

NATIONAL WELDERS SUPPLY CO, INC -- ACETYLENE -- 6830-00-292-0138

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Product Identification
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Product ID:ACETYLENE

MSDS Date:01/01/1991

FSC:6830

NIIN:00-292-0138

MSDS Number: BVFXK

=== Responsible Party ===

Company Name:NATIONAL WELDERS SUPPLY CO, INC

Address:2330 BOWDENS FERRY ROAD

City:NORFOLK

State:VA

ZIP:23508

Country:US

Info Phone Num:804-627-5673

Emergency Phone Num:804-627-5673

CAGE:

0SSR7

=== Contractor Identification ===

Company Name:NATIONAL WELDERS SUPPLY CO, INC

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Box:City:NORFOLK

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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

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (R)

AT) 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:ACUTE: INHALATION: ACETYLENE IS ASPHYXIANT. AS NARCOTIC GAS OR INTOXICANT CAUSES HYPERCAPNIA (EXCESSIVE AMOUNT OF CARBON DIOXIDE IN BLOOD). HIGH CONCENTRATIONS (10-20% IN AIR) CAUSE SYMPTOMS SIMILAR T O INTOXICATION. HIGHER CONCENTRATIONS EXCLUDE ADEQUATE SUPPLY OF OXYGEN TO LUNGS CAUSING UNCONSCIOUSNESS. CHRONIC: NONE.

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xplanation of Carcinogenicity:NONE

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:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures
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First Aid:INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE.

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Fire Fighting Measures
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Lower Limits:2.2%

Upper Limits:80 - 85%

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STOP FLOW OF ESCAPING GAS, IF POSSIBLE. USE WATER SPRAY TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard:ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN AIR AT PRESSURES ABOVE 30 PSIA. IF GAS FLOW NOT STOPPED, FIRES CAN REIGNITE WITH EXPLOSIVE FORCE.

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Accidental Release Measures
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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:PROTECT FROM PHYSICAL DAMAGE.STORE IN COOL, DRY,WELL VENTILATED AREA OF NON-COMBUSTIBLE CONSTRUCTION AWAY FROM HEAVILY TRAFFICKED AREAS/EMERGENCY EXIT

Other Precautions:DO NOT STORE AT TEMPERATURES ABOVE 130F. STORE CYLINDERS UPRIGHT AND FIRMLY SECURED. SEGREGATE FULL AND EMPTY CYLINDERS. POST "NO SMOKING OR OPEN FLAMES" SIGNS IN AREA. ELIMINATE ALL SOURCES OF IGNITION IN STORAGE AND USE AREA.

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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. LOCLA EXHAUST AS NEEDED. MECHANICAL EXHAUST IN ACCORDANCE WITH ELECTRICAL CODES.

Protective Gloves:PVC OR RUBBER IN LABORATORY.

Eye Protection:SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER.

Work Hygienic Practices:USE GOOD

HYGIENE PRACTICES.

Supplemental Safety and Health

USE IN WELL VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE, ROLL CYLINDERS. USE HAND TRUCK FOR CYLINDER MOVEMENT. USE PRESSURE REDUCING REGULATOR.DO NOT HEAT CYLINDER TO INCREASE DISCHARGE. USE CHECK VALVE IN DISCHARGE LINE.

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

HCC:G2

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

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

Vapor Pres:645 PSIA

Vapor Density:.0691

Spec Gravity:0.906 @ 68F

Solubility in Water:SOLUBLE

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

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:NO

OXYGEN, OXIDIZERS INCLUDING HALOGENS/HALOGEN COMPOUNDS. FORMS EXPLOSIVE ACETYLIDES WITH COPPER, MERCURY, SILVER,BRASSES.

Stability Condition to Avoid:DO NOT

DO NOT ALLOW FREE GAS (OUTSIDE OF CYLINDER) TO EXCEED 30 PSIA. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK OR HEAT.

Hazardous Decomposition Products: CARBON AND HYDROGEN.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

===== 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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