LIQUID AIR CORP  -- 2-50 PPM NITROGEN DIOXIDE IN NITROGEN
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MSDS Safety Information
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FSC: 6830
MSDS Date: 01/01/1992
MSDS Num: CCDLM
LIIN: 00F051033
Product ID: 2-50 PPM NITROGEN DIOXIDE IN NITROGEN
MFN: 01
Responsible Party
Cage: 42568
Name: LIQUID AIR CORP
Address: 2121 N CALIFORNIA BLVD
City: WALNUT CREEK CA 94596
Info Phone Number: 415-977-6500
Emergency Phone Number: 415-977-6561
Review Ind: Y
Published: Y

Preparer Co. when other than Responsible Party Co.
==============================================================================
Cage: 42568
Name: LIQUID AIR CORP ALPHAGAZ DIVISION
Address: 2121 N CALIFORNIA BLVD
City: WALNUT CREEK CA 94596

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

Ingredients
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Cas: 7727-37-9
RTECS #: QN9700000
Name: NITROGEN
ACGIH TLV: ASPHYXIANT

Cas: 10102-44-0
RTECS #: QN9800000
Name: NITROGEN DIOXIDE
Other REC Limits: 3 PPM
OSHA PEL: 9 MG/CUM
ACGIH TLV: 5.6 MG/CUM
EPA Rpt Qty: 10 LBS
DOT Rpt Qty: 10 LBS

Health Hazards Data
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Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: NITROGEN IS A SIMPLE ASPHYXIANT.
Explanation Of Carcinogenicity: NONE
Signs And Symptoms Of Overexposure: ASPHYXIATION: HEADACHES, DIZZINESS,
LABORED BREATHING & UNCONSCIOUSNESS.
Medical Cond Aggravated By Exposure: PERSONS IN ILL HEALTH
First Aid: INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED.
TREATMENT SHOULD BE SYMPTOMATIC & SUPPORTIVE. OBTAIN MEDICAL ATTENTION IN
Handling and Disposal

Spill Release Procedures: EVACUATE AREA. USE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER/CONTAINER VALVE, CONTACT THE CLOSEST LIQUID AIR CORPORATION LOCATION. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED W/ANY VALVE OUTLET PLUGS/CAPS SECURED. NONFLAMMABLE GAS UN1956. DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Handling And Storage Precautions: PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREA & EMERGENCY EXITS.

Other Precautions: AVOID TEMP >125F. FULL & EMPTY CYLINDERS SHOULD BE SEPARATED. USE "FIRST IN-FIRST OUT" INVENTORY SYSTEM. USE A PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE PIPING/SYSTEMS. CLOSE VALVE AFTER EACH USE & WHEN EMPTY.

Fire and Explosion Hazard Information

Extinguishing Media: NONFLAMMABLE GAS MIXTURES

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

Unusual Fire/Explosion Hazard: NONE

Control Measures

Respiratory Protection: USE POSITIVE PRESSURE AIR LINE W/MASK/SCBA.

Ventilation: LOCAL EXHAUST: PREVENT ACCUMULATION OF HIGH CONCENTRATIONS TO REDUCE OXYGEN LEVELS IN THE AIR TO <18 MOLAR PERCENT.

Protective Gloves: ANY MATERIAL.

Eye Protection: SAFETY GOGGLES/GLASSES

Other Protective Equipment: SAFETY SHOES.

Supplemental Safety and Health: HANDLING CONT'D: DON'T HEAT CYLINDER BY ANY MEANS TO INCREASE THE DISCHARGE RATE OF PRODUCT FROM THE CYLINDER. USE A CHECK VALVE/TRAP IN THE DISCHARGE LINE TO PREVENT HAZARDOUS BACK FLOW INTO THE CYLINDER.

Physical/Chemical Properties

B.P. Text: 70F

M.P./F.P Text: 11.84F

Vapor Pres: 14.8

Spec Gravity: 0.97

Solubility in Water: MISCIBLE

Appearance and Odor: COLORLESS GAS W/SLIGHT ACID ODOR

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: TEMP >125F.

Materials To Avoid: NONE

Hazardous Decomposition Products: NONE

Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

Regulatory Information
Other Information

HAZCOM Label

Product ID: 2-50 PPM NITROGEN DIOXIDE IN NITROGEN
Cage: 42568
Company Name: LIQUID AIR CORP ALPHAGAZ DIVISION
Street: 2121 N CALIFORNIA BLVD
City: WALNUT CREEK CA
Zipcode: 94596
Health Emergency Phone: 415-977-6561
Label Required IND: Y
Date Of Label Review: 10/12/1999
Status Code: A
Origination Code: G
Hazard And Precautions: NITROGEN IS A SIMPLE ASPHYXIANT.

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