

NATIONAL WELDERS SUPPLY CO INC -- ACETYLENE ETHYNE -- 6830-00-264-6751

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Product Identification
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Product ID:ACETYLENE ETHYNE

MSDS Date:01/01/1991

FSC:6830

NIIN:00-264-6751

MSDS Number: BHDFK

=== Responsible Party ===

Company Name:NATIONAL WELDERS SUPPLY CO INC

Address:810 GESCO

Box:31007

City:CHARLOTTE

State:NC

ZIP:28231

Country:US

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

Emergency

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

Preparer's Name:NONE

CAGE:18264

=== Contractor Identification ===

Company Name:NATIONAL WELDERS SUPPLY CO INC

Address:810 GESCO ST

Box:31007

City:CHARLOTTE

State:NC

ZIP:28231

Country:US

Phone:704-333-5475

CAGE:18264

Company Name:NATIONAL WELDERS SUPPLY CO, INC

Address:2330 BOWDENS FERRY ROAD

Box:City:NORFOLK

State:VA

ZIP:23508

Country:US

Phone:804-627-5673

CAGE:0SSR7

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Composition/Information on Ingredients
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Ingred Name:

ACETYLENE
CAS:74-86-2
RTECS #:AO9600000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:ASPHYXIAN; 9394

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

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 Measures =====
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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 Measures =====

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.

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

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 and Storage =====

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/Personal Protection =====

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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.

===== Physical/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 and Reactivity Data =====

Stability Indicator/Materials to Avoid:NO

OXYGEN, OXIDIZERS, HALOGENS, HALOGEN COMPOUNDS. FORMS EXLOSIVE WITH
COPPER, MERCURY, SILVER, BRASSES, BRAZING MATERIALS.

Stabi

lity 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 Considerations =====

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 SUPPLIE

R. FOR EMERG ENCY DISPOSAL ASSISTANCE CONTACT LOCAL
SUPPLIER.

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