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LIQUID AIR CORP

-- NITROGEN

MSDS Safety Information

FSC: 6830

NIIN: 01-106-0895 MSDS Date: 05/07/1997 MSDS Num: CHHRG

Product ID: NITROGEN

MFN: 01

Responsible Party Cage: 18197

Name: LIQUID AIR CORP

Address: 2700 POST OAK BLVD 18TH FLOOR

City: HOUSTON TX 77056

Info Pho

ne Number: 713-868-0440/ FAX 800-231-1366

Emergency Phone Number: 713-868-0440/800-424-9300(CHEMTREC)

Review Ind: Y Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 18197

Name: LIQUID AIR CORP

Address: 2121 N CALIFORNIA BLVD, STE 296

City: WALNUT CREEK CA 94596

Contractor Summary

Cage: 24274

Name: AIR LIQUID AMERICA CORP

Address: 2700 POST OAK DR City: HOUSTON TX 77056-8229

Phone: 716-868-0440

Cage: 18197

Name: LIQUID AIR CORP

Address: 2121 N CALIFORNIA BLVD, STE 296

City: WALNUT CREEK CA 94596

Phone: 415-977-6500

Item Description Information

Item Manager: S9G

Item Name: NITROGEN, TECHNICAL

Unit of Issue: EA UI Container Qty: 0

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Ingredients

Cas: 7727-37-9

RTECS #: QW9700000 Name: NITROGEN % Wt: &qt;99.99

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED ACGIH TLV: ASPHYXIANT; 9596

Name: MAXIMUM IMPURITIES

% Wt: <:0.01

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

Health Haza rds Data

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: NO Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: NITROGEN IS SIMPLE ASPHYXIANT.OXYGEN LEVELS SHOULD BE MINTAINED ABOVE 19.5%.INHAL:HI CONC OF GAS CAN CAUSE OXY-DEFICIENT

ENVIRO.INDIVIDUALS BREATH SUCH ATM MAY EXPERIENCE SYMPT WHICH INCLUDE

HEAD,RING ING IN EARS,DIZZ,DROWS,UNCONSC,NAU,VOMIT,DEPR

ESS OF ALL

SENSES.UNDER SOME CIRCUMST OF OVEREXPO DEATH MAY OCCUR.

Explanation Of Carcinogenicity: PER MSDS:SUSPECTED CANC AGENT:NOT FOUND IN OSHA Z,NTP,CAL/OSHA,IARC;NOT CONSIDERED TO BE NOR SUSPECT TO BE CANC AGENT Signs And Symptions Of Overexposure: ACUTE:MOST SIGNIFICANT HAZ ASSOC W/THIS GAS INHAL OF OXY-DEFICINET ATMS.SYMPT OF OXY DEFICIENCY INCLUDE RESP DIFFICULTY,RINGNING IN EARS,HEAD,SHORTNESS OF

BREATH, WHEEZING, HEAD, DIZZ, INDIGESTION, NAU, @HI GH CONC UNCONSC OR DEATH MAY

OCCU

R.SKINOVEREXPO MAY HAVE BLUE COLOR.CHRONIC:CURRENTLY NO KNOWN ADVERSE HEALTH EFFECTS.

Medical Cond Aggravated By Exposure: PRE-EXISTING RESP CONDITIONS MAY BE AGGRAVATED BY OVER-EXPO TO NITROGEN. TARGET ORGANS:RESPIRATORY SYSTEM. First Aid: RESCUERS SHOULDNT ATTEMPT RETRIEVE VICTIMS OF EXPO TO NITROGEN W/O ADEQU PPE.@MIN SCBA.REMOVE TO FRESH AIR,AS QUICKLY AS POSSIBLE.ONLY TRAINED PERSONNEL SHOULD ADMIN SUPPLEMENTAL OXY & amp;/OR CPR IF NECES SARY.VICTIM MUST BE TAKEN FOR MED ATTN.RESCU

ERS SHOULD BE TAKEN FOR MED ATTN IF

NECESSARY.TAKE COPU OF LABEL & amp; MSDS TO DR/OTHER HEALTH PROF W/VICTIM.RECOMMENDATIONS TO DR:TREAT SYMPT & amp; REDUCE OVEREXPO

