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LIQUID AIR CORP CALIFORNIA PLZ -- OXYGEN GAS

MSDS Safety Information

_____ FSC: 6830 NIIN: 01-108-6039 MSDS Date: 09/02/1991 MSDS Num: CDQNH Product ID: OXYGEN GAS MFN: 02 **Responsible Party** Cage: 18260 Name: LIQUID AIR CORP CALIFORNIA PLZ Address: 2121 N CALIFORNIA BLVD City: WALNUT CREEK CA 9 4596 Info Phone Number: 415-977-6500 / FAX 415-977-6747 Emergency Phone Number: 415-977-6500 Preparer's Name: CORPORATE SAFETY OFFICE Review Ind: Y Published: Y ______ Contractor Summary _____ Cage: 11243 Name: COSMODYNE LLC Address: 2920 COLUMBIA ST City: TORRANCE CA 90503-3881 Phone: 310-320-5650 Cage: 18260 Name: LIQUID AIR CORP ONE CALIFORNIA PLAZA Address: 2121 N. CALIFORNIA BLVD City: WALNUT **CREEK CA 94596** Phone: 415-977-6500 Item Description Information _____ Item Manager: S9G Item Name: CALIBRATING GAS MIXTURE Specification Number: G-4.3-1994 Type/Grade/Class: TYPE I, GRADE F Unit of Issue: CY Quantitative Expression: 0000000080CF UI Container Qty: 1 Type of Container: CYLINDER _____

Ingredients

_____ Cas: 7782-44-7 RTECS #: RS2060000 Name: OXYGEN % Wt: 99-100 Other REC Limits: NONE SPECIFIED **OSHA PEL: NOT ESTABLISHED** ACGIH TLV: NOT ESTABLISHED _____ Health Hazards Data ______ LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN Route Of Entry Inds - Inhalation: YES Skin: YES Ingestion: NO Carcinogenicity Inds - NTP: NO IARC: NO OSHA: NO Effects of Exposure: INHALATION: HIG H CONCENTRATIONS CAUSES SYMPTOMS OF HYPEROXIA. SKIN AND EYES: CONTACT WITH LIQUID PRODUCT MAY CAUSE TISSUE FREEZING. Explanation Of Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN. Signs And Symptions Of Overexposure: INHALATION: CRAMPS, NAUSEA, DIZZINESS, HYPOTHERMIA, AMBYLOPIA, RESPIRATION DIFFICULTIES, BRADYCARDIA, FAINTING SPELLS AND CONVULSIONS CAPABLE OF LEADING TO DEATH. Medical Cond Aggravated By Exposure: N ONE SPECIFIED BY MANUFACTURER. First Aid: INHALATION: REMOVE TO FRESH AIR. ADMINISTER BREATHING SUPPORT MEASURES IF NECESSARY. PHYSICIAN SHOULD BE INFORMED THAT THE VICTIM COULD BE EXPERIENCING HYPEROXIA. SKIN: REMOVE CONTAMINATED CLOTHING AN D FLUSH AFFECTED AREAS WITH LUKEWARM WATER. DO NOT USE HOT WATER. EYES: DO NOT WASH THE EYES WITH HOT OR EVEN TEPID WATER. TAKE VICTIM TO AN OPTHALMOLOGIST FOR TREATMENT AND FOLLOW UP. ______ Handli

ng and Disposal

Spill Release Procedures: KEEP COMBUSTIBLES AWAY FROM SPILLED MATERIAL. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. ISOLATE AREA UNTIL GAS HAS DISPERSED.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTATIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SE CURED AND VALVE PROTECTION CAP IN PLACE TO ALPHAGAZ FO R PROPER DISPOSAL. Handling And Storage Precautions: USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. Other Precautions: DO NOT HEAT CYLINDER BY ANY MEANS TO INCREASE THE DISCHARGE RATE OF PRODUCT FROM THE CYLINDER. PROTECT CYLINDERS FROM PHYSICAL DAMAGE. DO NOT ALLOW THE TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 130F. _____ ______ Fire and Explosion Hazard Information _____ Extinguishing Media: COPIOUS QUANTITIES OF WATER FOR FIRES WITH OXYGEN AS THE OXIDIZER. CAN USE DRY CHEMICAL OR CARBON DIOXIDE FOR SMALL FIRE Fire Fighting Procedures: IF POSSIBLE, STOP THE FLOW OF OXYGEN WHICH IS SUPPORTING THE FIRE AND MOVE CONTAINER FROM FIRE AREA. SPRAY COOLING WATER ON CYLINDERS. Unusual Fire/Explosion Hazard: HIGH PRESSURE OXIDIZ ING GAS. HIGH TEMPERATURES OR FIRE MAY CAUSE EXPLOSIVE RUPTURE OF CYLINDER. VIGOROUSLY ACCELERATES COMBUSTION (BURNING). _____ **Control Measures** ______ Respiratory Protection: NONE SPECIFIED BY MANUFACTURER. Ventilation: USE LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS THAT INCREASE THE OXYGEN LEVEL IN AIR TO MORE THAN 25%. Protective Gloves: LOOSE FITTING AND INSULATED. Eve P rotection: SAFETY GOGGLES OR GLASSES & FACE SHIELD. Other Protective Equipment: SAFETY SHOES, SAFETY SHOWER. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health: NSN FOR CYLINER ONLY: 8120-01-205-1424, DOT 3AA2015. ______ Physical/Chemical Properties _____ HCC: G4 B.P. Text: -297F,-183C M.P/F.P Text: -362F,-219C Decomp Text: UNKNOWN Vapor Pres: UNKNOWN

