

## **ACETYLENE**

### **MSDS Number**

BHDGB

### **National Stock Number**

6830-00-270-8216

### **Product Name**

ACETYLENE

### **Manufacturer**

NATIONAL WELDERS

### **Product Identification**

Product ID:ACETYLENE  
MSDS Date:11/20/1988  
FSC:6830  
NIIN:00-270-8216  
MSDS Number: BHDGB

### **Responsible Party**

NATIONAL WELDERS

NA

CHARLOTTE , NC 28231

US

Emergency Phone: 704-333-5475

Info Phone: 704-333-5475

Cage: 18264

### **Contractor**

NATIONAL WELDERS SUPPLY CO INC

31007

CHARLOTTE, NC 28231

US

704-333-5475

Cage: 18264

### **Ingredients**

ACETYLENE

CAS: 74-86-2

### **Hazards**

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:AS A NARCOTIC GAS OR INTOXICANT CAUSES HYPERCAPNIA. 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.  
Effects of Overexposure:INHALATION: LOW CONCENTRATIONS (10-20% IN AIR) CAUSE SYMPTOMS SIMILAR TO THAT OFBEING INTOXICATED. HIGHER CONCENTRATIONS SO AS TO EXCLUDE AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS CAUSE UNCONSCIOUSNESS.

### **First Aid**

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE.RESCUE PERSONNEL SHOULD BE EQUIPPED W/SELFCONTAINED BREATHING APPARATUS.INHL:QUICK REMOVAL TO FRESH AIR

& FROM CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSON SHOULD BE GIVEN MOUTH TO MOUTH RESUSCITATION & SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

## Fire Fighting

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: STOP FLOW OF ESCAPING GAS IF POSSIBLE. USE WATER SPRAY TO COOL SURROUNDING CONTAINERS. KEEP PERSONNEL AWAY SINCE HEATED OR BURNING CYLINDERS CAN RUPTURE.  
Unusual Fire/Explosion Hazard: REQUIRES A VERY LOW IGNITION ENERGY SO THAT FIRES WHICH HAVE BEEN EXTINGUISHED W/O STOPPING FLOW OF GAS CAN EASILY REIGNITE W/POSSIBLE EXPLOSIVE FORCE.

## Accidental Release

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 VALVE, CONTACT CLOSEST SUPPLIER LOCATION.

## Handling

Handling and Storage Precautions: USE SUITABLE HAND TRUCK FOR CYLINDER MOVEMENT. STORE IN COOL, DRY AREA AWAY FROM HEAVY TRAFFICKED AREAS. DO NOT ALLOW TEMPERATURE TO EXCEED 130F.  
Other Precautions: EARTH GROUND & BOND ALL LINES & EQUIP W/ACETYLENE SYSTEM. FULL & EMPTY CYLINDER SHOULD BE SEGREGATED. CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED TO PREVENT FALLING. THERE SHOULD BE NO SOURCE OF IGNITION IN STORAGE OR USE AREA.

## Exposure Controls

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

## Chemical Properties

Boiling Pt: B.P. Text: -118.8F  
Vapor Pres: 645 PSIA  
Vapor Density: .0691  
Spec Gravity: 0.906  
Evaporation Rate & Reference: NA  
Solubility in Water: SOLUBLE  
Appearance and Odor: PURE ACETYLENE: COLORLESS W/ETHEREAL ODOR. COMMRL ACETYLENE: GARLIC LIKE ODOR  
Percent Volatiles by Volume: 30 PSI

## Stability

Stability Indicator/Materials to Avoid: NO OXYGEN/OXIDIZERS INCLUDING HALOGENS/COMPOUNDS. COMPOUNDS W/ COPPER, MERCURY, SILVER, BRASSES/BRAZING: CONTNG 66% COPPER, SILVER  
Stability Condition to Avoid: DO NOT ALLOW THE FREE GAS (OUTSIDE OF CYLINDER) TO EXCEED 30 PSI. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK/HEAT  
Hazardous Decomposition Products: CARBON AND HYDROGEN

## Disposal

Waste Disposal Methods: DONOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QTY. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED W/VALVE OUTLET

PLUGS/CAPS SECURED & VALVE PROTCTN PROTECTION CAP IN PLACE TO YOUR  
LOCAL SUPPLIER.

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