:43026

Country:US

Phone:614-876-4041

CAGE:2X264

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: FIRE AND TECHNICAL EQUIPMENT COPR

CAGE:59920 Company Name

:KEYSTONE FIRE PROTECTION CO. Address: 108 PARK DRIVE, SUITE 3 Box:City:MONTGOMERYVILLE State:PA ZIP:18936 Country:US Phone:215-641-0100/ FAX 215-641-9638 Contract Num:SP0560-99-M-H044 CAGE:1U693 ======= Composition/Information on Ingredients ========= Ingred Name: CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100.0% Other REC Limits: NONE SPECIFIED OSHA PEL:5000 PPM ACGIH TLV:5000PPM/30000STEL;93 =========== Hazards Identification ================= L D50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYES:CONTACT W/CO*2 SNOW(DRY ICE) CAN PRODUCE CHILLING SENSATIONS & DISCOMFORT, FROSTBITE. SKIN: EVAP OF LIQ FROM SKIN CAN PRODUCE CHILLING SENSATIONS, FROSTBITE, AVOID CO*2 SNOW(DRY ICE).INHAL: VAPOR S HEAVIER THAN AIR CAN CAUSE SUFFOCATIONBY REDUCING OXYG AVAIL FOR BRTHG. BRTHG HIGH CONC VAP

OR

CAN CAUSE(SEE SUPP DATA)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: ACUTE: DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, HEADACHES, TINNITUS, DIFFICULTY BREATHING, DROWSINESS, DEPENDING ON LENGTH OF EXPOSURE AND CONCENTRATIONS. CHRONIC: NONE KNOWN WHEN OCC UPATIONAL EXPOSURES ARE BELOW THE TLV. Medical Cond Aggravated by Exposure: RESPIRATORY PROBLEMS

First Aid:EYES: IMMED

FLUSH W/PLENTY WATER 15 MIN WHILE HOLDING LIDS
OPEN. IF REDNESS, ITCHING, OR A BURNING SENSATION DEVELOPS, GET
MED ATTN. TREAT FOR FROSTBITE IF NEC. SKIN: WASH MATL OFF W/COPIOUS
AMTS OF SOAP & WATER AT LEAST 15 MIN. IF REDNESS, ITCHING, OR
BURNING SENSATION DEVELOPS, GET MED ATTN. TREAT FOR FROSTBITE IF
NEC. INHAL: REMOVE TO FRESH AIR. IF COUGH/RESPIRARY SYMPTOMS (SEE
SUPP DATA)

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

Flash Point:NONE

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 AREA; VENTILATE TO OUTSIDE ATMOSPHERE. COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED FLAMES.

Neutralizing Age

nt:NONE SPECIFIED BY MANUFACTURER.

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

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

Other Precautions:IF CYLINDER OR CARTRIDGE IS NOT ATTACHED TO A SYSTEM, IT MUST BE SAFETY CAPPED TO PROTECT AGAINST VIOLENT VESSEL MOVEMENT OR FORCE OF ESCAPING GAS IF VALVE IS ACTUATED OR SEAL IS PUNCTURED.

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

Respiratory Protection: NOT NORMALLY NECESSARY IF CONTROLS ARE ADEQUATE. IF TLV IS EXCEEDED OR EXPOSURE IS PROLONGED, ASELF-CONTAINED EATHING APPARATUS IS RECOMMENDED.

Ventilation:LOCAL EXHAUST RECOMMENDED IN CONFINED SPACES. MECHANICAL RECOMMENDED.

Protective Gloves:FOR CONTACT WITH DRY ICE

Eye Protection: CHEM ICAL GOGGLES, FULL FACESHLD

Other Protective Equipment:PROTECTIVE CLOTHING FOR CONTACT WITH DRY ICE.

Work

Hygienic Practices: NONE SPECIFIED BY MANUFACTURER Supplemental Safety and Health

HEALTH HAZARD: LGHT HEAD, GIDD, SHORTNESS OF BREATH, MUSCULAR TREMORS & WEAKNESS, ACROCYANOSIS. ALSO UNCON/EVEN DEATH. EMERGENCY FIRST AID PROCEDURES: OCCUR, CONSULT MD. IF NOT BRTHING, GIVE ARTIFICIA L RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BRTHING DFCLT GIVE OXYG. CONSULT MD. INGEST: GET MD IMMED.

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

HCC:G3

Vapor Pres:830PSI@20C

Vapor Density:1.5 Spec Gravity:1.98

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

Solubility in Water:88ML CO*2/100ML H*2O

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 WITH (AL + NA*20*2), CS*20, LI, K, MG(C*2H*5)*2, (MG + NA*20), KHC*2, NA, NA*2C*2, NAK, TI.
Hazardous Decomposition Products:NONE

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

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