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LELAND LIMITED INC -- CARBON DIOXIDE, GAS

\_\_\_\_\_ FSC: 4220 NIIN: 01-077-8773 MSDS Date: 10/19/1996 MSDS Num: BPBPG Product ID: CARBON DIOXIDE, GAS MFN: 01 **Responsible Party** Cage: 2W134 Name: LELAND LIMITED INC Address: 382 SOMERVILLE RD Box: 382 City: BEDMINSTER NJ 07 921 Info Phone Number: 908-668-1008 Emergency Phone Number: 908-668-1008/800-424-9300(CHEMTREC) Preparer's Name: UNKNOWN Review Ind: Y Published: Y \_\_\_\_\_ Contractor Summary \_\_\_\_\_\_ Cage: 2W134 Name: LELAND LTD INC Address: 2614 S CLINTON AVE City: SOUTH PLAINFIELD NJ 07080 Phone: 908-561-2000; 908-568-1310 \_\_\_\_\_ Item Description Information ====== \_\_\_\_\_\_ Item Manager: S9I Item Name: CYLINDER, CARBON DIOXIDE Specification Number: MIL-C-25369 Type/Grade/Class: TYPE 3 Unit of Issue: EA UI Container Qty: 1 Type of Container: CYLINDER \_\_\_\_\_ Ingredients \_\_\_\_\_\_ Cas: 124-38-9 RTECS #: FF6400000 Name: CARBON DIOXIDE % Wt: 100.0 Other REC Limits: NONE RECOMMENDED OSHA PEL: 5000 PPM ACGIH TLV: 5000PPM/30000STEL

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Health Hazards Data

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LD50 LC50 Mixture: TLV IS 5000 PPM.

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: NO Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: 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 CONC **ENTRATIO NS** 

MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION OF LIQUID MAY DAMAGE MOUTH, LIPS. CHRONIC- UNK.

Explanation Of Carcinogenicity: NONE

Signs And Symptions 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 RESPIRATORY 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 EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS. ORAL: TREAT SYMPTOMATICALLY. CALL PHYSICIAN.

Handling and Disposal

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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

Waste Disposal Methods: SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICATE A DEFECT.

Handling And Storage Precautions: STORE IN A COOL, WELL-VENTILATED DARK PLACE. NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE AND BLOW DOWN THE SYSTEM

Other Precautions: KEEP AWAY FR

OM 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 LABELS AND INSTRUCTIONS.

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Fire and Explosion Hazard Information

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Flash Point Text: NONE

Extinguishing Media: CARBON DIOXIDE CANNOT CATCH FIRE. USE WATER FOG, CARBON DIOXIDE, FO

AM, 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 EXPLODE DUE TO HEAT OF FIRE.

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Control Measures

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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: INSULATED AND COLD RESISTANT NEOPRENE

Eye Protection: SAFETY GOGGLES RECOMMENDED

Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND

APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

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Physical/Chemical Properties

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HCC: G3 NRC/State LIC No: NOT RELEVANT B.P. Text: -109F SUBLI M.P/F.P Text: -71F@4000MM Decomp Text: 3092F,1700C Vapor Pres: 43700 @70F Vapor Density: 1.5 Spec Gravity: 1.52 PH: ACIDIC Viscosity: NOT RELEVANT Evaporation Rate & amp; Reference: N OT RELEVANT Solubility in Water: SOLUBLE Appearance and Odor: COLORLESS, ODORLESS GAS Percent Volatiles by Volume: 100 Corrosion Rate: UNKNOWN

