

AIRCO INC, AIRCO INDUSTRIAL GASES DIV. -- CARBON DIOXIDE,GAS -- 4210-01-364-1623

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Product Identification
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Product ID:CARBON DIOXIDE,GAS

MSDS Date:08/04/1989

FSC:4210

NIIN:01-364-1623

MSDS Number: CCSXQ

=== Responsible Party ===

Company Name:AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address:575 MOUNTAIN AVE

City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Info Phone Num:908-464-8100/FOR

MSDS:1800-734-5463

Emergency Phone Num:800-424-9300(CHEMTREC)

CAGE:00741

=== Contractor Identification ===

Company Name:AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address:575 MOUNTAIN AVE

Box:City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Phone:800-424-9300(CHEMTREC)

CAGE:00741

Company Name:METALCRAFT INC

Address:9331 PHILADELPHIA ROAD

Box:City:BALTIMORE

State:MD

ZIP:21237

Country:US

Phone:410-687-5500

CAGE:06535

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Composition/Information on Ingredients
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Ingred Name

:CARBON DIOXIDE 99.8000 TO 99.9990
CAS:124-38-9
RTECS #:FF6400000
Fraction by Wt: SEE ING
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

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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:INHAL:LOW CONC(3-5 MOLAR%)CAUSE
INCREASED RESP/HEAD.8-15 MOLA
R% CAUSE HEAD,NAUS,VOMIT WHICH MAY
LEAD TO UNCONSC IF NOT MOVED TO OPEN AIR/GIVEN OXY.HIGHER CONCEN
CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO
COMA/DEATH.MAINTAIN OXY LEVELS >19.5% @SEA LEVEL. MATL MOST
POWERFUL CEREBRAL VASODILATOR KNOWN.
Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.
Effects of Overexposure:INCREASED RESPIRATORY, HEADACHE. NAUSEA,
VOMITING,
UNCONSCIOUSNESS. RAPID CIRCULATORY INSUFFICIENCY, COMA,
DEATH. MOST POWERFUL CEREBRAL VASODILATOR KNOWN.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION:PROMPT MEDICAL ATTENTION MANDATORY IN ALL CASES OF
OVEREXPOSURE TO CO2.RESCUE PERSONNEL SHOULD BE EQUIPPED W/SCBA.
MOVE TO UNCONTAMINATED AREA. GIVE MOUTH-TO-MOUTH
RESUSCITATION/SUPPLEMENTAL OXYGEN. TREAT
SYMPTOMA
TICALLY/SUPPORTIVELY. TREAT AREAS EXPOSED TO LIQUID AS
FROSTBITE. REMOVE TO FRESH AIR. TREAT SYMPTOMATICALLY.

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

Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR THE
COMBUSTABLE MATLS INVOLVED IN FIRE. ELECTRICAL
CLASSIFICATION:NON-HAZ.
Fire Fighting Procedures:NONFLAMMABLE. USE STANDARD FIREFIGHTING
PROCEDURES FOR SURROUNDING MATERIALS IN THE FIRE.
Unusual Fi

re/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:EVACUATE PERSONNEL.USE APPROP PROT EQPMT. LEAK IN USER EQPMT PURGE PIPING W/INERT GAS BEF REPAIRS.LEAK IN CNTNR/VALVE CALL CHEMTREC/CLOSEST AIRCO LOCATION FOR ASSISTANCE.CO2 DISPLACES OXY CAUSING POSS IBLE OXY DEFICIENT ATM IN CONFINED AREAS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage

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Handling and Storage Precautions:USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT.

Other Precautions:DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A SUITABLE HAND TRUCK. DO NOT HEAT CYLINDER BY ANY MEANS TO INCREASE THE DISCHARGE RATE OF PRODUCT FROM THE CYLINDER. PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED AREA

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Exposure Controls/Personal Protection =====

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

Ventilation:LOCAL EXHAUST:TO PREVENT ACCUMULATION ABOVE TLV. ENSURE ADE1UATE VENTILATION.

Protective Gloves:PROTECTIVE GLOVES OF ANY MATERIAL

Eye Protection:SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:FOLLOW SAFETY PROCEDURES FOR COMPRESSED GASES.

Supplemental Safety and Health

STORE AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS. DO NOT ALLOW THE TEMPERATURE WHERE THE CYLINDERS ARE STORED TO EXCEED 130F. CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. FULL AND EMPTY CYLINDERS SHOULD BE SEGREGATED.

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

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HCC:G3

Boiling Pt:B.P. Text:SUBL@-109F

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:856 PSIA

Vapor Density:1.65 @70F

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:VERY SOLUBLE

Appearance and Odor:NO COLOR/ODOR,SLIGHTLY ACIDIC GAS

@RT/PRESS;SHIPPED: LIQ GAS UNDER OWN VAP PRES

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

Stability Indicator/Materials to Avoid:YES

REACTIVE METALS, HY

DRIDES, MOIST CESIUM OXIDE OR LITHIUM ACETYL MAY

IGNITE.SODIUM PEROXIDE & REACTIVE METALS MAY EXPLODE

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:CARBON MONOXIDE, OXYGEN, DRY ICE.

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

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO AIRCO FO R PROPER DISPOSAL.

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