Handling and Disposal

Spill Release Procedures: EVACUATE IMMED AREA.UNCONTROLLED RELEASE SHOULD BE REPORT TO TRAIN PERSONNEL USING PRE-PLANN PROCEDURES.PROPER PROT EQPMT SHOULD

BE USED.CLEAR AFFECT AREA, PROTECT PEOP

LE, RESOPND W/TRAN PERSONNEL.MIN P PE

SHOULD BE LEVEL B:SCBA.LOCATE/SEAL LEAK(SUPPLE)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: GAS WILL BE DISSIPATED RAPIDLY IN WELL-VENTI AREA.WASTE DISPO MUST BE IAW APPROPR FED/STATE/LOC REGS.RETURN CYL W/ANY RESIDUAL PROD TO AIR LIQUIDE.DONT DISPO OF LOCALLY.EMERG DISPO-SECURE CYL & DISCHARGE GAS TO ATM IN WELL VENTI AREA/DOUTDOORS

Handling And Storage Precautions: GAS MAY BE SUPPLIED BY PIPELINE @PRESSURE UP

TO 600PSIG.STORE CYL UPRIGHT, FIRMLY SECURE TO PREVENT FALLING/KNOCKOVER.SOTRE IN OPN, PROT AGAINST WEATHER

Other Precautions: & DAMPNESS OF GROUND-PREVENTS RUSTING.STORE IN DRY WELL VENTI AREA AWAY FRM HEAT, IGN, DIRECT SUNLIGHT SOURCES. KEEP STORAGE AREA CLEAR OF MATL WHICH CAN BURN.DONT ALLOW AREA WHERE CYL STORE TO EXCEED 52C /125F.STORE AWAY FRM HEAVILY TRAFF/EMER

Fire and Explosion Hazard Information

Autoignition Temp Text: NA Lower Limits: N/APPLICABLE Upper Limits: N/APPLICABLE

Extinguishing Media: NON-FLAMM, INERT GAS. USE EXTINGUISHING MEDIA APPROPRIATE

FOR SURROUNDING FIRE.

Fire Fighting Procedures: STRUCTURAL FIREFIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE EQPMT.

Unusual Fire/Explosion Hazard: NITROGEN DOESNT BURN; HOWEVER CONTAINERS WHEN INVOLVED IN FIRE MAY RUPTURE OR BURST IN HEAT OF FIRE.

Control Measures

Respiratory Protection: MAINTAIN OXY LEVELS >19.5% IN WORKPLACE.USE SUPPLIED AIR RESP PROT IF OXY LEVELS BEL 19.5% OR DURING EMERG RESPONSE TO RELEASE OF NITROGEN.IF RESP PROT REQUIRED FOLLOW REQMTS OF OSHA 29CFR1910.134 ORE QUIVALENT STATE STDS.

Ventilation: USE W/ADEQ VENTI.LOCAL EXHAU VENTI PREFERRED-PREVENTS CHEMICAL DISPERSION INTO WORKPLACE BY ELIMINATING IT @SOURCE.

Pr

otective Gloves: WHEN HNDL CYL; APPROP PROT FOR OPERATION

Eve Protection: SAFETY GLASSES

Other Protective Equipment: IF APPROP INSTALL AUTO MONITORING EQPMT TO DETECT OXY LEVEL.USE BODY PROT APPROPR FOR TASK.SAF SHOES WHEN HNDLG CYL. Work Hygienic Practices: BE AWARE OF ANY SIGNS OF DIZZ/FTG,EXPO TO FATAL CONC OF N2 CULD OCCUR W/O ANY SIGNIF WARNING SYMPT DUE TO OXY DEF.

