

LIQUID AIR CORP CALIFORNIA PLZ -- OXYGEN GAS

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MSDS Safety Information
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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

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Contractor Summary
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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

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Item Description Information
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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

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Ingredients
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Cas: 7782-44-7
RTECS #: RS2060000
Name: OXYGEN
% Wt: 99-100
Other REC Limits: NONE SPECIFIED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
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Health Hazards Data

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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: HIGH 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 Symptoms 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 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 OPHTHALMOLOGIST FOR TREATMENT AND FOLLOW UP.

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Handling and Disposal

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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 QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SE

CURED AND VALVE PROTECTION CAP IN PLACE TO ALPHAGAZ FOR 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.

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Fire and Explosion Hazard Information

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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 OXIDIZING GAS. HIGH TEMPERATURES OR FIRE MAY CAUSE EXPLOSIVE RUPTURE OF CYLINDER. VIGOROUSLY ACCELERATES COMBUSTION (BURNING).

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Control Measures

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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 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.

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Physical/Chemical Properties

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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

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Reactivity Data
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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

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Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
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Transportation Information
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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.

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Detail DOT Information
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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

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Detail IMO Information
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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

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Detail I
ATA Information
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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 & OXIDIZER
Packing Note Passenger: 200
Max Quant Pass: 75KG
Max Quant Cargo: 150KG
Packaging Note Cargo: 200

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Detail AFI Information
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AFI PSN Code: SW

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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

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HAZCOM Label
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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 OUTLET
PIPED TO USE POINT. FIRST AID: INHALATION: REMOVE TO FRESH AIR. ADMINISTER
BREATHING SUPPORT MEASURES IF NECESSARY. PHYSICIAN SHOULD BE INFORMED THAT
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