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AIRCO INC, AIRCO INDUSTRIAL GASES DIV. -- CARBON DIOXIDE, GAS -- 4220-00-458-9240

Product ID:CARBON DIOXIDE,GAS MSDS Date:08/04/1989 FSC:4220 NIIN:00-458-9240 MSDS Number: BXWLM === Responsible Party === Company Name: AIRCO INC, AIRCO INDUSTRIAL GASES DIV. Address:575 MOUNTAIN AVE City:MURRAY HILL State:NJ ZIP:07974 Country:US Info Phone Num:908-464-8100 Emergency Phone Num:908-464-8100/800-424-9300(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: GENIUM PUBLISHING CORPORATION Address:1145 CATALYN ST Box:City:SCHENECTADY State:NY ZIP:12303-1836 Country:US Phone:518-377-8854 CAGE:5Z768 Company Name: JEFFERSON METALS STAMPING CO. Address:4400 GUSTINE AVE Box:City:ST LO

UIS State:MO ZIP:53116-1712 Country:US CAGE:0ZGE6 Company Name:SPARKLET DEVICES INC Address:4400 GUSTINE AVE Box:City:ST LOUIS State:MO ZIP:63116-1712 Country:US Phone:314-353-0400 CAGE:87286

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

LD50

LC50 Mixture: TLV IS 5000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, HEART, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIO NS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION OF LIQUID MAY DAMAGE MOUTH, LIPS.

CHRONIC- UNK.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE OR SKIN FROSTBITE AND FREEZE BURNS, HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS SALIVATION, SHORTNESS OF BREATH, MUSC ULAR WEAKNESS, RINGING IN THE EAR, UNCONSCIOUSNESS, COMA, NAUSEA, VOMITING, WATERY EYES (FORMATION OF WEAK CABONIC ACID)

Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRAT

## ORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE.

First Aid:INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEE AN OPHTHALMOLOGIST, URGENTLY. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 107 F). PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUI PPED WITH

SELF CONTAINED BREATHING APPARATUS. ORAL: TREAT SYMPTOMATICALLY. CALL PHYSICIAN.

Flash Point:NONE

Extinguishing Media:CARBON DIOXIDE CANNOT CATCH FIRE. USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVAC UATE AREA.

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE.

Spill Release Procedures:LIQUID CARBON DIOXIDE WILL FORM SOLID CO2 (DRY ICE) WHEN RELEASED TO ATMOSPHERIC PRESSURE. THE AREA SHOULD BE VENTILATED. CLEAN UP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FA CE MASK AND HEAVY PROTECTIVE CLOTHING. Neutralizing Agent:NOT RELEVANT

====== Handling

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF REACH OF CHILDREN. REMOVE CAP ONLY IF CONTAINER IS FIRMLY SECURED.

Other Precautions: KEEP AWAY FROM SOURCES OF HEAT. CAUTION! CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. USE WITH ADEQUATE VENTILATION. CO2 IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR THE FLOOR IN CLOSED S PACES. READ ALL LABEL INSTRUCTIONS.

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Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, NIOSH-APPROVED AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. FOR EMERGENCIES, WEAR SELF CONTAINED BREATHING APPARAT US, OPERATED IN POSITIVE PRESSURE MODE. Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR. Protective Gloves:INSULATED AND COLD RESISTANT NEOPRENE Eye P rotection:SAFETY GOGGLES Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED.

RECOMMENDED PROCEDURES. Supplemental Safety and Health

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

HCC:G3 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:-109F SUBLI Decomp Temp:Decomp Text:3092F,1700C Vapor Pres:44255 Vapor Density:1.65 Spe c Gravity:1.52 pH:ACIDIC Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water:VERY SOLUBLE Appearance and Odor:COLORLESS, ODORLESS GAS (SHIPPED AS A LIQUEFIED GAS) Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES REACTIVE METALS (MAGNESIUM, ALUMINUM), MOIST CESIUM OXIDE, SODIUM PEROXIDE + REACTIVE METALS Stability Condition to Avoid:EXCESSIVE HEAT Hazardous Decomposition Products:CAN DECOMPOSE TO CARBON MONOXIDE AND OXYGEN ABOVE 3092F (1700C).

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS IF PERMITTED. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. RETURN RESIDUAL OR UNUSED PRODUCTS IN SHIPPING CONTAINERS PROPERLY LABELED WITH CAPS AND VALVES SECURED TO AIRCO.

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