

LELAND LIMITED INC -- CARBON DIOXIDE,GAS

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MSDS Safety Information  
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FSC: 4220  
NIIN: 01-045-5689  
MSDS Date: 12/09/1994  
MSDS Num: BJRGZ  
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  
921-9779  
Info Phone Number: 201-234-1750  
Emergency Phone Number: 201-234-1750  
Preparer's Name: UNKNOWN  
Review Ind: Y  
Published: Y

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Contractor Summary  
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Cage: 1CU83  
Name: DIVER'S DEN  
Address: 4833 EAST BUSINESS HWY 98  
Box: 10606  
City: PANAMA CITY FL 32404  
Phone: 850-871-1011/800-272-4777  
Cage: 2W134  
Name: LELAND LTD INC  
Address: 2614 S CLINTON AVE  
City: SOUTH PLAINFIELD NJ 07080  
Phone: 90  
8-561-2000; 908-568-1310

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Item Description Information  
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Item Manager: S9I  
Item Name: CARTRIDGE,CARBON DIOXIDE  
Specification Number: NONE  
Type/Grade/Class: NONE  
Unit of Issue: EA  
UI Container Qty: 1  
Type of Container: CARTRIDGE

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Ingredients  
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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;95

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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 S

KIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION.

ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIONS  
MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION OF  
LIQUID MAY DAMAGE MOUTH, LIPS. CHRONIC- UNK.

Explanation Of Carcinogenicity: NONE

Signs And Symptoms 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, SH  
ORTNESS OF

BREATH, MUSCULAR WEAKNESS, RINGING IN THE EAR, UNCONSCIOUSNESS, COMA,  
NAUSEA, VOMITING, WATERY EYES (FORMATION OF WEAK CARBONIC 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:FLU

SH 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.

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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 FACE 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 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 SPACES. 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, 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 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 SPECIFIED 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 @7

OF  
Vapor Density: 1.5  
Spec Gravity: 1.52  
PH: ACIDIC  
Viscosity: NOT RELEVANT  
Evaporation Rate & Reference: NOT RELEVANT  
Solubility in Water: SOLUBLE  
Appearance and Odor: COLORLESS, ODORLESS GAS  
Percent Volatiles by Volume: 100  
Corrosion Rate: UNKNOWN

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Reactivity Data  
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Stability Indicator: YES  
Stability Condition To Avoid: OVERHEATING CYLINDERS  
Materials To Avoid: ACRYLALDEHYDE, SODIUM  
M/BARIUM PEROXIDE, CESIUM OXIDE,  
DIETHYL MAGNESIUM, ETHYLENEIMINE, HYDRAZINE, METAL HYDRIDES  
Hazardous Decomposition Products: CAN DECOMPOSE TO CARBON MONOXIDE AND OXYGEN  
ABOVE 3092F (1700C).  
Hazardous Polymerization Indicator: NO  
Conditions To Avoid Polymerization: NOT RELEVANT

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Toxicological Information  
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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Other Information  
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Transportation Information  
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Responsible Party Code: 2W134  
Trans ID NO: 102495  
Product ID: CARBON DIOXIDE, GAS  
MSDS Prepared Date: 12/09/1994  
Review Date: 09/11/1996  
MFN: 1  
Net Unit Weight: 38 G  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: EA  
Container QTY: 1  
Type Of Container: CARTRIDGE  
Additional Data: WEIGHT OF CARBON DIOXIDE IS 38 GRAMS.

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Detail DOT Inform

ation

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DOT PSN Code: CUX  
DOT Proper Shipping Name: CARBON DIOXIDE  
Hazard Class: 2.2  
UN ID 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 Req: A  
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Detail IMO Information  
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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  
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Detail IATA Information  
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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  
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Detail AFI Information  
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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  
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=====  
HAZCOM Label  
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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: 908-668-1008/800-424-9300(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  
Year Procured: 1989  
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 Precaution

s: TARGET ORGANS:LUNGS, HEART, CNS, EYES, SKIN. ACUTE-  
CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION.  
INHALATION MAY CAUSE RESPIRATORY 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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