

## **ACETYLENE ETHYNE**

### **MSDS Number**

BHDFK

### **National Stock Number**

6830-00-264-6751

### **Product Name**

ACETYLENE ETHYNE

### **Manufacturer**

NATIONAL WELDERS SUPPLY CO INC

### **Product Identification**

Product ID:ACETYLENE ETHYNE

MSDS Date:01/01/1991

FSC:6830

NIIN:00-264-6751

MSDS Number: BHDFK

### **Responsible Party**

NATIONAL WELDERS SUPPLY CO INC

810 GESCO

CHARLOTTE , NC 28231

US

Emergency Phone: 800-866-4422/800-424-9300(CHEMTREC)

Info Phone: 704-333-5475(X308)/FAX 344-1711

Preparer: NONE

Cage: 18264

### **Contractor**

NATIONAL WELDERS SUPPLY CO, INC

NORFOLK, VA 23508

US

804-627-5673

Cage: 0SSR7

### **Ingredients**

ACETYLENE

CAS: 74-86-2

RTECS: AO9600000

Fraction By Weight: 100%

ACGIH TLV: ASPHYXIAN; 9394

### **Hazards**

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ACETYLENE IS DEFINED AS A SIMPLE ASPHYXIAN. OXYGEN LEVELS SHOULD BE MAINTAINED AT GREATER THAN 18 MOLAR PERCENT AT NORMAL ATMOSPHERIC PRESSURE WHICH IS EQUIVALENT TO A PARTIAL PRESSURE OF 135 MM HG.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: LOW CONCENTRATIONS (10-20% IN AIR)

CAUSE SYMPTOMS SIMILAR TO THAT OF BEING INTOXICATED. HIGHER CONCENTRATIONS THAT EXCLUDES AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS CAUSES UNCONSCIOUSNESS .

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS INHALATION: QUICK REMOVAL TO FRESH AIR IS MOST IMPORTANT. UNCONSCIOUS PERSON SHOULD BE GIVEN MOUTH TO MOUTH RESUSCITATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

## Fire Fighting

Flash Point:FLAMMABLE GAS

Autoignition Temp:Autoignition Temp Text:565F

Lower Limits:2.2

Upper Limits:80-85

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:IF POSSIBLE, STOP FLOW OF ESCAPING GAS. USE WATER SPRAY TO COOL SURROUNDING CONTAINERS. HEATED OR BURNING CYLINDERS CAN RUPTURE VIOLENTLY.

Unusual Fire/Explosion Hazard:ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN AIR AT PRESSURES ABOVE 30 PSIA. DENSITY OF ACETYLENE IS VERY SIMILAR TO AIR,WHEN LEAKING IT DOES NOT READILY DISSIPATE.

## Accidental Release

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. IF LEAK IS IN USER'S EQUIPMENT, PURGE PIPING WITH INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT YOUR CLOSEST SUPPLIER OR CALL LISTED EMERGENCY TELEPHONE NUMBER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS AND EXITS.KEEP AREA TEMPERATURES BELOW 130F.SEGREGATE FULL AND EMPTY UNITS.

Other Precautions:STORE CYLINDERS UPRIGHT AND FIRMLY SECURED TO PREVENT FALLING. MOVE CYLINDERS WITH SUITABLE HAND TRUCK. NO SOURCE OF IGNITION IN STORAGE OR USE AREAS. KEEP PROTECTION CAPS IN PLACE UNLESS CONTAINER IS SECURED AND PIPED TO USE POINT.

## 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 RECOMMENDED. PROVIDE ADEQUATE LOCAL EXHAUST AND MECHANICAL TO PREVENT BUILDUP ABOVE LEL.

Protective Gloves:PVC OR RUBBER IN LABORATORY.

Eye Protection:SAFETY GOGGLES/GLASSES.

Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EARTH-GROUND AND BOND LINES AND EQUIPMENT USED IN ACETYLENE SYSTEM. ELECTRICAL EQUIPMENT SHOULD BE NON-SPARKING OR EXPLOSION PROOF. COMPRESSED GAS CYLINDERS SHOULD BE REFILLED BY QUALIFIED PRODUCERS OF COMPRESSED GASES. USE "FIRST-IN FIRST-OUT" INVENTORY SYSTEM. POST "NO SMOKING OR OPEN FLAMES" IN STORAGE AND USE AREA.

## Chemical Properties

HCC:G2

Boiling Pt:B.P. Text:SUBLI=-119F

Melt/Freeze Pt:M.P/F.P Text:-113F,-81C

Vapor Pres:645 PSIA

Vapor Density:0.906

Spec Gravity:0.62

Evaporation Rate & Reference:NA  
Solubility in Water:SOLUBLE  
Appearance and Odor:PURE: COLORLESS GAS. ETHEREAL ODOR. COMMERCIAL:  
COLORLESS GAS. GARLIC-LIKE ODOR  
Percent Volatiles by Volume:100

## Stability

Stability Indicator/Materials to Avoid:NO  
OXYGEN, OXIDIZERS, HALOGENS, HALOGEN COMPOUNDS. FORMS EXLOSIVE WITH  
COPPER, MERCURY, SILVER, BRASSES, BRAZING MATERIALS.  
Stability Condition to Avoid:DO NOT ALLOW FREE GAS (OUTSIDE OF  
CYLINDER) TO EXCEED 30 PSIA.DO NOT EXPOSE CYLINDERS TO SUDDEN SHOCK  
OR SOURCES OF HEAT  
Hazardous Decomposition Products:CARBON AND HYDROGEN.

## Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED  
PRODUCT. RETURN IN SHIPPING CONTAINER PROPERLY LABELED, WITH VALVE  
OUTLET PLUGS/CAPS SECURED AND VALVE PROTECTION CAP IN PLACE, TO  
YOUR SUPPLIER. FOR EMERG ENCY DISPOSAL ASSISTANCE CONTACT LOCAL  
SUPPLIER.

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