



## **ACETYLENE**

### **MSDS Number**

BHDJF

### **National Stock Number**

6830-00-290-4370

### **Product Name**

ACETYLENE

### **Manufacturer**

LIQUID AIR CORP

### **Product Identification**

Product ID:ACETYLENE  
MSDS Date:10/01/1985  
FSC:6830  
NIIN:00-290-4370  
MSDS Number: BHDJF

### **Responsible Party**

LIQUID AIR CORPORATION  
2121 N. CALIFORNIA BLVD., SUITE 350  
WALNUT CREEK , CA 94596  
US  
Emergency Phone: 800-434-9300 OR NIGHT 800-231-1366  
Info Phone: 415-977-6500  
Cage: DO426

### **Contractor**

WELCO GASES CORP.  
WALNUT CREEK, CA 94596  
US  
510-977-6500  
Cage: OC525

### **Ingredients**

ACETYLENE  
CAS: 74-86-2

### **Hazards**

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Effects of Overexposure:INHALATION: LOW CONCENTRATIONS CAUSE SYMPTOMS  
SIMILAR TO THAT OF BEING INTOXICATED. HIGHER  
CONCENTRATIONS SO AS TO EXCLUDE AN ADEQUATE SUPPLY OF OXYGENTO THE  
LUNGS CAUSE UNCONSCIOUSNESS.

### **First Aid**

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY. INHALATION:  
MOVE/ASSIST PERSON TO UNCON- TAMINATED AREA AND BREATHE FRESH AIR.  
IF NOT BREATHING GIVE CPR AND SUPPLEMENTAL OXYGEN. MEDICAL  
ASSISTANCE SHOULD BE SOUGHT IMMEDIATELY.

### **Fire Fighting**

Flash Point:GAS



Autoignition Temp:Autoignition Temp Text:\*BELOW  
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 PEOPLE AWAY SINCE HEATED/BURNING CYLINDERS CAN RUPTURE VIOLENTLY  
Unusual Fire/Explosion Hazard:GASEOUS ACETYLENE REQUIRES LOW IGNITION ENERGY SO EXTINGUISHED FIRES W/O STOPPED GAS FLOW CAN EASILY REIGNITE WITH POSSIBLE EXPLOSIVE FORCE. DOES NOT DISSIPATE.

## Accidental Release

Spill Release Procedures:EVACUATE AREA. USE APPROPRIATE PROTECTIVE EQUIP. IF LEAK IS IN USER'S EQUIP, BE CERTAIN TO PURGE PIPING WITH INERT GAS PRIOR TO ATTEMPTING REPAIRS.IF LEAK IS IN CONTAINER OR CONTAINER VALVE,CONTACT CLOSEST LIQUID AIR CORPORATION LOCATION.

## Handling

Handling and Storage Precautions:USE/STORE IN COOL, DRY, WELL-VENTILATED AREA.STORE FIRMLY SECURED & UPRIGHT. SEGREGATE FULL/EMPTY CYLINDERS FROM SOURCES OF HEAT AND IGNITION.  
Other Precautions:EARTH-GROUND AND BOND ALL LINES AND EQUIPMENT ASSOCIATED WITH THE ACETYLENE SYS.COMPRESSED GAS CYLINDERS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES. ELECTRICAL EQUIPMENT SHOULD BE NON-SPARKING OR EXPLOSION PROOF

## Exposure Controls

Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.  
Ventilation:HOOD WITH FORCED VENTILATION. LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE THE LEL  
Protective Gloves:PVC OR RUBBER IN LABORATORY.  
Eye Protection:SAFETY GOGGLES OR GLASSES  
Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER  
Supplemental Safety and Health  
NK

## Chemical Properties

Boiling Pt:B.P. Text:-118F/-83C  
Vapor Pres:\*SEE BELOW  
Vapor Density:\*SEE BELOW  
Spec Gravity:(AIR=1)=.91@70F  
Solubility in Water:\*SEE BELOW  
Appearance and Odor:PURE IS COLORLESS GAS WITH AN ETHEREAL ODOR. COMMERCIAL HAS GARLIC-LIKE ODOR.

## Stability

Stability Indicator/Materials to Avoid:NO OXY & OTHER OXIDIZERS INCLUDING ALL HALOGENS & ITS COMPOUNDS FORMS EXPLOSIVE COMPOUNDS W/COPPER,MERCURY,SILVER,& BRASSES.  
Stability Condition to Avoid:DO NOT ALLOW FREE GAS TO EXCEED 30 PSIA. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK OR SOURCES OF HEAT.  
Hazardous Decomposition Products:CARBON & HYDROGEN  
\*VAP PRES: 645 PSIA (4450 KPA) @70F/21C

## Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO LIQ. AIR. FOR EMERGENCY DISPOSAL CONTACT LIQ AIR CORP.

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