

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 NIGH
T 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 =====

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ingred Name:ACETYLENE
CAS:74-86-2

===== 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
ASPHYXIAN.
Effec
ts 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.

===== 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 EXTREM
E
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.

===== 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 O
F 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.

===== 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
SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR
EMERGENCY USE.

Ventilation: HODD W/FORCED VENTILATION. LOCAL EXHAUST TO PREVENT
ACCUMULATION ABOVE THE LEL.

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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

===== Stab

ility 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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