

AIRCO INC,AIRCO INDUSTRIAL GASES DIVISION -- CARBON DIOXIDE SOLID (DRYICE) --
6830-00-247-0619

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

Product ID:CARBON DIOXIDE SOLID (DRYICE)

MSDS Date:07/01/1986

FSC:6830

NIIN:00-247-0619

MSDS Number: BDNLR

=== Responsible Party ===

Company Name:AIRCO INC,AIRCO INDUSTRIAL GASES DIVISION

Address:575-MONTAIN AVENUE

City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

In

fo Phone Num:201-464-8100

Emergency Phone Num:201-464-8100

CAGE:KO834

=== 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:AIRCO INC,AIRCO INDUSTRIAL GASES DIVISION

Address:575-MONTAIN AVENUE

City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Phone:201-464-8100

CAGE:KO834

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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: 100.0%
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;93

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:3 TO 5% BY VOLUME:CAUSES INCREASED
RESPIRATION & HEADACHE; 8 TO 15% BY VOLUME:HEADACHE,NAUSEA,VOMITING
& UNCONSCIOUSNESS IF NOT MOVED TO
OPEN AIR OR GIVEN OXYGEN; HIGHER
CONCENTRATIONS CAUSES CIRCULAT ORY INSUFFICIENCY LEADING TO COMA OR
DEATH. IT CAN ALSO RESULT IN FROSTBITE BY DERMAL CONTACT.
Effects of Overexposure:AT LOW CONCENTRATION 3-5% BY VOLUME:INCREASED
RESPIRATION & HEADACHE.CONCENTRATION OF 8-15%:CAUSE HEADACHE,NAUSEA
& VOMITING,UNCONSCIOUSNESS;HIGHER CONC. LEAD TO COMA &
DEATH.FROSTBITE EFFECTS ARE A C HANGE IN THE COLOR OF THE SKIN TO
GRAY OR WHITE POSSIBLY FOLLOWED BY BLISTERING.

Medical Con

d Aggravated by Exposure:CO*2 IS THE MOST POWERFUL CEREBRAL
VASODILATOR KNOWN;INHALATION OF LARGE CONCENTRATIONS CAUSES RAPID
CIRCULATORY INSUFFICIENCY LEADING TO COMA & DEATH.

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

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF
OVEREXPOSURE TO CARBON DIOXIDE.RESCUE PERSONNEL SHOULD BE EQUIPPED
WITH SCBA,GIVE CPR AND IN FRESH AIR TREAT AREAS EXPOSED TO LIQUID
AS FOR FROTSB ITE EYES:FLUSH WITH T
EPID WATER IN LARGE QUANTITIES
OR WITH A STERILE SALINE SOLUTION.SEE MEDICAL ATTENTION.FOR DERMAL
CONTACT OR FROSTBITE,FLUSH AFFECTED AREA WITH LUKEWARM WATER.DO NOT
USE HOT WATER

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

Flash Point:NONE
Extinguishing Media:NON-FLAMMABLE,INERT GAS
Fire Fighting Procedures:NONE NOTED;USE NIOSH/MSHA APPROVED SCBA IN
CONFINED AREA.

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

Spill Release Proce

dures:50 LB OF DRY ICE MAY PRESENT ABOUT 10% CO*2
CONCENTRATION IN A SMALL,CONFINED PLACE(EG 20'X20'X10'); PROVIDE
ADEQUATE VENTILATION.

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

Handling and Storage Precautions:USE ONLY IN WELL-VENTILATED AREAS;SEE
NOTE ON SPILL AND LEAK PROCEDURE.DO NOT STORE VESSELS IN
SUB-SURFACE OR CLOSED AREAS.

Other Precautions:CYLINDERS MUST BE KEPT UPRIGHT POSITION.

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

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Respiratory Protection:USE POSITIVE PRESSURE AIR LINE WITH FULL
FACEPIECE AND AN ESCAPE AIR SUPPLY OR SELF-CONTAINED BREATHING
APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:LOOSE FITTING,INSULATED

Eye Protection:SAFETY GOGGLES OR GLASSES PLUS FACE SHIE

Other Protective Equipment:SAFETY SHOES.

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE
VAPORS.USE PROPER PERSONAL PROTECTION.

Supple

mental Safety and Health

A HANDWRITTEN NOTE ON THE MSDS IMPLIES THAT PRODUCT IS MANUFACTURED BY
DRY ICE CORP,BALTIMORE,MD. HOWEVER MSDS CAME FROM AIRCO.

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

HCC:T4

Boiling Pt:B.P. Text:-109F/-78C

Vapor Pres:856 PSIA

Spec Gravity:1.65

Solubility in Water:VERY SOLUBLE

Appearance and Odor:COLORLESS,ODORLESS GAS;WHITE SOLID

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

Stability Indicator/Materials to Avoi

d:YES
NONE NOTED
Stability Condition to Avoid:NONE NOTED
Hazardous Decomposition Products:NONE NOTED

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

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES.RETURN TO AIRCO FOR PROPER DISPOSAL,OR DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS.

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