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AIR PRODUCTS AND CHEMICALS, INC. -- CARBON DIOXIDE(GAS), DRY ICE(SOILD ONLY)

6830-00-292-0142

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

Product ID:CARBON DIOXIDE(GAS), DRY ICE(SOILD ONLY)

MSDS Date:11/18/1987

FSC:6830

NIIN:00-292-0142

MSDS Number: BHDKC === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS, INC.

Address:2043 S 35TH ST

Box:11393 City:TACOMA State:WA

ZIP:98411-0393 Country:US CAGE:00742

=== Contractor Identification ===

Company Name: AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

Box:City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Phone:800-345-3148/800-752-1597

CAGE:00742

Company Name: OXYGEN SALES AND SERVICE INC

Address:2043 S 35TH ST

Box:11393 City:TACOMA State:WA

ZIP:98411-0393 Country:US CAGE:5H199

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

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 OSHA PEL:5000 PPM

ACGIH

========= Hazards Identification ===========
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EXPOSURE IN THE CONCENTRATION RANGES OF 1.5-10% MAYBE HIGHLY VARIABLE,SYMPTOMS INCLUDE THE FOLLOWING: 3-6%:HDACHES,DYSPNEA,PERSPIRATION; 6-10%:HDACHES,DYSPNEA,PERSPIRATION,TREMORS,VISUAL DISTURBANCE, UNCONSCIOUSNESS;OVER 10%: UNCONSCIOUNESSUNCONS CIOUSNESS CAN OCCUR W/O WARNING PREVENTING SELF RESCUE Effects of Overexposure:CARBON DIOXIDE DOES NOT SUPPORT LIFE & MAY PRODUCE IMMEDIATELY HAZARDOUS ATMOSP HERES. AT A CONCENTRATION IN EXCESS OF 1.5% MAY PRODUCE HYPERVENTILATION,HDACHESVISUAL DISTURBANCES,TREMOR, LOSS OF CONS CIOUSNESS & DEATH.
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First Aid:PERSONS SUFFERING FROM THE TOXIC EFFECT OF CARBON DIOXIDE SHOULD BE MOVED TO AREAS W/NORMAL ATMOSP HERE. ASSISTED RESPIRATION & SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF THE VICTIM IS NOT BREATHING. FR OZEN TISSUES SHOULD BE FLOODED OR SOAKEDW/TEPID WATER (105-115F;41-46C). DO NOT USE HOT WATER!! CRYOGENIC BURNS WHICH RESULT IN BLISTERING/DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY PHYSICIAN
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Flash Point:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:CARBON DIOXIDE IS AN EXTINGUISHING AGENT FOR CLASS B&C FIRES. Fire Fighting Procedures:NA Unusual Fire/Explosion Hazard:NA
========= Accidental Release Measures ==========
Spill Release Procedures: VENTILATE INDOOR AREAS WELL TO AVOID HAZARDOUS CARBON DIOXIDE CONCENTRATIONS. VENTILATE WELL AND AVOID CONTACT W/COLD VAPORS OR DRY ICE. CARBON DIOXIDE IS A HEAVY GAS & WILL REMIAN IN LOW SPOTS WITHOUT ASSISTED VENTILATION.
============= Handling and Storage ==============
Hand

TLV:5000PPM/30000STEL;93

ling and Storage Precautions:USE SUITABLE HANDTRUCK FOR MOVEMENT.STORE IN WELL VENTILATED AREAS. SEGREGATE FULL/EMPTY CLYINDERS. KEEP CYLIDNERS AWAY FROM SOURCES OF HEAT.

Other Precautions: AVOID DRAGGING, ROLLING, OR SLIDING CYLINDERS. DONOT STORE IN HEAVY TRAFFIC AREATO PREVENT DAMAGE. AVOID EXPOSURE TO AREAS WHERE SALT OR OTHER CORROSIVE CHEMCLSARE PRESENT.

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

Respiratory Protection: USE S.C.B.A. IN OXYGEN DEFICI

ENT ATMOSPHERES OR

WHERE CARBON DIOXIDE EXCEEDS 1.5%. CAUTION!! AIR PURIFYING RESPIRATORS WILL NOT FUNCTION. THEIR USE MAY RESULT IN ASPHYXIATION.

Ventilation:LOCAL EXHAUST MAY BE USEFUL AT POINT SOURCES OF CO2 VAPORS.
MECHANICAL WHERE LOW LYING AREAS ARE NOT NATURALLY VENTILATE

Protective Gloves:LOOSE FITTING GLVS/IMPERMEABLE (LEATHER)

Eye Protection:SAFETY GLASSES Other Protective Equipment:NONE Supplemental Safety and Health NK

Boiling Pt:B.P. Text:*SEE BELOW

Vapor Pres:831 PSIA Vapor Density:1ATM 0.115 Spec Gravity:**SEE BELOW

Solubility in Water:1 ATM 87.8% B/VOLUME

Appearance and Odor: CARBON DIOXIDE IS COLORLESS/ODORLESS.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

IF MOISTURE IS PRESENT, MATERIALS MUST RESIST CARBONIC ACID.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:NONE

Conditions to Avoid Pol

ymerization:*BOIL PT: -109.3F/-78.5C

*SPEC.GRVTY:1 ATM 1.53(GAS);*SPEC GRVTY:1

ATM 1.56 (SOILD)

======= Disposal Considerations ===========

Waste Disposal Methods:DONOT ATTEMPT TO DISPOSE OF RESIDUAL CARBN DIOXIDEIN COMPRESSED GAS CYLINDERS.VENT TO THE ATMOSPHERESLOWLY SINCE RAPID DEPRESSURIZATION OF THE CONTNR WILL CAUSE THE FORMATION OF SOILD CARBON DIOXIDE (DRY ICE)INTERNALLY,REQ LONGER PERIOD TO EVAPOR.

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