

NATIONAL WELDERS -- ACETYLENE, DISSOLVED -- 6830-00-286-5434

=====  
Product Identification  
=====

Product ID:ACETYLENE, DISSOLVED

MSDS Date:07/01/1998

FSC:6830

NIIN:00-286-5434

Status Code:A

MSDS Number: CLMRH

=== Responsible Party ===

Company Name:NATIONAL WELDERS

Box:31007

City:CHARLOTTE

State:NC

ZIP:28231

Country:US

Info Phone Num:704-333-5475

Emergency Phone Num:800-866-4422

Resp. Party Other MS

DS Num.:N0000302

Preparer's Name:NOT PROVIDED

Chemtec Ind/Phone:(800)424-9300

CAGE:UO707

=== Contractor Identification ===

Company Name:NATIONAL WELDERS

Box:31007

City:CHARLOTTE

State:NC

ZIP:28231

Country:US

Phone:704-333-5475

CAGE:UO707

=====  
Composition/Information on Ingredients  
=====

Ingred Name:ACETYLENE

CAS:74-86-2

RTECS #:AO9600000

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

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

=====

LD50 LC50 Mixture:NOT PROVIDED

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

Health Hazards Acute and Chronic:INHALATION: LOW CONCENTRATIONS (10-20% IN AIR) CAUSE SYMPTOMS SIMILAR TO THAT OF BEING INTOXICATED. HIGHER CONCENTRATIONS, SO AS TO EXCLUDE AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS, CAUSE UNCONSCIOUSNESS.

Explanation of Carcinogenicity:ACETYLENE IS NOT LISTED IN THE IARC, NTP OR BY OSHA AS A CARCINOGEN OR POTENTIAL CARCINOGEN.

Effects of Overexposure:INHA

LATION: LOW CONCENTRATIONS (10-20% IN AIR)

CAUSE SYMPTOMS SIMILAR TO THAT OF BEING INTOXICATED. HIGHER CONCENTRATIONS, SO AS TO EXCLUDE AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS, CAUSE UNCONSCIOUSNESS.

Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING

APPARATUS AND BE COGNIZANT OF EXTREME FIRE

AND EXPLOSION HAZARD. INHALATION: CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA AND INHALE FRESH AIR. QUICK REMOVAL FROM CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATED AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

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

Flash

Point:GAS

Autoignition Temp:296.1C, 565.F

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 AWAY SINCE HEATED OR BURNING CYLINDERS CAN 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 EXTINGU

ISHED FIRE WITHOUT STOPPING THE  
FLOW OF GAS CAN EASILY RE-IGNITE WITH POSSIBLE EXPLOSIVE FORCE.  
WHEN LEAKING, IT DOES NOT READILY DISSIPATE.

===== 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 CONTAINER VALVE, CONTACT YOU  
R  
CLOSEST SUPPLIER LOCATION OR CALL THE EMERGENCY TELEPHONE NUMBER  
LISTED HEREIN.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL  
DAMAGE. STORE IN COOL, DRY, WELL VENTILATED AREA. DO NOT ALLOW THE  
TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 125F (52C). STORE  
CYLINDERS UPRIGHT, SECURED WITH VALVE PROTECTION CAP IN PLACE.  
THERE SHOULD BE NO SOURCES OF IGNITION IN THE STORAGE AREA.

O  
ther Precautions:USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION  
CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE  
OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE/ROLL CYLINDERS. USE A  
SUITABLE HAND TRUCK FOR CYLINDER MOVEMENT. USE A PRESSURE REDUCING  
REGULATOR WHEN REMOVING GAS FROM THE CYLINDER. DO NOT HEAT  
CYLINDERS

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

Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR  
SEL  
F-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR  
EMERGENCY USE.

Ventilation:LOCAL EXHAUST: TO PREVENT ACCUMULATION ABOVE THE LEL.  
SPECIAL: N/A. VENTILATION: HOOD WITH FORCED VENTILATION.  
MECHANICAL: IN ACCORDANCE WITH ELECTRICAL CODES.

Protective Gloves:PVC OR RUBER IN LABORATORY AS REQUIRED FOR CUTTING  
AND WELDING

Eye Protection:SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:SAFETY SHOES.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health  
ABBREVIAT

ION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM. GI = GASTROINTESTINAL. SCBA = SELF CONTAINED BREATHING APPARATUS.

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

HCC:G2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=-83.6C, -118.8F

B.P. Text:SUBLIMATION POINT

Melt/Freeze Pt:=-80.4C, -113.F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pre

s:33347 @70F(21.1C)

Vapor Density:0.906

Spec Gravity:38.8 LB/FT3 @-116F

Solubility in Water:SOLUBLE

Appearance and Odor:PURE ACETYLENE: COLORLESS GAS - ETHEREAL ODOR.

COMMERICAL: GARLIC-LIKE ODOR

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:NO

OXYGEN AND OTHER OXIDIZERS, INCLUDING ALL OF THE HALOGENS AND HALOGENATED COMPOUNDS. FORMS EXPLOSIVE ACETYLIDE COMPOUNDS WITH

COPPER, MERCURY, SILVER, BRASSES CONTAINING MORE THAN 66% COPPER AND BRAZING MATERIALS CONTAINING

Stability Condition to Avoid:DO NOT ALLOW THE FREE GAS (OUTSIDE OF CYLINDER) TO EXCEED 30 PSIA. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK OR SOURCES OF HEAT.

Hazardous Decomposition Products:CARBON AND HYDROGEN

===== Ecological Information =====

Ecological:AS A NARCOTIC GAS OR INTOXICANT CAUSES HYPERCAPNIA (AN EXCESSIVE AMOUNT

OF CARBON DIOXIDE IN THE BLOOD). THE MAJOR PROPERTY IS THE EXCLUSION OF AN ADEQUATE SUPPLY OF OXYGEN TO THE LUNGS.

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

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER, PROPERLY LABELD, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE, TO YOUR SUPPL IER. FOR EMERGENCY DISPOSAL ASSISTANCE, CONTACT YOUR CLOSEST SUPPL IER LOCATION OR CALL THE EMERGENCY TELEPHONE NUMBER LISTED HEREIN.

===== MSDS Transport Information =====

Transport Information:DOT SHIPPING NAME: ACETYLENE, DISSOLVED. DOT HAZARD CLASS: 2.1. DOT SHIPPING LABEL: FLAMMABLE GAS. I.D. NO.: UN 1001.

===== Regulatory Information =====

SARA Title III Information:REPORTING UNDER SARA, TITLE III, SECTION 313 NOT REQUIRED.

Federal Regulatory Information:NOT PROVIDED

Stat

e Regulatory Information:NOT PROVIDED

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.