Vapor D

ensity: 0.08LB/FT3 Spec Gravity: 1.11 Viscosity: UNKNOWN Solubility in Water: SLIGHT Appearance and Odor: COLORLESS, ODORLESS GAS. Corrosion Rate: UNKNOWN

Reactivity Data

Stability Indicator: YES Stability Condition To Avoid: HIGH TEMPERATURES Materials To Avoid: THIS PRODUCT VIGOROUSLY ACCELERATES CONBUSTION. Hazardous Decomposition Products: NONE SPECIFIED BY MANUFACTURER. Hazardous Polymerization Indicator: NO

MSDS Transport Information

Regulatory Information

Transportation Information

Responsible Party Cage: 18260 Trans ID NO: 108023 Product ID: OXYGEN GAS MSDS Prepared Date: 09/02/1991 Review Date: 04/28/1997 MFN: 2 Net Unit Weig ht: UNKNOWN Multiple KIT Number: 0 **Review IND: Y** Unit Of Issue: CY Container QTY: 1 Type Of Container: CYLINDER Additional Data: PSN IS PER MFR MSDS. _____ **Detail DOT Information** _____ DOT PSN Code: LEH DOT Proper Shipping Name: OXYGEN, COMPRESSED Hazard Class: 2.2 **UN ID Num: UN1072** Label: NONFLAMMABLE GAS, OXIDIZER Special Provision: A52 Packaging Exception: 306 Non Bulk Pack: 302 Bulk Pack: 314 .315 Max Qty Pass: 75 KG Max Qty Cargo: 150 KG Vessel Stow Req: A _____ **Detail IMO Information** IMO PSN Code: LBP IMO Proper Shipping Name: OXYGEN, COMPRESSED IMDG Page Number: 2169 UN Number: 1072 UN Hazard Class: 2(2.2) IMO Packaging Group: -Subsidiary Risk Label: OXIDIZING AGENT EMS Number: 2-04 MED First Aid Guide NUM: NON ______ Detail I ATA Information _____ IATA PSN Code: SWO IATA UN ID Num: 1072 IATA Proper Shipping Name: OXYGEN, COMPRESSED IATA UN Class: 2.2 Subsidiary Risk Class: 5.1 IATA Label: NON-FLAMMABLE GAS & amp; OXIDIZER Packing Note Passenger: 200 Max Quant Pass: 75KG Max Quant Cargo: 150KG Packaging Note Cargo: 200 _____ **Detail AFI Information** _____

AFI PSN Code: SW

0

AFI Proper Shipping Name: OXYGEN, COMPRESSED AFI Hazard Class: 2.2 AFI UN ID NUM: UN1072 AFI Label: 5.1 Special Provisions: P5 Back Pack Reference: A6.3, A6.6

HAZCOM Label

Product ID: OXYGEN GAS Cage: 18260 Company Name: LIQUID AIR CORP ONE CALIFORNIA PLAZA Street: 2121 N. CALIFORNIA BLVD City: WALNUT CREEK CA Zipcode: 94596 Health Emergency Phone: 415-977-6500 Label Required IND: Y

Date Of Label Review: 04/28/1997 Status Code: C Label Date: 04/28/1997 Year Procured: 1991 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: WARNING **Respiratory Protection IND: YES** Health Hazard: Moderate Contact Hazard: Moderate Fire Hazard: None Reactivity Hazard: None Hazard And Precautions: CONTACT WITH LIQUID MAY CAUSE FROSTBITE. CYLINDER MAY EXPLODE IN HEAT OF FIRE. USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CON TAINER IS SECURED WITH VALVE OUTL ET PIPED TO USE POINT. FIRST AID: INHALATION: REMOVE TO FRESH AIR. ADMINISTER BREATHING SUPPORT MEASURES IF NECESSARY. PHYSICIAN SHOULD BE INFORMED THAT THE VICTIM COULD BE EXPERIENCING HYPEROXIA. SKI N: REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREAS WITH LUKEWARM WATER. DO NOT USE HOT WATER. EYES: DO NOT WASH THE EYES WITH HOT OR EVEN TEPID WATER. TAKE VICTIM TO AN OPTHALMOLOGIST FOR TREATM ENT AND FOLLOW UP.

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