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LELAND LIMITED INC -- CARBON DIOXIDE, GAS

MSDS Safety Information

_____ FSC: 4220 NIIN: 01-391-9844 MSDS Date: 10/19/1996 MSDS Num: CJKBT 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: 1-800-424-9300 _____ Item Description Information _____ Item Manager: S9I Item Name: LIFE RAFT, INFLATABLE Unit of Issue: EA UI Container Qty: 1 ______ Ingredients _____ Cas: 124-38-9 RTECS #: FF6400000 Name: CARBON DIOXIDE GAS Percent by W t: 100. OSHA PEL: 9000 MG/M3;5000 PPM ACGIH TLV: 9000 MG/M3;5000 PPM ACGIH STEL: 54000 MG/M3 _____ Health Hazards Data _____ Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: NO Carcinogenicity Inds - NTP: NO IARC: NO OSHA: NO Effects of Exposure: TARGET ORGANS: HEART, RESPIRATORY AND NERVOUS SYSTEM.

INHALATION: INITIALLY RESULTS IN A COMPENSATORY INCREASE IN BOTH RATE & amp; DEPTH O F VENTILATION. BEYOND A CERTAIN POINT MAY REVERSE TO HYOPVENTILATI ON RESULTING IN RESPIRATORY ACIDOSIS. DEATH FFROM ASPHYXIA MAY OCCUR IF CONC. & DURATION OF EXPOSRUE ARE SUFFICIENT. SKIN: NO EFFECTS FROM GAS. LIQUID MAY CAUSE FROSTBITE. EYES: AT HIGH CONC. IN AIR, MAY CAUSE STINGING SENSATION; MAY CAUSE IRRITATION. INGESTION: UNLIKELY. IF LIQUID IS SWALLOWED, MAY CAUSE FROSTBITE DAMAGE TO LIPS, MOUTH AND MUCOUS MEMBRANES. Signs And Symptions Of Overexposure: INHALATION: INCREASE

IN BOTH RATE & amp;

DEPTH OF VENTILATION. SKIN: REDNESS, TINGLING, PAIN, OR NUMBNESS FI LIQUID CONTACT IS MADE. IN SEVERE CASES, THE SKIN MAY BECOME HARD, WHITE, AND DEVELOP BLISTERS. EYES: STINGING SENSATION.

First Aid: INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY & amp; BLOOD PRESSURE. KEEP AFFECTED PERSON WARM. GET MEDICAL ATTENTIO N IMMEDIATELY. SKIN :FOR FROSTBITE, WARM AFFECTED AREA IN WA TER (107F). IF

WARM WATER IS UNAVAILABLE, GENTILY WRAP AFFECTED AREA IN BLANKETS. ALLOW CIRCULATION TO RETURN NATURALLY. GET MEDICAL ATTENT ION IMMEDIATELY. EYES: WASH WITH LARGE AMOUNTS OF WARM WATER FOR 15-20 MIN. GET MEDICAL ATTNETION IMMEDIATELY. INGESTION: TREAT SYMPTOMATICALLY & amp; GET MEDICAL ATTENTION.

Handling and Disposal

Waste Disposal Methods: FOR ASSISTANCE, CONTA

CT THE DISTRICT DIRECTOR OF THE

EPA.

Handling And Storage Precautions: STORE IN ACCORDANCE WITH 29 CFR 1910.101. Other Precautions: NONE

Fire and Explosion Hazard Information

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, OR HALON. FOR LARGER FIRES, USE WATER SPRAY, FOG OR STANDARD FOAM.

Fire Fighting Procedures: COOL FIRE-EXPOSED CYLINDERS WITH WATER FROM THE SIDE UNTIL WEL

L AFTER THE FIRE IS OUT. USE AGENTS SUITABLE FOR TYPE OF FIRE. COOL CYLINDERS WITH FLOODING AMOUNTS OF WATER, APPLIED FROM AS FAR A DISTAN CE AS POSSIBLE.

Unusual Fire/Explosion Hazard: GAS-NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME CYLINDER-MAY RUPTURE IN HEAT OF FIRE.

Control Measures

Respiratory Protection: SCBA, ONLY REQUIRED IN CONFINED SPACES.

Ventilation: PROVID

E GENERAL DILUTION VENTILATION. Eye Protection: NOT REQUIRED, BUT ADVISABLE. Other Protective Equipment: NOT REQUIRED UNLESS MULTIPLE CYLINDERS RELEASE IN CONFINED SPACES.

