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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

94596

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: WALNU

T 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: 00000000080CF

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: HI

GH 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:

NONE 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.

Handl

ing 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 S

ECURED 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 OXIDI

ZING 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.

Eye

Protection: 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

Density: 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. Hazardou s Polymerization Indicator: NO _____ Toxicological Information _____ _____ **Ecological Information** _____ _____ **MSDS** Transport Information ______ ______ Regulatory Information -----______

Other 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 Wei ght: 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: 31

Bulk Pack: 3

4,315

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

IATA 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: S

WO

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:

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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 CO NTAINER 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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