

NATIONAL WELDERS SUPPLY CO INC -- ACETYLENE -- 6830-00-292-0137

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Product Identification
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Product ID:ACETYLENE
MSDS Date:07/01/1994
FSC:6830
NIIN:00-292-0137
MSDS Number: BHDKB
=== 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
Emergency Phone Num:704-333-5475
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
Other REC Limits:NONE GIVEN
ACGIH TLV:ASPHYXIAN; 9495

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Hazards Identification
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: ACETYLENE IS DEFINED AS A
SIMPLE ASPHYXIAN. OXYGEN LEVELS SHOULD BE MAINTAINED AT GREATER
THAN 18 MOLAR PERCENT AT NORMAL ATMOSPHERIC PRESSURE. CHRONIC:
REPEATED EXPSOURES HAVE NOT SHOWN DELET ERIOUS EFFECTS.
Explanation of Carcinogenicity:NOT CONSIDERED TO BE A CARCINOGEN BY
NTP, IARC, OR OSHA.

Effects of Overexposure:INHALATION:SYMPTOMS SIMILAR TO THAT OF BEING INTOXICATED. AT HIGHER CONCENTRATIONS, MAY EXCLUDE AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS CAUSING UNCONSCIOUSNESS.

Medical Cond Aggravated by Exposure:PERSONS IN ILL HEALTH WHERE SUCH ILLNESS WOULD BE AGGRAVATED BY EXPOSURE TO ACETYLENE SHOULD NOT BE ALLOWED TO WORK WITH OR HANDLE THIS PRODUCT.

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===== First Aid Measures =====

First Aid:PROMPT MEDICAL ATTENTION IS MANDANTORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND BE COGNIZANT OF EXTREME FIRE AND EXPLO SION HAZARD.

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===== Fire Fighting Measures =====

Flash Point: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. KEEP PERSONNEL FROM AREA SINCE HEATED CYLINDERS MAY RUPTURE VIOLENTLY.

Unusual Fire/Explosion Hazard:GASEOUS ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN AIR AT PRESSURES ABOVE 30 PSIA. IT REQUIRES A VERY LOW IGNITION ENERGY SO THAT FIRES CAN REIGNITE VIOLENTLY.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN USER'S EQUIPMENT, BE CERTAIN TO PURGE PIPING WITH AN INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CONTAINER OR VALVE, CONTACT SUPPLIER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:USE ONLY IN WELL-VENTILATED AREAS. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A HAND TRUCK TO MOVE CYLINDERS.DO NOT USE HEAT TO INCREASE DISCHARGE RATE

Other Precautions:VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. DO NOT ALLOW THE FREE GAS TO EXCEED 30 PSIA (207 KPA). EARTH-GROUND AND BOND ALL LINES AND EQUIPMENT ASSOCIATED WITH THE SYSTEM.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:POSITIVE PRESSURE AIR LINE OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:HOOD WITH FORCED VENTILATION. MECHANICAL EXHAUST IN ACCORDANCE WITH ELECTRICAL CODES.

Protective Gloves:PVC OR RUBBER

Eye Protection:SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER.

Work Hygienic Practices:USE GOOD HYGIENE PRACTICES.

Supplemental Safety and Health

STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. SINCE ACETYLENE WILL EXPLODE OR COMBUST IF ITS PRESSURE EXCEEDS 30 PSIA, IT IS SHIPPED DISSOLVED IN ACETONE OR DIMETHYLFORMAMIDE WHICH IS DISPERSED IN A POROUS MASS WITHIN THE CYLINDER.

===== Physical/Chemical Properties =====

HCC:G2

Boiling Pt:B.P. Text:-119F,-84C

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

Vapor Pres:33359

Vapor Density:1.107KG/M3

Spec Gravity:0.906

Evaporation Rate & Reference:N/A, DISSOLVED GAS

Solubility in Water:APPRECIABLE

Appearance and Odor:A COLORLESS GAS WITH A DISTINCTIVE GARLIC-LIKE ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:NO

OXYGEN AND OTHER OXIDIZERS INCLUDING ALL OF THE HALOGENS AND HALOGEN COMPOUNDS, COPPER, MERCURY, SILVER, BRASS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES. DO NOT ALLOW THE FREE GAS TO EXCEED 30 PSIA. AVOID SUDDEN SHOCK OR HEAT.

Hazardous Decomposition Products:CARBON AND HYDROGEN.

Conditions to Avoid Polymerization:DO NOT ALLOW FREE GAS TO EXCEED 30 PSIA. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK OR SOURCES OF HEAT.

===== Disposal Considerations =====

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER. FOR EMERGENCIES, CONTACT SUPPLIER.

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