Supplemental Safety and Health: SPILL:SOURCE.ALLOW GAS(LIGHTER THAN AIR)TO DISSIPATE.MONITOR SURROUNDING AREA FOR OXY.ATM

MUST HAVE @LEAST 19.5%OXY BEF

PERSONNEL CAN BE ALLOWED IN AREA W/O SCBA.LEAK INCIDENTALLY FRM CYL/VALVE CONTAC T YOUR SUPPLIER. OTH PRECA:PROTECT AGAINST PHYS DMG.USE CHECK VALVE/PORT DEVICE IN DISCHARGE LINE-PREVENT BACKFLOW.

Physical/Chemical Properties

HCC: G3

B.P. Text: -320F,-196C M.P/F.P Text: -346F,-210C Vapor Pres: N/APPLICAB Vapor Density: 1.153KG/M3

Spec Gravity: 0.90

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PH: NA

Solubility in Water: 0.023, NEGLIGIBLE

Appearance and Odor: COLORLESS ODORLESS GAS; NO UNUSUAL WARNING PROPERTIES ASSOC

W/RELEASE OF NITROGE

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: CONTACT W/INCOMPATIBLE MATLS.CYLINDERS EXPOSED TO

HIGH TEMPS ORDIRECT FLAME CAN RUPTURE OR BURST.

Materials To Avoid: TITANIUM IS ONLY ELEMENT THAT WILL BURN IN NI

TROGEN.LITHIUM REACTS SLOWLY W/NITROGEN AT AMBIENT TEMPS. Hazardous Decomposition Products: NONE Hazardous Polymerization Indicator: NO _____ **Toxicological Information** _____ _____ Ecological Information ______ ______ **MSDS** Transport Information === ______ _____ Regulatory Information _____ _____ Other Information _____ -----Transportation Information _____ Responsible Party Cage: 18197 Trans ID N O: 107880 Product ID: NITROGEN MSDS Prepared Date: 05/07/1997 Review Date: 09/01/1998 MFN: 1 Net Unit Weight: 494 FT3 Multiple KIT Number: 0 Review IND: Y

Review IND: Y Unit Of Issue: EA Container QTY: 0

Additional Data: PER MSDS:DOT PROPER SHIPPING

NAME:NITROGEN,COMPRESSED,2.2(NON-FLAMM GAS),UN 1066,PKG NA,NON-FLAMM GA S LABEL.NOR AMER EMERG RESPO GUIDEBK#121.NOT MARINE POLLUTANT.CYL SHOLD BE

TRANSPO IN SECURE POSITION IN WELL VENTI VEHICLE.

Detai

I DOT Information

DOT PSN Code: KLZ

DOT Proper Shipping Name: NITROGEN, COMPRESSED

Hazard Class: 2.2 UN ID Num: UN1066

Label: NONFLAMMABLE GAS Packaging Exception: 306

Non Bulk Pack: 302
Bulk Pack: 314,315
Max Qty Pass: 75 KG
Max Qty Cargo: 150 KG

Detail IMO Information

Vessel Stow Reg: A

IMO PSN Code: KSR IMO Proper Shipping Na

me: NITROGEN, COMPRESSED

IMDG Page Number: 2163

UN Number: 1066

UN Hazard Class: 2(2.2) IMO Packaging Group: -Subsidiary Risk Label: -EMS Number: 2-04

MED First Aid Guide NUM: NON

Detail IATA Information

IATA PSN Code: SBP IATA UN ID Num: 1066

IATA Proper Shipping Name: NITROGEN, COMPRESSED

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

Detail AFI Information

AFI PSN Code: SBP

AFI Proper Shipping Name: NITROGEN, COMPRESSED

AFI Hazard Class: 2.2 AFI UN ID NUM: UN1066 Special Provisions: P5

Back Pack Reference: A6.3, A6.6

HAZCOM Label

Product ID: NITROGEN

Cage: 18197

Company Name: LIQUID AIR CORP

Street: 2121 N CALIFORNIA BLVD, STE 296

City: WALNUT CREEK CA

Zipcode: 94596

Health Emergency Phone: 713-868-0440/800-424-9300(CHEMTREC)

Label Required IND: Y

Date Of Label Review: 06/23/1998

Status Code: C

Label Date: 06/23/1998
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 Precaut

ions: MAIN HELATH HAZ ASSOC W/RELEASES OF NITROGEN IS

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