## **Reactivity Data**

\_\_\_\_\_\_ Stability Indicator: YES Stability Condition To Avoid: OVERHEATING CYLINDERS Materials To Avoid: ACRYLALDEHYDE, SODIUM/BARIUM PEROXIDE, CESIUM OXIDE, DIETHYL MAGNESIUM, ETHYLENEIMINE, HYDRAZINE, METAL HYDRIDES Hazardous Decomp osition Products: CAN DECOMPOSE TO CARBON MONOXIDE AND OXYGEN ABOVE 3092F (1700C). Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: NOT RELEVANT \_\_\_\_\_ **Toxicological Information** \_\_\_\_\_ \_\_\_\_\_\_ **Ecological Information** \_\_\_\_\_\_ \_\_\_\_\_\_ === **MSDS** Transport Information \_\_\_\_\_ **Regulatory Information** \_\_\_\_\_ \_\_\_\_\_ Other Information \_\_\_\_\_\_ \_\_\_\_\_\_ Transportation Information \_\_\_\_\_ Respo nsible Party Cage: 2W134 Trans ID NO: 105568 Product ID: CARBON DIOXIDE, GAS MSDS Prepared Date: 10/19/1996 Review Date: 04/11/1995 **MFN: 1** Net Unit Weight: 34 - 36G AF MMAC Code: NR Multiple KIT Number: 0 **Review IND: Y** Unit Of Issue: EA Container QTY: 1 Type Of Container: CYLINDER \_\_\_\_\_\_\_\_ **Detail DOT Information** \_\_\_\_\_ DOT PSN Code: CUX DOT Proper Shipping Name: CARBON DIOXIDE Hazard Class: 2.2 **UNID** 

Num: UN1013 Label: NONFLAMMABLE GAS Packaging Exception: 306 Non Bulk Pack: 302,304 Bulk Pack: 302,314,315 Max Qty Pass: 75 KG Max Qty Cargo: 150 KG Vessel Stow Reg: A \_\_\_\_\_ Detail IMO Information \_\_\_\_\_ IMO PSN Code: DOH IMO Proper Shipping Name: CARBON DIOXIDE IMDG Page Number: 2111 UN Number: 1013 UN Hazard Class: 2(2.2) IMO Packaging Group: -Subsidiary Risk Label: -EMS Number: 2-09 MED First Aid Guide NUM: 615 \_\_\_\_\_ Detail IATA Information \_\_\_\_\_ IATA PSN Code: FHH IATA UN ID Num: 1013 IATA Proper Shipping Name: CARBON DIOXIDE + IATA UN Class: 2.2 IATA Label: NON-FLAMMABLE GAS Packing Note Passenger: 200 Max Quant Pass: 75KG Max Quant Cargo: 150KG Packaging Note Cargo: 200 \_\_\_\_\_ **Detail AFI Information** \_\_\_\_\_ \_\_\_\_\_ AFI PSN Code: FHH AFI Proper Shipping Name: CARBON DIOXIDE AFI Hazard Class: 2.2 AFI UN ID NUM: UN1013 **Special Provisions: P5** Back Pack Reference: A6.3, A6.5, A6.6 \_\_\_\_\_\_ HAZCOM Label \_\_\_\_\_\_ Product ID: CARBON DIOXIDE, GAS Cage: 2W134 Company Name: LELAND LTD INC Street: 2614 S CLINTON AVE City: SOUTH PLAINFIELD NJ Zipcode: 07080 Health Emergency Phone: 908-668-1008/800-424-930

0(CHEMTREC) Label Required IND: Y Date Of Label Review: 04/11/1995 Status Code: C MFG Label NO: NOT RELEVANT Label Date: 04/11/1995 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING Health Hazard: Moderate Contact Hazard: Moderate Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: TARGET ORGANS:LUNGS, HEART, CNS, EYES, SKIN. ACUTE-CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. INHALATION MAY CAUSE RESPIRATOR Y ACIDOSIS. INGESTION OF LIQUID MAY DAMAG E MOUTH, LIPS. CHRONIC- UNKNOWN. STORE IN COOL, VENTILATED PLACE. IN CASE OF SPILL: AREA SHOULD BE VENTILATED. FIRST AID- INHALATION: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES: IMMEDIATELY FLUSH WITH WARM WATER FOR 15 MINUTES. SEE AN OPHTHALMOLOGIST, URGENTLY. SKIN: FLUSH WITH WARM WATER. PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE. ORAL: UNLIKELY. TREAT SYMPTOMATI CALLY. CALL PHYSICIAN. \_\_\_\_\_

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