View NSN Online: https://aerobasegroup.com/nsn/4210-00-413-4529 ANSUL INC -- CARBON DIOXIDE -- 4210-00-413-4529 ============ Product Identification ========================= Product ID:CARBON DIOXIDE MSDS Date:02/01/1999 FSC:4210 NIIN:00-413-4529 Status Code:A MSDS Number: CKWMV === Responsible Party === Company Name: ANSUL INC Address: ONE STANTON STREET City:MARINETTE State:WI ZIP:54143-2542 Country:US Info Phone Num:715-735-7411 Emergency Phone Num:800-424-9300; 703-527-3887 Chemtrec Ind/Phone:(800)424-9300 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 Contract Num:SP0560-00-M-H007 CAGE:03670 ======= Composition/Information on Ingredients ======== Ingred Name: CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 = Wt:100.OSHA PEL:9000 MG/M3;5000 PPM

ACGIH TLV:5000 PPM ACGIH STEL:54000 MG/M3

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

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: CONTACT WITH CO2 SNOW(DRY ICE)
CAN PRODUCE CHILLING SENSATIONS AND DISCOMFORT, ALSO FROSTBITE.
SKIN: EVAPORATION OF LIQUID CAN PRODUCE CHILLING SENSATIONS.
FORSTBITE CAN OCCUR. AVOID CO2 SNOW(DRY ICE). INHALTION: VAPOR IS
HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN
AVAILABLE FOR BREATHING. BREATHIN

G VERY HIGH CONCENTRATIONS OF

VAPOR CAN CAUSE LIGHTHEADEDNESS, GIDDINESS, SHOR TNESS OF BREATH, MUSCULAR TREMORS AND WEAKNESS, ACROCYANOSIS. ALSO, UNCONSCIOUSNESS OR EVEN DEATH. INGESTION: IS NOT LIKELY TO OCCUR SINCE THIS MATERIAL IS GAS AT ROOM TEMPERATURE.

Effects of Overexposure:ACUTE: DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, HEADACHES, TINNITIS, DIFFICULTY BREATHING, DROWSINESS, DEPENDING ON LENGTH OR EXPOSURE AND CONCENTRATIONS. CHRONIC: NONE KNO

WN WHEN OCCU PATIONAL EXPOSURES ARE BELOW TLV. Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS.

First Aid:EYE-IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINS WHILE HOLDING LIDS OPEN. IF REDNESS, ITCHING, OR BURNING SENSATION OCCUR, GET MEDICAL AID. TREAT FOR FROSTBITE IF NEEDED. SKIN-WASH MATERIAL OFF SKIN WITH COPIOUS AMOUNTS OF SOAP & WATER FOR 15 MINS. IF REDNESS, ITCHING OR BURNING SENSATION D

EVELOPS, GET MEDICAL AID.

TREAT FOR FROSTBITE IF NEEDED. INHALATION-REMOVE VICTIM TO FRESH AIR. IF COUG H/OTHER RESPITATORY SYMPTOMS OCCUR, CONSULT MEDICAL PERSON. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CONSULT MEDICAL PERSON. IN GESTION-NOT AN EXPECTED ROUTE OF ENTRY.

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Flash Point:NONE

Fire Fighting Procedures: NONE THIS IS AN EXTING

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UISHING 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.
THOM FIGHT FEMILE PORTED ON TIME TO AVOID THOM FORE.
========= Accidental Release Measures ==========
Spill Release Procedures:EVACUATE AREA; VENTILATE TO OUTSIDE ATMOSPHERE. COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED FLAMES.
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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. IF CYLINDER OR CARTRIDGE IS NOT ATTACHED TO A SYSTEM, IT MUST BE SA FETY CAPPED TO PROTECT AGAINST VIOLENT VESSEL MOVEMENT OR FORCE OF ESCAPING GAS IF VALVE IS ACTUATED
Other Precautions:IF CYLINDER OR CARTRIDGE IS NOT ATTACHED TO A SYSTEM, IT MUST BE SAFETY CAPPED TO PROTECT AGAINST VIOLENT VESSEL MOV
EMENT
OR FORCE OF ESCAPING GAS IF VALVE IS ACTUATED OR SEAL IS PUNCTURED. NOTE INCOM PATIBILITY INFORMATION IN REACTIVITY SECTION.
====== 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 CONFINED SPACES. MECHANICAL(GENERAL): RECOMMENDED. Protective GI
oves:FOR CONTACT WITH DRY ICE. Eye Protection:CHEMICAL GOGGLES FOR LIQUID; FULL FACESHIELD IN ADDITION
IF SPLASHING POSSIBLE
Other Protective Equipment:PROTECTIVE CLOTHING FOR CONTACT WITH DRY ICE.
Supplemental Safety and Health
COMMON NAME: CARBON DIOXIDE. TRADE NAME & SYNONYMS: CARBONIC ACID.

CARBONIC ANHYDRIDE. CAS NO.: 124-38-9. CHEMICAL NAME: CARBON DIOXIDE. CHEMICAL FAMILY: GAS (NON METALLIC OXIDE). FORMULA: CO2.

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

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HCC:G3 Boiling Pt:B.P. Text:SUBLIMES Vapor Pres:830PSI@20C Spec Gravity:1.98 Evaporation Rate & amp; Reference:N/A GAS @ ROOM TEMPERATUR Solubility in Water:88ML CO2 PER 100ML H2O Appearance and Odor:COLORLESS ODORLESS GAS Percent Volatiles by Volume:100%
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES REACTS VIGOROUSLY WITH (AL + NA202), CS20, LI, K, MG(C2H5)2, MM + NA2O). KHC2, NA, NA2C2, NAK, TI. Hazardous Decompos ition Products:NONE
========== Toxicological Information ==========
Toxicological Information:NOTE: US USED IN ANSUL EXTINGUISHERS, CARTRIDGES, OR CYLINDERS, CO2 IS A GAS COMPRESSED UNDER PRESSURE UP TO 860 PSI AT 70F. THRESHOLD LIMIT VALUE: 5000 PPM IS THE OSHA PEL AND THE ACGIH TLV (TWA).
======= Disposal Considerations ==========
Waste Disposal Methods:DISPOSE OF IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
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