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LELAND LIMITED INC

-- CARBON DIOXIDE

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MSDS Safety Information

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FSC: 4220

NIIN: 00-543-6693 MSDS Date: 02/28/1991 MSDS Num: BJRNZ

Product ID: CARBON DIOXIDE

MFN: 01

Responsible Party Cage: 2W134

Name: LELAND LIMITED INC Address: 382 SOMERVILLE RD City: BEDMINSTER NJ 07921-9779

Info

Phone Number: 908-668-1310

Emergency Phone Number: 908-668-1008/908-781-7800

Preparer's Name: LELAND STANFORD, VP

Review Ind: Y Published: Y

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**Contractor Summary** 

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Cage: 2W134

Name: LELAND LTD INC

Address: 2614 S CLINTON AVE City: SOUTH PLAINFIELD NJ 07080 Phone: 908-561-2000; 908-568-1310

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Item Description Information

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Item Manager: S9I

Item Name: CARTRIDGE, COMPRESSED GAS

Specification Number: MIL-C-25369

Type/Grade/Class: 2 TYPE

Unit of Issue: EA UI Container Qty: 1

Type of Container: STEEL CYLINDR

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Ingredients

Cas: 124-38-9

RTECS #: FF6400000 Name: CARBON DIOXIDE

% Wt: 100

Other REC Limits: NONE SPECIFIED

OSHA PEL: 5000 PPM

ACGIH TLV: 5000PPM/30000STEL;93

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Cas: 10024-97-2

RTECS #: QX1350000 Name: NITROUS OXIDE

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: 50 PPM; 9192

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Health Hazards Data

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LD50 LC50 Mixture: LD 50 ORAL RAT IS UNKNOWN

Route Of Entry Inds - Inhalation: YES

Skin: NO Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: CARBON DIOXIDE IS AN ASPHYXIANT. HIGH CONCENTRATIONS CA

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PRODUCE PARALYSIS OF THE RESPIRATORY CONTROL CENTER OF THE NERVOUS SYSTEM. 2-3% WILL INCREASE RESPIRATION. >4% PRODUCES LABORED BREATHING AND I S DANGEROUS FOR EVEN A FEW MINUTES. >12% CAUSES RAPID UNCONSCIOUSNESS AND DEATH.

Explanation Of Carcinogenicity: NONE OF THE INGREDIENTS IN THIS PRODUCT IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

Signs And Symptions Of Overexposure: FAINT "ACIDIC" TASTE, HEADACHE, DIZZINESS, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, DROWSINESS, AND RINGING OF THE EARS.

AS GAS ESCAPES, CYLINDER FREEZES, MAY CAUSE SKIN BURNS OR REDNESS.

Medical Cond Aggravated By Exposure: PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDER SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE. RECOVERY IS USUALLY RAPID FROM SHORT TERM OVEREXPOSURE.

First Aid: FIRST AID: INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. RESCUE PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS WIHT FULL FACE MASK.

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Handling and Disposal

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Spill Release Procedures: REMOVE PERSONNEL. VENTILATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS. MOVE LEAKING CONTAINER OUTDOORS IF WITHOUT RISK. SLOWLY RELEASE INTO ATMOSHPHERE. RETURN DEFECTIVE CYLINDER TO SUPPLIER. TEST AREA FOR OXYGEN BEFORE ALLOWING RE-ENTRY.

Waste Disposal Methods: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. MANUFACTURER RECOMMENDS VENTIN

G SLOWLY TO ATMOSPHERE WITH ADEQUATE VENTILATIONS. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: STORE CARBON DIOXIDE CYLINDERS UPRIGHT IN A COOL (BELOW 140F), DRY LOCATION, AWAY FROM CHEMICALS WITH SAFETY CAP INSTALLED.

Other Precautions: NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK. CYLINDER TEMPERATURE WILL DECREASE AS RELEASE OCCURS. C AUSING

FREEZE BURNS IF CYLINDER IS TOUCH

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Fire and Explosion Hazard Information

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Extinguishing Media: NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE.

