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LIQUID AIR CORP -- LIQUID ARGON -- 6830-01-103-9103

Product ID:LIQUID ARGON MSDS Date:10/01/1985

FSC:6830

NIIN:01-103-9103

MSDS Number: BZLKC === Responsible Party ===

Company Name:LIQUID AIR CORP Address:2121 N CALIFORNIA BLVD

City:WALNUT CREEK

State:CA ZIP:94596 Country:US

Info Phone Num:415-977-6500

Emergency Phone Num:800-231-1366;800-424-9300(CHEMTREC)

CAGE: 18260

=== Contractor Identification ===

Company Name: LIQUID AIR CORP ONE CALIFORNIA PLAZA

Address:2121 N. CALIFORNIA BLVD

Box:City:WALNUT CREEK

State:CA ZIP:94596 Country:US

Phone:415-977-6500

CAGE:18260

======= Composition/Information on Ingredients ========

Ingred Name: ARGON

CAS:7440-37-1

RTECS #:CF2300000

OSHA PEL:N/K

ACGIH TLV:ASPHYXIANT

Ingred Name:SUPDAT:AIR NEC TO SUPPORT LIFE. FROSTBITE EFTS ARE CHANGE IN COLOR OF SKIN TO GRAY/WHITE POSS FOLLOWED BY (ING 3) RTECS #

Ingred Name:ING 2:BLISTERING. NOTE:EXCEPT WHERE SPECIFIED, HLTH HAZ DATA & MOST OF OTHER DATA IN THIS MSDS ARE FOR GASEOUS (ING 4) RTECS #:9999999ZZ

Ingred Name:ING 3:ARGON. ONE VOL OF LIQ ARGON AT ITS BOILING POINT & ATM PRESS WILL VAPORIZE INTO APPROX 840 VOLS OF GASEOUS (ING 5) RTECS #:9999999ZZ

Ingred Name: ING 4: ARGON AT 70F (21.1C) & 1 ATMOSPHERE. RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC:MOVED TO UNCONTAM AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION & SUPP OXYG. M ED ASSISTANCE SHOULD BE (ING 7) RTECS #:9999997ZZ

Ingred Name:ING 6:SOUGHT IMMED. SKIN:FLUSH AFFECTED AREAS W/LUKEWARM WATER. DO NOT USE HOT WATER. MD SHOULD SEE PATIENT (ING 8) RTECS #:9999992Z

Ingred Name:ING 7:PROMPTLY IF CRYOGENIC "BURN" HAS RESULTED IN BLISTERING OF DERMAL SURF/DEEP TISSUE FREEZING. RTECS #:9999999ZZ

Ingred Name:OTHER PREC:BE REFILLED EXCEPT BY QUALIFIED PRDCRS OF THESE PRODS. SHIPMENT OF COMPRESSED GAS CNTNR WHICH HAS NOT(ING 10) RTECS #:9999999ZZ

Ingred N

ame:ING 9:BEEN FILLED BY OWNER/WITH HIS (WRITTEN) CONSENT IS VIOLATION OF FED LAW (49CFR). LIQ ARGON IS DELIVERED TO(ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:CUSTOMER INTO STATIONARY VACUUM-JACKETED VESSELS AT CUSTOMER'S LOCATION/IN PORTABLE VACUUM-JACKETED "LIQ"(ING 12) RTECS #:9999992Z

Ingred Name:ING 11:CYLS. STATIONARY CUSTOMER-SITE VESSELS SHOULD BE OPERATED I/A/W MFR'S & LIQ AIR CORP'S INSTRUCTIONS. DO (ING 13) RTECS #:9999999ZZ

Ingred Name: ING 12: NOT ATTEMPT TO REPAIR,

ADJUST/IN ANY OTHER WAY
MODIFY OPERATION OF THESE VESSELS. IF THERE IS MALFUNCTION(ING 14)
RTECS #:9999992Z

Ingred Name:ING 13:OR OTHER TYPE OF OPERATIONAL PROB W/VESSEL, CONT CLOSEST LIQ AIR CORP LOCATION IMMED. LIQ ARGON CYLS (ING 15) RTECS #:9999992Z

Ingred Name:ING 14:SHOULD BE USED ONLY IN WELL-VENTILATED AREAS & I/A/W MFR'S & LIQ AIR CORP'S INSTRUCTIONS. THESE CYLS MUST(ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15:ALWAYS BE KEPT IN UPRIGHT POSITION. SPECIALIZED HAND

