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LELAND LIMITED INC -- C

-- CARBON DIOXIDE

MSDS Safety Information

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FSC: 4220

NIIN: 00-850-8655 MSDS Date: 02/28/1991 MSDS Num: BXGYZ

Product ID: CARBON DIOXIDE

MFN: 02

Responsible Party Cage: 2W134

Name: LELAND LIMITED INC Address: 382 SOMERVILLE RD

Box: 382

City: BEDMINSTER NJ 07921-

9779

Info Phone Number: 908-668-1310

Emergency Phone Number: 908-668-1310,800-424-9300(CHEMTREC)

Item Description Information

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Item Manager: S9I

Item Name: LIFE PRESERVER, UNDERARM

Unit of Issue: EA UI Container Qty: 1

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Ingredients

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Cas: 124-38-9

RTECS #: FF6400000 Name: CARBON

DIOXIDE % Wt: 100

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 10,000 PPM

ACGIH TLV: 5000PPM/30000STEL:94

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Health Hazards Data

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Route Of Entry Inds - Inhalation: YES Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: BAASED OON LARGE CYLINDERS OF CARBON DIOXIDE. LOW

CONCENTRATIONS (3 TO 5 MOLAR PERCENT): CAUSES INCREASED RESPIRATION AND

HEADACHES, 8 TO 15 MOLAR P

ERCENT CAUSES HEADACHE, NAUSEA, VOMITING,

UNCONSCIOU SNESS. HIGHER CONCENTRATIONS CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO COMA AND DEATH. MAINTAIN OXYGEN LEVELS ABOVE 19.5% AT SEA LEVEL.

Explanation Of Carcinogenicity: NONE.

Signs And Symptions Of Overexposure: INHALATION: INCREASED RESPIRATION,

HEADACHE, NAUSEA, VOMITING, UNCONSCIOUSNESS. COMA, DEATH.

Medical Cond Aggravated By Exposure: NONE SPECIFIED.

First Aid: INHALATION: PROMPT MEDICAL ATTENTION IS MANDITORY IN ALL CASES OF OVEREXPOSURE TO CARBON DIOXIDE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SCBA. MOVE CONSCIOUS PERSON TO FRESH AIR. GIVE CPR TO UNCONSC IOUS PERSON. IF BREATHIN IS DIFFICULT, GIVE OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMIC AND SUPPORTIVE. TREAT AREAS EXPOSED TO LIQUID CARBON DIOXIDE AS FROSTBITE. GET MEDICAL ATTENTION.

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Handling and Disposal

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Spill Release Procedures: EVACUAT

E ALL PERSONNEL FROM AFFECTED AREA. VENTILATE

AREA. IF CYLINDER VALVE IS LEAKING, MOVE CYLINDER TO OPEN, WELL-VENTILATED AREA.

Neutralizing Agent: NONE SPECIFIED.

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. RETURN CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED, TO MANUFACTURER/DISTRIBUTOR FOR PROPER DISPOSAL.

Handling And Storage Precautions: PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED ARE

A AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS.

Other Precautions: DO NOT ALLOW TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 130F. NEVER CARRY COMPRESSED GAS CYLINDER IN AN ENCLOSED SPACE SUCH AS A CAR TRUNK, VAN, STATION WAGON. A LEAK CAN RESULT IN ASPHYXIATION.

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Fire and Explosion Hazard Information

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Flash Point Text: NON-FLAMMABLE

Lower Limits: NONE

**Upper Limits:** 

NONE

Extinguishing Media: NON-FLAMMABLE GAS. USE MEDIA SUITABLE FOR THE COMBUSTABLE MATERIALS INVOLVED IN THE FIRE.

Fire Fighting Procedures: STAY CLEAR OF HEATED CYLINDERS. COOL CYLINDERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: CYLINDERS MAY RUPTURE IF OVERHEATED, 240F APPROX.