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

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

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**Control Measures** 

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Respiratory Protection: WEAR SELF-CONTAINED BREATHING APPARATUS WHEN CONCENTRATIONS ARE ABOVE PEL.

Ventilation: MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.

Protective Gloves: LEATHER GLOVES.

Eye Protection: SAFETY GLASSES OF FULL FACE SHIELD.

Other Protective Equipment: SELF-CONTAINED BREATHING APPARATUS. SAFETY SHOES.

DO NOT WEAR CONT

ACT LENSES.

Work Hygienic Practices: KEEP SAFETY VALVES IN GOOD WORKING CONDITIONS. KEEP DEBRIS AND UNNECESSARY EQUIPMENT AWAY FROM CO2 EQUIPMENT.

Supplemental Safety and Health: CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY.

CARBON DIOXIDE, BEING HEAVIER THAN AIR, TENDS TO ACCUMULATE NEAR THE FLOOR OF
AN ENCLOSED SPACE DISPLACING THE AIR AND CREATING AN OXYGEN DEFFICIENT
ATMOSPH ERE. VENTILATE BEFORE ENTRY. VERIFY SUFFICIENT OXYGEN CONCENTRATION.

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Physical/Chemical Properties

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HCC: G3

B.P. Text: 129F,54C

Decomp Text: UNKNOWN Vapor Pres: 745 PSIG Vapor Density: 1.5 Spec Gravity: 1.98

Solubility in Water: SLIGHT

Appearance and Odor: COLORLESS GAS. SLIGHT PUNGENT ODOR.

Corrosion Rate: UNKNOWN

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Reactivity Data

Stability Indicator: YES Stability Condition To Avoid:

HIGH HEAT, OPEN FLAMES. Materials To Avoid: NONE Hazardous Decomposition Products: IN THE PRESENCE OF AN ELECTRICAL DISCHARGE, CARBON DIOXIDE IS DECOMPOSED TO FORM CARBON MONOXIDE AND OXYGEN. Hazardous Polymerization Indicator: NO \_\_\_\_\_ **Toxicological Information** \_\_\_\_\_\_ **Ecological Information** \_\_\_\_\_\_ \_\_\_\_\_\_ MSDS Transport Information \_\_\_\_\_ \_\_\_\_\_\_ Regulatory Information \_\_\_\_\_ \_\_\_\_\_ Other Information \_\_\_\_\_ \_\_\_\_\_ Transportation Information \_\_\_\_\_\_ Responsible Party Cage: 2W134 Trans ID NO: 76077 Product ID: CARBON DIOXIDE MSDS Prepared Date: 02/28/1991 Review Date: 04/19/1991 MFN: 1 Net Unit Weight: UNKNOWN Multiple KIT Number: 0 Review IND: Y Unit Of Issue: EA Container QTY: 1 Type Of Container: STEEL CYLINDR \_\_\_\_\_ Detail DOT Information

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DOT PSN Code: CUX **DOT Proper Shipping Nam**  e: 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

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: -

Subsidiar y 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

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 Eme rgency Phone: 201-234-1750; 908-668-1008

Label Required IND: Y

Date Of Label Review: 06/02/1993

Status Code: C

Label Date: 06/02/1993 Origination Code: G Eye Protection IND: YES Skin Protection IND: YES Signal Word: CAUTION Health Hazard: Slight Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None

Hazard And Precautions: ACUTE: SIMPLE ASPHYXIANT. BREATHING HIGH CONCENTRATIONS OF VAPORS CAN CAUSE INCREASED RESPIRATION, LABORED BREATHING, FAINT "ACIDIC" TASTE, HEADACHE, DIZZINESS,

SHORTNESS OF BREATH, MUSCULAR WEAKNESS,

DROWSINESS, RINGING OF THE EARS, UNCONSCIOUSNESS AND SUFFOCATION. CONTACT WITH LIQUID CAN CAUSE FROSTBITE.

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