RUCKS ARE NEEDED FOR THEIR MOVEMENT. "FIRST IN- (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:FIRST OUT" INVENTORY SYS SHOULD BE USED W/THESE CYLS. FOR ADDNL HNDLG/STOR RECS CONSULT COMPRESSED GAS (ING 18) RTECS #:9999999ZZ

Ingred Name:ING 16:ASSOC PAMPHLET P-1. ALSO SEE CGA SFTY BULLETIN SB-2 (OXYG DEFICIENT ATMS) & CGA PAMPHLETS P-9 (INERT (ING 19) RTECS #:9999999ZZ

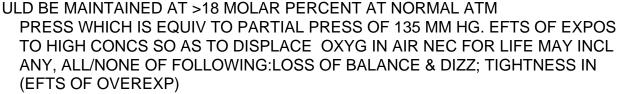
Ingred Name:ING 18:GASES - ARGON, NITROGEN & HELIUM), P-12 (SAFE HNDLG OF CRYOGENIC LIQS) & P-14 (ACCIDENT PREVENT ION IN (ING 20)
RTECS #:9999999ZZ

Ingred Name:ING 19:OXYGEN-RICH & OXYGEN-DEFICIENT ATMOSPHERES). RTECS #:9999992Z

Ingred Name:EYE PROT:& FULL LENGTH FACESHIELD . RTECS #:9999992Z

========= Hazards Identification =============

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ARGON IS DEFINED AS SIMPLE ASPHY. OXYG LEVELS SHO



Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure:HLTH HAZ:FRONTAL AREA OF FOREHEAD; TINGLING OF TONGUE, FINGERTIPS/TOES; WEAKENED SPEECH LEADING TO INABILITY TO UTTER SOUNDS; RAPID REDUCTIO

N IN ABILITY TO PERFORM MOVEMENTS;

REDUCE CONSCIOUSNESS OF S URROUNDS; LOSS OF TACTILE SENSATIONS; HEIGHTENED MENTAL ACTIVITY. IT SHOULD BE RECOGNIZED THAT IS IS POSS THAT (SUPDAT)

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid:PROMPT MED ATTN IS MANDATORY IN ALL CASES OF OVEREXP TO ARGON. RESCUE PERS SHOULD BE EQUIPPED W/NIOSH/MSHA APPRVD SCBA. INGEST:CALL MD IMMED . EYES:IM

MED FLUSH W/POTABLE WATER FOR MIN OF

15 MINS, SEEK ASSISTANCE FROM MD. INHAL: CONSCIOUS PERS SHOULD BE ASSISTED TO UNCONTAM AREA & INHALE FRESH AIR. QUICK REMOVAL FROM CONTAM AREA IS MOST IMPORTANT. UNCONSCIOUS PERS SHOULD BE (ING 6)

========== Fire Fighting Measures ================

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE . NONFLAMMABLE, INERT.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT.

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===== Accidental Release Measures =========

Spill Release Procedures: NONE SPECIFIED BY MANUFACTURER. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

========== Handling and Storage ===============

Handling and Storage Precautions: DO NOT STORE CYLS IN SUB-SURF/CLSD AREAS. ARGON IS HVR/AIR & LEAKING GAS COULD ACCUM IN LOW AREAS & CAUSE SUFFOCATION W/OUT WARNING.

Other Precautions:LIQ ARGON CANNOT BE HNDLD IN CARBON/LOW ALLOY STEELS. 18-8 & 18-10

STAINLESS STEELS ARE ACCEPT AS ARE COPPER & ITS ALLOYS, NICKEL & ITS ALLOYS, BRASS, BRONZE, SILICON ALLOYS, MONEL, INCONEL & BERYLLIU M. LIQUEFIED GAS CYLS SHOULD NOT (ING 9)

====== Exposure Controls/Personal Protection ========

Respiratory Protection:NIOSH/MSHA APPROVED POSITIVE PRESSURE AIR LINE W/MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:LOCAL EXHAUST:TO PREVENT ACCUM OF HIGH CONCS SO AS TO REDUCE OXYGEN L

EVEL IN AIR TO 188.12F

Solubility in Water: 0.034 @ 20C

Appearance and Odor:CLEAR, SLIGHTLY TINTED LIQUID; ODORLESS.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

NONE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: NONE.

======= Disposal Considerations ==========

Waste Disposal Methods:DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS.

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