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INFLATION SYSTEMS -- CARBON DIOXIDE -- 4220-00-920-3651

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

Product ID:CARBON DIOXIDE

MSDS Date:01/01/1987

FSC:4220

NIIN:00-920-3651

MSDS Number: BJRGF === Responsible Party ===

Company Name: INFLATION SYSTEMS

Address:500 OGDEN AVE

City:MAMARONICK

State:NY ZIP:10543 Country:US

Info Phone Num:914-381-8070

Emergency Phone Num:914-381-8070

CAGE:62882

=== Contractor Iden

tification ===

Company Name: INFLATION SYSTEMS

Box:City:MAMARONICK

State:NY ZIP:10543 Country:US

Phone:914-381-8070

CAGE:62882

Company Name: LIQUID AIR CORPORATION INDUSTRIAL GAS DIVISION

Address:2121 N CALIFORNIA BLVD

Box:City:WALNUT CREEK

State:CA ZIP:94596 Country:US

Phone:510-977-6500

CAGE:58092

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

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 Fraction by Wt: 100% OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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========= Hazards Identification ===========
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:SIMPLE ASPHYXIANT.HIGH CONCENTRATIONS OF CARBON DIOXIDE IN THE AMBIENT AIR CAN REDUCE THE OXYGEN CONTENT NECESSARY TO SUPPORT LIFE.IN THE SOLID PHASE(DRY ICE) CONTACT W/BODY TISSUE WILL PRODUCE COLD BURNS OR FROSTBITE W/IN SEVERAL SECONDS.
Explanation of Carcinogenicity :THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY NTP, IARC, OSHA. Effects of Overexposure:SHORTNESS OF BREATH,HEADACHE,DIZZINESS,WEAKNESS,DROWSINESS & RINGING IN EARS.DRY ICE IN CONTACT W/BODY TISSUE PRODUCES BURNING SENSATION;& FROSTBITE OCCURS W/IN SEVERAL SECONDS. Medical Cond Aggravated by Exposure:CONDITIONS WHICH CAUSE BREATHING DIFFICULTY.
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First Aid:DO NOT ATTEMPT TO REMOVE AN INDIVIDUAL FROM THE SCE NE W/OUT UTILIZING PROPER RESCUE EQUIPMENT OR YOU MAY BECOME A CASUALTY. MOVE VICTIM TO FRESH AIR WHILE KEEPING THEM WARM, DRY & QUIET. IF BREATHING HAS STOPPED PERFORM ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.
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Extinguishing Media:MATERIAL IS AN EXTINGUISHING AGENT ITSELF Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. Unusual Fire/Explosion Hazard:CONFINEMENT OF CARBON DIOXIDE IN VE SSELS CONTAINERS OF IMPROPER DESIGN CAN RESULT IN EXPLOSION OR RUPTURE FROM OVER-PRESSURIZATION.
========= Accidental Release Measures ==========

Spill Release Procedures:EVACUATE THE AREA OF THE SPILL OR RELEASE, EMPLOY EMERGENCY FIRST AID PROCEDURES,PROVIDE PLENTY OF FRESH AIR.REMOV DRY ICE RESIDUAL & ALLOW TO SUBLIME IN A SECURED, WELL-VENTILATED AREA & CONTACT THE MANUFACTURER'S SAFETY DEPARTMENT.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage Precautions:LIQUID & VAPOR STORAGE CONTAINERS ARE UNDER HIGH PRESSURE.DO NOT MIS-HANDLE OR ABUSE, CNTS. USE ONLY EQUIPMENT DESIGNED FOR CARBON DIOXIDE. Other Precautions:AVOID DIRECT SKIN CONTACT WITH DRY ICE OR VENTING CARBON DIOXIDE LIQ OR VAPOR. USE PROTECTIVE EQUIP & CLOTHING AND GET PROPER TRAINING BEFORE HANDLING CARBON DIOXIDE IN CYLINDERS.
======= Exposure Controls/Personal Pr otection ========
Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS - USE IN STRICT ACCORDANCE W/THE MANUFACTURER'S RECOMMENDATIONS. Ventilation:FRESH AIR LOCAL EXHAUST/MECHANICAL Protective Gloves:HEAVY TERRY-CLOTH TYPE Eye Protection:SAFETY GLASSES W/SIDE SHIELDS Other Protective Equipment:SAFETY SHOES, HARD HATS & EAR PROTECTION SHOULD BE WORN WHEN WORKING W/PRESSURIZED CARBON DIOXIDE. Work Hygienic Practices:PERSONS HANDLING CARBON DIOXIDE SHOULD BE FULLY TRAINED I N ADVANCE. Supplemental Safety and Health USE A PROPER PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER LOWER PRESSURE < 1500 PSIG. NEVER HEAT CYLINDER TO INCREASE DISCHARGE RATE. KEEP CYLINDERS UPRIGHT AND PROPERLY SECURED IN SECURED AREAS AWAY FROM HIGH TRAFFIC. HAVE ONLY QUALIFIED PERSONNEL REFILL CYLINDERS.
========= Physical/Chemical Properties ==========
HCC:G3 Boiling Pt:B.P. Text:-109F,-79C Melt/Freeze Pt:M.P/F.P Text:NA Vapor Pres:84.7 @70F
Vapor Density:1.833KG/M3 Spec Gravity:1.5240 Solubility in Water:VERY SOLUBLE Appearance and Odor:IN SOLID TRANSLUCENT WHITE & ODORLESS.IN GAS & LIQ COLORLESS & ODORLESS. Percent Volatiles by Volume:100
Stability and Poactivity Data

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

Stability Indicator/Materials to Avoid:YES
ACTIVE ALKALI METALS, ORGANOMETALLIC REAGENTS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:HEATING ABOVE 1700C CAUSES DECOMPO

SITION OF CARBON MONOXIDE & OXYGEN.

Conditions to Avoid Polymerization:IT CAUSES VIOLENT POLYMERIZATION OF ACRYLALDEHYDE OR ETHLENEIMINE.

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

Waste Disposal Methods:ALLOW CARBON DIOXIDE TO RELEASE, SUBLIME OR DISSIPATE IN THE OPEN AIR.AVOID RELEASING IN COURTYARDS OR INDOORS OR ANY AREAS WHERE HEAVY CARBON DIOXIDE VAPORS CAN ACCUMULATE.

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