

LIQUID AIR CORPORATION -- ACETYLENE -- 6830-00-270-8216

===== Product Identification =====

Product ID:ACETYLENE

MSDS Date:10/01/1985

FSC:6830

NIIN:00-270-8216

MSDS Number: BHDFZ

=== Responsible Party ===

Company Name:LIQUID AIR CORPORATION

Address:2121 N. CALIFORNIA BLVD., SUITE 350

City:WALNUT CREEK

State:CA

ZIP:94596

Country:US

Info Phone Num:415-977-6500

Emergency Phone Num:800-434-9300 OR NIG

HT 800-231-1366

CAGE:DO426

=== Contractor Identification ===

Company Name:INTERSTATE WELDING SALES CORP.

CAGE:14135

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

Company Name:LIQUID AIR CORPORATION

Address:2121 N. CALIFORNIA BLVD., SUITE 350

City:WALNUT CREEK

State:CA

ZIP:94596

Phone:510-977-6500

CAGE:DO426

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

Ingred Name:ACETYLENE

CAS:74-86-2

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:REPEATED EXPOSURES TO TOLERABLE LEVELS HAS NOT SHOWN DELETERIOUS EFFECTS. THE MAJOR PROPERTY IS THE EXCLUSION OF AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS

Explanation of Carcinogenicity:ACETYLENE IS DEFINED AS A SIMPLE ASPHYXIANT.

Effe

cts of Overexposure:INHALATION: LOW CONCENTRATION (10-20% IN AIR)

CAUSE SYMPTOMS SIMILAR TO THAT OF BEING INTOXICATED. HIGHER

CONCENTRATIONS SO AS TO EXCLUDE AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS CAUSE UNCONSCIOUSNES S.

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===== First Aid Measures =====

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE.RESCUE PERSONNEL SHOULD BE EQUIPPED W/SELFCONTAINED BREATHING APPARATUS & BE COGNIZANT OF EXTRE

ME

FIRE & EXPLOSION HA ZARD. INHALATION: CONSCIOUS PERSONSSHOULD BE ASSISTED TO AN UNCONTAMINATED AREA & INHALE FRESH AIR. QUICK REMOVAL FROM CONTAMINATED AREA IS MOST IMPORTANT.UNCONSCIOUS PERSONS GIVE RESUSCITATION.

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

Flash Point:GAS

Autoignition Temp:Autoignition Temp Text:\*\*\*\*

Lower Limits:80-85

Upper Limits:2.2

Extinguishing Media:CARBON DIOXIDE; DRY CHEMICAL

Fire Fighting Procedures:IF POSSIBLE STOP FLOW OF ESCAPING GAS. USE

WATER SPRAY TO COOL SURROUNDING CONTAINERS. KEEP PERSONNEL AWAY SINCE HEATED/BURNING CYLINDERS CAN RUPTURE.

Unusual Fire/Explosion Hazard:IT REQUIRES A VERY LOW IGNITION ENERGY SO THAT FIRES WHICH HAVE BEEN EXTINGUISH W/O STOPPING FLOW OF GAS CAN EASILY REIGNITE W/POSSIBLE EXPLOSIVE FORCE.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE

EQUIP. IF LEAK IS IN USER'S EQUIP., BE CERTAIN TO PURGE PIPING W/INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR CONTAINER VALVE CONTACT CLOSEST LIQUID AIR CORP.

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

Handling and Storage Precautions: USE SUITABLE HANDTRUCK FOR CYLINDER MOVEMENT. STORE IN COOL, DRY, WELL VENTILATED AREA OF NONCOMBUSTIBLE CONSTRUCTION AWAY FROM HEAVY TRAFFICKED AREAS.  
Other Precautions: FULL & EMPTY CYLINDERS SHOULD BE SEGREGATED.  
CYLINDERS MUST BE STORED IN UPRIGHT & FIRMLY SECURED TO PREVENT FALLING/KNOCKED OVER. EARTH-GROUND & BOND ALL LINES & EQUIPMENT ASSOCIATED W/ACETYLENE SYSTEM.

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

Respiratory Protection: POSITIVE PRESSURE AIR LINE W/MASK OR SELFCONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.  
Ventilation: HODD W/FORCED VENTILATION. LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE THE LEL.  
Protective Gloves: PVC OR RUBBER  
Eye Protection: SAFETY GLASSES OR GOGGLES  
Other Protective Equipment: SAFETY SHOES, SAFETY SHOWERS  
Supplemental Safety and Health  
NK

==== Physical/Chemical Properties =====

Boiling Pt: B.P. Text: -118.8F  
Vapor Pres: 645 PSIA  
Vapor Density: .0691  
Solubility in Water: COEFFICIENT = 1.047  
Appearance and Odor: PURE ACETYLENE: COLORLESS GAS W/ETHEREAL ODOR.  
COMMERCIAL: GARLIC LIKE ODOR  
Percent Volatiles by Volume: 30 PSIA

==== Sta

bility and Reactivity Data =====

Stability Indicator/Materials to Avoid:NO

OXYGEN/ODIDIZERS INCLUDING ALL OF THE HALOGENS/COMPOUNDS.

COPPER,MERCURY,SILVER,BRASSES/BRAZING CONTNING 66% COPR/SLVR

Stability Condition to Avoid:DONOT ALLOW FREE GAS (OUTSIDE OF CYLINDER)

TO EXCEED 30PSIA.CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN

SHOCK/SOURCES HEAT

Hazardous Decomposition Products:CARBON AND HYDROGEN

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

Waste

Disposal Methods:DONOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QTY.

RETURN IN SHIPPING CONTAINER PROPERLY LABELED, W/VALVE OUTLET

PLUGS OR CAPS SECURED & VALVE PROTECTION CAP IN PLACE TO

LIQUID AIR CORPORATION FOR PROPER DISPOSAL

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