Physical/Chemical Properties

_____ HCC: G3 Boiling Point: =-79.C, -110.2F **B.P. Text: (SUBLIMES)** Melt/Freeze Pt: =-57.C, -70.5F M.P/F.P Text: @4000 MMHG Vapor Pres: 43700 MMHG@21C Vapor Density: 1.5 Spec Gravity: 1.52@21 С PH: ACIDIC IN SOL'N Solubility in Water: SOLUBLE Appearance and Odor: ODORLESS. COLORLESS GAS, WITH A SLIGHT ACIDIC TASTE. _____ **Reactivity Data** _____ Stability Indicator: YES Stability Condition To Avoid: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES. Materials To Avoid: ACRYLALDEHYDE, BA PEROXIDE, CE OXIDE, DIETHYL MG, ETHYLENEIMINE, HYDRAZINE, METAL ACETYLIDES, METAL HYDRIDES, METALS, Ρ OTASSIUM, POTASSIUM-SODIUM ALLOYS, SODIUM, SODIUM PEROXIDE. Hazardous Decomposition Products: TEMPERATURES ABOVE 1700 C MAY CAUSE DECOMPOSITION AND THE RELEASE OF OXYGEN AND HIGHLY TOXIC CARBON MONOXIDE. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: HARDOUS POLYMERIAZATION HAS NOT BEEN REPORTEDTO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURE. ______ **Toxicological Information** ______ _____ Ecological Information _____ **MSDS** Transport Information Transport Information: PER MANUFACTURER OF THE LIFE RAFT: UN2990, LIFE-SAVING APPLIANCES, SELF-INFLATING. ______

Regulatory Information

Other Information

Transportation Information

Responsible Party Cage: 2W134

Trans ID NO: 147011 Product ID: CARBON DIOXIDE, GAS MSDS Prepared Date: 10/19/1996 Review Date: 04/12/2000 MFN: 1 Net Unit Weight: 4.46 LB GAS Multiple KIT Number: 0 Unit Of Issue: EA Container QTY: 1 Additional Data: EACH DEVICE HAS A CYLINDER CONTAINING 205 CU FT OF CARBON DIOXIDE GAS. WEIGHT OF EMPTY CYLINDER = 10 .16 LBS, WEIGHT OF GAS PLUS CYLINDER IS 14.62 LBS. PSN PER MARKINGS ON THE STOCK.

Detail DOT Information

DOT PSN Code: IHN DOT Proper Shipping Name: LIFE-SAVING APPLIANCES, SELF INFLATING Hazard Class: 9 UN ID Num: UN2990 Label : NONE Non Bulk Pack: 219 Bulk Pack: NONE Max Qty Pass: NO LIMIT Max Qty Cargo: NO LIMIT Vessel Stow Req: A

Detail IMO Information

IMO PSN Code: IYJ IMO Proper Shipping Name: LIFE-SAVING APPLIANCES, SELF-INFLATING IMDG Page Number: 9032 UN Number: 2990 UN Hazard Class: 9 IMO Packaging Group: -Subsidiary Risk Label: -EMS Number: MED First Aid Guide NUM: ss _____

Detail IATA Information

_____ IATA PSN Code: PAY IATA UN ID Num: 2990 IATA Proper Shipping Name: LIFE-SAVING APPLIANCES, SELF-INFLATING IATA PSN Modifier: ,(APPLIES TO LIFE-SAVING APPLIANCES THAT PRESENT A HAZARD IF THE SELF-INFLATING DEVICE IS ACTIVATED ACCIDENTALLY). IATA UN Class: 9 IATA Label: MISCELLANEOUS Packing Note Passenger: SEE 905 Max Quant Pass: SEE 905 Max Quant Cargo: SEE 905 Packaging Note Cargo: **SEE 905** Exceptions: A48, A87 _____ Detail AFI Information _____ AFI PSN Code: PAY AFI Proper Shipping Name: LIFE-SAVING APPLIANCES, SELF INFLATING AFI Hazard Class: 9 AFI UN ID NUM: UN2990 **Special Provisions: P5** Back Pack Reference: A13.11 _____ HAZCOM Label _____ Product ID: CARBON DIOXIDE, GAS С age: 2W134 Company Name: LELAND LTD INC Street: 2614 S CLINTON AVE City: SOUTH PLAINFIELD NJ Zipcode: 07080 Health Emergency Phone: 1-800-424-9300 Label Required IND: Y Date Of Label Review: 08/04/1999 Status Code: A Origination Code: F Eye Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: TARGET ORGANS: HEART, RESPIRATORY AND NERVOUS SYSTEM. INHALATION: INIT

IALLY RESULTS IN A COMPENSATORY INCREASE IN BOTH RATE & amp; DEPTH OF VENTILATION. BEYOND A CERTAIN POINT MAY REVERSE TO HYOPVENTILATI ON RESULTING IN RESPIRATORY ACIDOSIS. DEATH FFROM ASPHYXIA MAY OCCUR IF CONC. & amp; DURATION OF EXPOSRUE ARE SUFFICIENT. SKIN: NO EFFECTS FROM GAS. LIQUID MAY CAUSE FROSTBITE. EYES: AT HIGH CONC. IN AIR, MAY CAUSE STINGING SENSATION; MAY CAUSE IRRITATION. INGESTION: UNLIKELY. IF LIQUID IS SWALLOWED, MAY CAUSE FROSTBITE DAMAGE TO LIPS, MOUTH AND MUCOUS MEMBRANES.

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