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Product ID:CARBON DIOXIDE MSDS Date:10/01/1993 FSC:4220 NIIN:00-920-3651 MSDS Number: CFMRF === Responsible Party === Company Name: PRAXAIR INC Address:39 OLD RIDGEBURY RD City:DANBURY State:CT ZIP:06817-0001 Country:US Info Phone Num:203-794-5782 Emergency Phone Num:203-794-5782/800-424-9300(CHEMTREC) CAGE:0LV01 === Contractor Identification === **Company Name: INFLATION SYSTEMS** Box:City:MAMARONICK State:NY ZIP:10543 Country:US Phone:914-381-8070 CAGE:62882 Company Name: PRAXAIR, INC. Address:39 OLD RIDGEBURY RD Box:City:DANBURY State:CT ZIP:06810-5113 Country:US Phone:800-772-9247; 800-PRAXAIR CAGE:0LV01

Ingred Name:CARBON DIOXIDE CAS:124-38-9 RTECS #:FF6400000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:5000 PPM ACG 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, CNS, EYES, SKIN. ACUTE- EYE/SKIN:COLD VAPOR OR SOLID CARBON DIOXIDE MAY CAUSE FROSTBITE, INHALE: ASPHYXIANT, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, UNCONSCIOUSNESS. I NGESTION IS NOT LIKLEY (GAS). CHRONIC- NONE. Explanation of Carcinogenicity:NONE Effects of Overexposure: EYES AND/OR SKIN FROSTBITE, HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS SALIVATION, SHORTNESS OF BREATH, MUSCULAR WEAKNES S, 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

RESPIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM

BREATHING EXCESSIVE CARBON DIOXIDE.

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:IMMEDIATELY FLUSH WITH WARM WATER FOR 15 MINUTES. CALL PHYSICIAN. INHALED:MOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. SKIN:TREAT FOR POSSIBLE FROST BITE USING WARM WATER (105F), THEN FLUSH SKIN WITH PLENTY OF WATER. ORAL:UNLIKELY TO OCCUR.

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Flash Point:NONE Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT 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. EVACUATE AREA. Unusual Fire/Explosion Hazard:CYLINDERS MAY

## RUPTURE.

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 and Storage Precautions:STORE IN

A COOL, WELL-VENTILATED PLACE

AWAY FROM INCOMPATIBLES. DO NOT STORE ABOVE 120F. KEEP OUT OF REACH OF CHILDREN.

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.

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST CONFORM WITH OSHA RULES AS SPECIF IED IN 29 CFR 1910.134. Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR. Protective Gloves:RUBBER Eye Protection:SAFETY GOGGLES Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRE D. Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health

## HCC:G3

NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:-109F,-78C Vapor Pres:43671 @70F Vapor Density:1.52 Spec Gravity:NOT RELEVANT pH:ACIDIC Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT (GAS) Solubility in Water:SLIGHT Appearance and Odor:COLORLESS, ODORLESS COMPRESSED Stability Indicator/Materials to Avoid:YES ALKALI METALS, ALKALINE EARTH METALS, METAL ACETYLIDES, CHROMIUM, TITANIUM ABOVE 550C/1022F, URANIUM ABOVE 750C/1382F Stability Condition to Avoid:OVERHEATING Hazardous Decomposition Products:CARBON MONOXIDE

Waste Disposal Methods: SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS.

DISPOSAL SHOULD BE IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICATE A DEFECT.

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