

LIQUID AIR CORP,ALPHAGAZ DIV -- 0.1-17.9% OXYGEN IN NITROGEN

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MSDS Safety Information
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FSC: 6830
NIIN: 01-309-7635
MSDS Date: 01/01/1992
MSDS Num: BYFCJ
Product ID: 0.1-17.9% OXYGEN IN NITROGEN
MFN: 01
Responsible Party
Cage: 1JK08
Name: LIQUID AIR CORP,ALPHAGAZ DIV
Address: 2121 N CALIFORNIA BLVD
City: W
ALNUT CREEK CA 94596
Info Phone Number: 510-977-6500 / FAX 510-977-6747
Emergency Phone Number: 510-977-6500
Preparer's Name: NONE
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 42568
Name: LIQUID AIR CORP ALPHAGAZ DIVISION
Address: 2121 N CALIFORNIA BLVD
City: WALNUT CREEK CA 94596
Phone: 510-977-6500
Cage: 1JK08
Name: LIQUID AIR CORP,CARDOX CORP DIV
Address: 150 S WARNER RD, SU
ITE 268
City: KING OF PRUSSIA PA 19406
Phone: 215-975-0880
Cage: 24821
Name: ROSEMOUNT ANALYTICAL INC
Address: 1201 N MAIN ST
Box: 901
City: ORRVILLE OH 44667-1016
Phone: 216-684-4449
Cage: 0ABX5
Name: S A R C O
Address: 55 HARKER AVENUE
City: BERLIN NJ 08009
Phone: 609-795-0699

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Item Description Information
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Item Manager: S9G
Item Name: CALIBRATING GAS MIXTURE
Specification Number: NON

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Type/Grade/Class: NONE

Unit of Issue: EA

UI Container Qty: 1

Type of Container: CYLINDER

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Ingredients
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Cas: 7727-37-9

RTECS #: QW9700000

Name: NITROGEN

% Wt: 82-99.9

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: ASPHYXIAN; 9394

Cas: 7782-44-7

RTECS #: RS2060000

Name: OXYGEN

% Wt: 0.1-18

Other REC Limits: NONE RECOMMENDED

OSHA P

EL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED
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Health Hazards Data
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LD50 LC50 Mixture: UNKNOWN

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: HIGH CONCENTRATIONS DISPLACE THE OXYGEN IN THE AIR
NECESSARY FOR LIFE.

Signs And Symptoms Of Overexposure: HEADACHE, DIZZINESS, LABORED BREATHING AND
EVENTUA

L UNCONSCIOUSNESS.

Medical Cond Aggravated By Exposure: PERSONS IN ILL HEALTH.

First Aid: CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA AND
INHALE FRESH AIR. QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT.
UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATE D AREA, GIVEN
ASSISTED RESPIRATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE
SYMPTOMATIC AND SUPPORTIVE.
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Handling and Disposal
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Spill Release Procedures: EVACUATE PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. REMOVE LEAKING CONTAINER TO OPEN AIR AWAY FROM PERSONNEL. (PER DSCR- SINCE NO INSTRUCTIONS RECEIVED FROM DISTRIBUTOR OF DISPOSABLE CYLINDERS OF CALIBRATING GAS MIXTURE.)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSE OF WASTE IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. (PER DSCR- VENT GAS TO ATMOSPHERE IN OPEN AREA AWAY FROM ALL PERSONNEL. DISPOSE OF EMPTY CYLINDERS IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.)

Handling And Storage Precautions: USE ONLY IN WELL-VENTILATED AREAS. USE A PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE PIPING OR SYSTEMS. DO NOT HEAT.

Other Precautions: NONE

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Fire and Explosion Hazard Information
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Flash Point Text: NOT FLAMMABLE

Extinguishing Media: NONFLAMMABLE GAS MIXTURES. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: IF CYLINDERS ARE INVOLVED IN A FIRE, SAFELY RELOCATE OR KEEP COOL WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: NONE

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Control Measures
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Respiratory Protection: POSITIVE PRESSURE AIR-LINE WITH MASK OR SELF-CONTAINED BREATHING APPAR

ATUS.

Ventilation: LOCAL EXHAUST.

Protective Gloves: ANY MATERIAL

Eye Protection: SAFETY GOGGLES OR GLASSES.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: NORMAL WORKPLACE HYGENIC PRACTICES ARE ADEQUATE..

Supplemental Safety and Health: NONE

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Physical/Chemical Properties
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HCC: G3

B.P. Text: -320F,-196C

M.P/F.P Text: -346F,-210C

Decomp Text: UNKNOWN

Vapor Pres: UNKNOWN
Vapor Density: UNKNOWN
Spec Gravity: 0.97-0.99
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
Materials To Avoid: NONE
Hazardous Decomposition Products: NONE
Hazardous Polymerization Indicator: NO

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Toxicological Informa
tion
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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: 1JK08
Trans ID NO: 124194
Product ID: 0.1-17.9% OXYGEN IN NITROGEN
MSDS Prepared Date: 01/01/1992
Review Date: 02/23/1996
MFN: 1
Tech Entry NOS Shipping Nm: NITROGEN, OXYGEN.
Net Unit Weight: UNKNOWN
Multiple KIT Number: 0
Review I

ND: Y
Unit Of Issue: EA
Container QTY: 1
Type Of Container: CYLINDER

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Detail DOT Information
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DOT PSN Code: DQQ
Symbols: G
DOT Proper Shipping Name: COMPRESSED GASES, N.O.S.
Hazard Class: 2.2
UN ID Num: UN1956
Label: NONFLAMMABLE GAS
Special Provision: B13
Non Bulk Pack: 302,305
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: EQH
IMO Proper Shipping Name: COMPRESSED GAS, N.O.S. o
IMDG Page Number: 2124
UN Number: 1956
UN Hazard Class: 2(2.2)
IMO Packaging Group: -
Subsidiary Risk Label: -
EMS Number: 2-04
MED First Aid Guide NUM: 620

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Detail IATA Information
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IATA PSN Code: HDO
IATA UN ID
Num: 1956
IATA Proper Shipping Name: COMPRESSED GAS, N.O.S. *
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
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: HDO
AFI Symbols: *
AFI Proper Shipping Name: COMPRESSED GAS, N.O.S.
AFI Hazard Class: 2.2
AFI UN ID NUM: UN1956
Special Provisions: P5
Back P

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HAZCOM Label

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Product ID: 0.1-17.9% OXYGEN IN NITROGEN

Cage: 1JK08

Company Name: LIQUID AIR CORP,CARDOX CORP DIV

Street: 150 S WARNER RD, SUITE 268

City: KING OF PRUSSIA PA

Zipcode: 19406

Health Emergency Phone: 510-977-6500

Label Required IND: Y

Date Of Label Review: 02/23/1996

Status Code: C

Label Date: 02/23/1996

Origination Code: F

Eye Protection IND:

YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: HIGH CONCENTRATIONS DISPLACE THE OXYGEN IN THE AIR

NECESSARY FOR LIFE. USE ONLY IN WELL-VENTILATED AREAS. USE A PRESSURE
REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE PIPING OR
SYSTEMS . DO NOT HEAT. FIRST AID: CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN
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LE FRESH AIR. QUICK REMOVAL FROM THE CONTAMINATED

AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN
UNCONTAMINATED AREA, GIVEN ASSISTED RESPIRATION AND SUPPLEMENTAL OXYGEN.
FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE. TARGET ORGANS:
RESPIRATORY SYSTEM, SKIN, EYES.

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