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MSDS Safety Information

LELAND LIMITED INC

-- CARBON DIOXIDE, GAS

FSC: 4220

NIIN: 00-630-8714 MSDS Date: 10/19/1996 MSDS Num: CFRDV

Product ID: CARBON DIOXIDE, GAS

MFN: 01

Responsible Party Cage: 2W134

Name: LELAND LIMITED INC Address: LAMINGTON RD

Box: 382

City: BEDMINSTER NJ 07921-

9779

Info Phone Number: 908-668-1008

Emergency Phone Number: 908-668-1008

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

Cage: 87286

Name: SPARKLET DEVICES INC Address: 4400 GUSTINE AVE City: ST LOUIS MO 63116-1712

Phone: 314-353-0400

Item Description Information

Item Manager: S9I Unit of Issue: EA UI Container Qty: 1

Ingredients

Cas: 124-38-9

RTECS #: FF6400000 Name: CARBON DIOXIDE

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 5000 PPM

ACGIH TLV: 5000PPM/30000STEL;96

Health

Hazards Data

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, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIONS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH.

INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.

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: PERSONNE

L 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 APPARAT US.

ORAL:NOT LIKELY.

Handling and Disposal

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 PLACE. DO NOT STORE ABOVE 120F. KEEP OUT OF REACH OF CHILDREN.

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 N

EAR THE FLOOR IN CLOSED S PACES.

READ ALL LABELS INSTRUCTIONS.

Fire and Explosion Hazard Information

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: THOUGH GAS CYLINDERS ARE EQUIPPED WITH PRESSURE RELIEF DEVICES, THEY SHOULD BE REMOVED FROM FIRE TO AVOID RISK OF RUPTURE.

Control Measures

Respiratory Protection: NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUC T.

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.

Supplemental Safety and Health: CARBON DIOXIDE CYLINDER IN LIFE PRESERVER.

Physical/Chemical Properties

HCC: G3

NRC/State LIC No: NOT RELEVANT

B.P. Text: -109F,-78C M.P/F.P Text: -71F,-57C Decomp Text: UNKNOWN Vapor Pres: 43700@21C

Vapor Density: 1.5 Spec Gravity: 1.52

PH: ACIDIC

Evaporation Rate & Evaporation Rate & Reference: NOT RELEVANT (GAS)

Solubility in Water: SOLUBLE

Appearance and Odor: COLORLESS, ODORLESS GAS WITH A SLIGHT ACIDIC TASTE. Corrosion Rate: UNKNOWN ______ Reactivity Data _____ Stability Indicator: YES Stability Condition To Avoid: OVERHEATING CYLINDERS Materials To Avoid: (AL+NA2O2), CS2O, LITHIUM, POTASSIUM, MG(C2H5)2, (MG+NA2O), SODIUM Hazardous Decomposition Products: NONE Hazardous Polymerization Indicator: NO Conditions To Avoid Polymeriz ation: NOT RELEVANT _____ Toxicological Information ______ _____ **Ecological Information** ______ ______ **MSDS** Transport Information ______ Regulator y Information ______ ______ Other Information ______ ______ Transportation Information ______ Responsible Party Cage: 2W134 Trans ID NO: 80319 Product ID: CARBON DIOXIDE, GAS MSDS Prepared Date: 10/19/1996 Review Date: 12/03/1997

MFN: 1

Multiple KIT Nu

mber: 0

Review IND: Y Unit Of Issue: EA Container QTY: 1

Additional Data: PRODUCT IS A LIFE PRESERVER WITH CARBON DIOXIDE GAS FOR

INFLATION.

Detail DOT Information

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail IMO Information

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IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

Detail IATA Information

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail AFI Information

AFI PSN Code: ZZZ

AFI Proper Shipping Name

: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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

Label Required IND: Y

Date Of Label Review: 10/12/1999

Status Code: A Origination Code: G

Hazard And Precautions: TARGET ORGANS:LUNGS, CNS, EYES, SKI

N. ACUTE- CONTACT

WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATIONS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.

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