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AIRCO INC, AIRCO INDUSTRIAL GASES DIV. -- CARBON DIOXIDE, GAS -- 4220-00-543-6693

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

Product ID:CARBON DIOXIDE, GAS

MSDS Date:08/04/1989

FSC:4220

NIIN:00-543-6693

MSDS Number: BWSSF === 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

Em

ergency 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: JEFFERSON METALS STAMPING CO.

Address:4400 GUSTINE AVE

Box:City:ST LOUIS

State:MO

ZIP:53116-1712 Country:US CAGE:0ZGE6

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

Ingred Name: CARBON DIOXIDE

CAS:124-38

RTECS #:FF6400000 Fraction by Wt: 100%

Other REC Limits:5000PPM(TWA)

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;95

========== 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:LOW CONCENTRATIONS (3M TO 5M) CAUSE INCREASED RESPIRATION & HEADACHE. 8M TO 15M CONCENTRATIONS CAUSE HEADACHE, NAUSEA & VOMITING, LEADING TO UNCONSCIOUSNESS IF NOT

MOVED TO OPEN AIR OR GIVEN OXYGEN. H IGHER CONCENTRATIONS CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA & DEATH. MAINTAIN OXYGEN LEVELS ABOVE 19.5%.

Explanation of Carcinogenicity:MFR GAVE THE ABOVE LISTINGS ON THE MSDS BUT NO OTHER COMMENTS WERE RECORDED.

Effects of Overexposure:INCREASED RESPIRATION, HEADACHE, NAUSEA, VOMITING, UNCONSCIOUSNESS. HIGHER CONCENTRATIONS:RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA & DEATH.

Medical Cond Aggravated by Exposure :MFR GAVE NO INFORMATION ON MSDS.

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE OF CARBON DIOXIDE. QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT. CONSCIOUS PERSONS SHOULD BE ESCORTED FROM THE CONTAMIN ATED AREA & INHALE FRESH AIR. UNSCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATED AREA, GIVEN MOUTH TO MOUTH & SUPPLEMENTAL OXYGEN. TREAT AREAS EXPOSED TO LIQ UID AS FROSTBITE.

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

Lower Limits:NONE Upper Limits:NONE

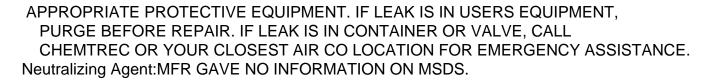
Extinguishing Media: USE EXTINGUISHING MEDIA SUITABLE FOR THE COMBUSTIBLE MATERIALS INVOLVED IN THE FIRE.

Fire Fighting Procedures:MFR GAVE NO INFORMATION ON MSDS.

Unusual Fire/Explosion Hazard:MFR GAVE NO INFORMATION ON MSDS.

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

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE



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

Handling and Storage Precautions:USE ONLY IN WELL-VENTILATED AREAS. KEEP VALVE PROTECTION CAPS IN PLACE UNLESS PROPERLY SECURED & CONNECTED TO PIPING. DO NOT ROLL, SLIDE,

DRAG CYLINDERS

Other Precautions:USE A SUITABLE HANDTRUCK WHEN MOVING CYLINDERS. USE PRESSURE REDUCING REGULATOR OR PIPING RATED >3000 PSI. DO NOT HEAT CYLINDER. USE CHECK VALVE OR TRAP IN DISCHARGE LINE TO PREVENT BACK FLOW. PROTECT CYLINDERS FROM DAMAGE. SEE SUPP DATA.

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

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

Ventilation:LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE TWA. ENSURE ADEQUATE VENTILATION.

Protective Gloves:PROTECTIVE GLOVES OF ANY MATERIAL

Eye Protection: SAFETY GOGGLES OR GLASSES

Other Protective Equipment: SAFETY SHOES

Work Hygienic Practices:MFR: ? HMIS:FOLLOW ALL GUIDELINES RECOMMENDED BY THE COMPRESSED GAS ASSOCIATION. USE GOOD INDUSTRIAL HYGIENE PROCEDURES

Supplemental Safety and Health

STORE IN A COOL WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS & EMERGENCY EX

ITS. DO NOT ALLOW TEMPERATURES TO EXCEED 130F. STORE
UPRIGHT & SECURED FROM FALLING. SEGREGATE FULL & EMPTY CYLIND ERS.
DRY CARBON DIOXIDE CAN BE HANDLED IN MOST MATERIALS. MOIST CARBON
DIOXIDE IS CORROSIVE. USE APPROPRIATE ALLOYS.

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

HCC:G3

NRC/State Lic Num:NONE Boiling Pt:B.P. Text:-109F,-79C Vapor Pres:856 PSIA

Vapor Density:1.65

Solubility in Water: VERY SOLUBLE

Appearance and Odor: COLORLESS, ODORLESS GAS. WATER W

| ======== Stability and Reactivity Data ========== |
|---|
| Stability Indicator/Materials to Avoid:YES |

REACTIVE METALS (MG, AL), HYDRIDES. MOIST CESIUM OXIDE OR LITHIUM ACETYL MAY IGNITE. SODIUM PEROXIDE MAY EXPLODE.

Stability Condition to Avoid:NONE

HITE LIQUID.

Hazardous Decomposition Products: SHOCK SENSITIVE MIXTURES MAY FORM WHEN DRY ICE IS MIXED W/POTASSIUM OR SODIUM-POTASSIUM ALLOY.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

| ===== | ======================================= | Disposal | Conside |
|---------|---|----------|---------|
| rations | =========== | | |

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. RETURN IN ORIGIONAL CONTAINER, PROPERLY LABELED, W/VALVE OUTLET PLUGS & PROTECTIVE CAPS IN PLACE, TO AIRCO FOR PROPER DISPOSAL.

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