

PATTEN CO INC -- CARBON DIOXIDE -- 4220-00-563-3567

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Product Identification
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Product ID:CARBON DIOXIDE

MSDS Date:11/25/1985

FSC:4220

NIIN:00-563-3567

Kit Part:Y

MSDS Number: CCCBN

=== Responsible Party ===

Company Name:PATTEN CO INC

Address:1803 MADRID AVE

City:LAKE WORTH

State:FL

ZIP:33461-3315

Country:US

Info Phone Num:407-588-8500

Emergency Phone Num:407-588-8500

CAGE:6M638

=== Contr

actor Identification ===

Company Name:AMERIGAS INC INDUSTRIAL GASES DIV

Address:LEIGHTON BLDG

Box:965

City:VALLEY FORGE

State:PA

ZIP:19481

Country:US

Phone:215-337-7000

CAGE:2W147

Company Name:PATTEN CO INC

Address:1803 MADRID AVE

Box:City:LAKE WORTH

State:FL

ZIP:33461

Country:US

Phone:407-588-8500

CAGE:6M638

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Composition/Information on Ingredients
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Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA

PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;95

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

LD50 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:INHALATION: LOW CONCENTRATIONS (3-5 MOLAR %) CAUSE INCREASED RESPIRATION AND HEADACHE.EIGHT TO 15 MOLAR % CONCENTRATIONS CAUSE HEADACHE, NAUSEA, AND VOMITING WHICH MAY LEAD TO UNCONSCIOUSNESS IF NOT MOVED TO OPEN AIR OR GIVEN OXYGEN. HIGHER CONCENTRATIONS CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA AND DEATH.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:CARBON DIOXIDE IS THE MOST POWERFUL VASODILATOR KNOWN. INHALING LARGE CONCENTRATIONS CAUSES RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA AND DEATH. CHRONIC HARMFUL EFFECTS ARE NOT KNOWN FROM REPEATED INHALATION OF LOW (3-5 MOLAR %) CONCENTRATIONS.
Medical Cond Aggravated
by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CARBON DIOXIDE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. INHALATION: ASSIST CONSCIOUS PERSONS TO FRESH AIR. QUICK REMOVAL FROM CONTAMINATED AREA IS MOST IMPORTANT. MOVE UNCONSCIOUS PERSONS TO FRESH AIR, GIVE CPR AND OXYGEN.ASSURE VOMIT DOES NOT OBSTRUCT AIRWAY.TREAT SYMPTOMATIC AND SUPPORTIVE.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:NONFLAMMABLE, INERT GAS. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:USE PROCEDURE APPROPRIATE FOR SURROUNDING FIRE.

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===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. REM

DO NOT LEAKING CONTAINER TO OPEN,
SAFE AREA.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL
DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED AREA. DO NOT ALLOW
TEMPERATURE WHERE CYLINDER IS STORED TO EXCEED 130F.

Other Precautions:AT NORMAL TEMPERATURES CARBON DIOXIDE IS COMPATIBLE
WITH MOST PLASTICS AND ELASTOMERS. COMPRESSED GAS CYLINDERS SHOULD

NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES.

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Exposure Controls/Personal Protection
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Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR
SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR
EMERGENCY USE.

Ventilation:PROVIDE SUFFICIENT VENTILATION TO PREVENT ACCUMULATION
ABOVE THE TWA.

Protective Gloves:FOR LARGE CYLINDER HANDLING:ANY MATERIAL

Eye Protection:SAFETY GOGGLES OR GLASSES IF NEEDED.

Other Protective Equ

ipment:SAFETY SHOES FOR LARGE CYLINDERS.

Work Hygienic Practices:NORMAL WORKPLACE HYGENIC PRACTICE IS ADEQUATE.

Supplemental Safety and Health

KEY1:G3. THIS ENTRY DESCRIBES PART 2, CARBON DIOXIDE CYLINDER, OF A TWO
PART KIT. SEE THIS SAME NSN, P/N IND A, FOR PART 1, INFLATABLE LIFE
RAFT, DATA.

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Physical/Chemical Properties
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HCC:G3

Boiling Pt:B.P. Text:-109.3F SUB

Melt/Freeze Pt:M.P/F.P Text:-70F,-57C

Vapor Pres:856 PSIA

Vapor Density:.124 #/FT3

Spe

c Gravity:1.65

Solubility in Water:VERY SOLUBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

Percent Volatiles by Volume:100

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:YES

FORMS CARBONIC ACID IN PRESENCE OF WATER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:CARBON MONOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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Disposal Considerations
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Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER.

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