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Control Measures

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Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH MASK OR SELF- CONTAI

**NED** 

BREATHING APPARATUS SHOULD BE AVALABLE FOR EMERGENCY USE.

Ventilation: ENSURE ADEQUATE VENTILATION TO PREVENT ACCUMULATION ABOVE TLV.

Protective Gloves: NONE NORMALLY REQUIRED. Eye Protection: NONE NORMALLY REQUIRED.

Other Protective Equipment: NONE NORMALLY REQUIRED.

Work Hygienic Practices: NORMAL HYGENIC PRACTICE IS ADEQUATE.

Supplemental Safety and Health: LIFE PRESERVER, UNDERARM, GAS INFLATED OR

ORALLY INFLATED. NONDEFINITIVE SPEC/STD DATA: LPU-10/P TYPE. NON-DEFINITIVE

**GOVERNMEN** 

T SPEC/STD: MILL38484.

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Physical/Chemical Properties

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HCC: G3

Boiling Point: =53.9C, 129.F M.P/F.P Text: UNKNOWN Decomp Text: UNKNOWN Vapor Pres: 745 PSIG Vapor Density: 1997 AIR=1

Spec Gravity: 1.98

Solubility in Water: 180G/CC

Appearance and Odor: COLORLESS GAS. SLIGHTLY PUNGENT ODOR.

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: NONE.

Materials To Avoid: REACTION METALS (E.G., MAGNESIUM AND ALUMINUM), HYDRIDES,

MOIST CESIUM OXIDE, LITHIUM ACETYL, SODIUM PEROXIDE.

Hazardous Decomposition Products: CARBON MONOXIDE AND OXYGEN WHEN HEATED ABOVE

1700C.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

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**Toxicological Information** 

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**Ecological Information** 

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**MSDS** Transport Information

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Transport Information: CARBON DIOXIDE CYLINDER INCLUDED WITH UNDER ARM LIFE

PERSERVER. NET WEIGHT OF COMPRESSED CARBON DIOXID

E IS 29 GRAMS (1.02 OZ) PER CYLINDER. \_\_\_\_\_ Regulatory Information -----\_\_\_\_\_ Other Information \_\_\_\_\_\_ Transportation Information \_\_\_\_\_ Responsible Party Cage: 2W134 Trans ID NO: 88727 Prod uct ID: CARBON DIOXIDE MSDS Prepared Date: 02/28/1991 Review Date: 03/02/2000 MFN: 2 Net Unit Weight: 29 GM Multiple KIT Number: 0 Review IND: Y Unit Of Issue: EA Container QTY: 1 Additional Data: CARBON DIOXIDE CYLINDER INCLUDED WITH UNDER ARM LIFE PERSERVER. NET WEIGHT OF COMPRESSED CARBON DIOX IDE IS 29 GRAMS (1.02 OZ)/ CYLINDER. -----Detail DOT Information \_\_\_\_\_\_ DOT PSN Code: CUX DOT Pro per 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 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 Gr

oup: -

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

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

Cage: 2W134

Company Name: LELAND LTD INC Street: 2614 S CLINTON AVE City: SOUTH PLAINFIELD NJ

Zipcode: 07080

Health Emergency Phone: 908-668-1310,800-424-9300(CHEMTREC)

Label Required IND: Y

Date Of Label Review: 03/02/2000

Status Code: C

Label Date: 08/07/1995 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None

Hazard And Precautions: SKIN: AS GAS ESCAPES, CYLINDER FREEZES. INHALATION:

HIGH CONCENTRATIONS INDUCE ASPHXIA. STORE IN COOL AREA

, BELOW 140F. FIRST
AID: VENTILATE WITH AIR OR OXYGEN. CYLINDER TEMPERATURE WILL DECREASE AS A
RELEASE OCCURS, CAUSING FREEZE BURNS IFCYLINDER IS TOUCHED. TARGET ORGANS:
SKIN, RESPIRATORY SYSTEM.

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