

U S AIRGAS INC. -- ACETYLENE -- 6830-00-286-5434

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

Product ID:ACETYLENE
 MSDS Date:05/01/1990
 FSC:6830
 NIIN:00-286-5434
 MSDS Number: CDMMK
 === Responsible Party ===
 Company Name:U S AIRGAS INC.
 Address:100 MATSONFORD ROAD SUITE 550
 City:RADNOR
 State:PA
 ZIP:19087
 Country:US
 Info Phone Num:215-687-5253
 Emergency Phone Num:215-687-1052
 CAGE:OMN39

=== Contractor Identification ===
 Company Name:AIRGAS INC
 Address:100 MATSONFORD RD SUITE 550
 Box:City:WAYNE
 State:PA
 ZIP:19087
 Country:US
 Phone:215-687-5253
 CAGE:OMN39

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

Ingred Name:ACETYLENE
 CAS:74-86-2
 RTECS #:AO9600000
 Fraction by Wt: 100%
 ACGIH TLV:ASPHYXIAN; 9495

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
 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 A SIMPLE ASPHYXIAN.
 MAINTAIN OXYGEN LEVELS OF >18 MOLAR PERCENT.
 Explanation of Carcinogenicity:NOT LISTED BY IARC, NTP OR OSHA AS A
 CARDINOGEN OR POTENTIAL CARCINOGEN.
 Effects of Overexposure:ACETYLENE IS A SIMPLE ASPHYXIAN. LOW
 CONCENTRATION MAY CAUSE INTOXICATION. HIGHER CONCENTRATION CAN
 CAUSE UNCONSCIOUSNESS. AS A NARCOTIC GAS OR INTOXICANT CAUSES
 HYPERCAPNIA (INCREASED CO2 IN BLOOD).
 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.

===== 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 & BE AWARE OF EXTREME FIRE &

EXPLOSION HAZAR D.REMOVE FROM EXPOSURE QUICKLY.PROVIDE CPR/OXYGEN
IF UNCONSCIOUS.TREAT SYMPTOMATICALLY & SUPPORTIVELY.

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Fire Fighting Measures
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Flash Point:FLAMMABLE GAS
Autoignition Temp:Autoignition Temp Text:565F
Lower Limits:2.2
Upper Limits:80 - 85
Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL. COOL FIRE-EXPOSED
CONTAINERS WITH WATER SPRAY.
Fire Fighting Procedures:IF POSSIBLE, STOP FLOW OF GAS. USE WATER TO
COOL SURROUNDING CONTAINERS. KEEP PERSONNEL AWAY SINCE HEATED OR
BURNING CYLINDERS CAN RUPTURE VIOLENTLY.
Unusual Fire/Explosion Hazard:ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN
AIR AT PRESSURE >30PSIA. FIRES WHICH HAVE BEEN EXTINGUISHED W/O
STOPPING FLOW OF GAS CAN EASILY REIGNITE & EXPLODE.

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Accidental Release Measures
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Spill Release Procedures:VENTILATE AREA. USE APPROPRIATE PROTECTIVE
EQUIPMENT. REMOVE ALL SOURCES OF IGNITION. AVOID ENTERING AREA OF
FLAMMABLE ATMOSPHERE. IF LEAK IS IN USER'S EQUIPMENT, PURGE PIPING
WITH AN INERT GAS. IF LEAK IS IN CONTAINER/VALVE, CONTACT NEAREST
SUPPLIER
Neutralizing Agent:MFR GAVE NO INFORMATION OF MSDS.

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Handling and Storage
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Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED
AREA.KEEP CYLINDERS UPRIGHT & FIRMLY SECURED.
Other Precautions:USE "FIRST IN-FIRST OUT" INVENTORY SYSTEM. POST "NO
SMOKING/OPEN FLAMES" SIGN IN THE STORAGE AREA. THERE SHOULD BE NO
SOURCES OF IGNITION IN STORAGE/USE AREA. DO NOT ALLOW THE
TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 130F (54C).

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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:LOCAL & MECHANICAL
Protective Gloves:PVC OR RUBBER
Eye Protection:SAFETY GLASSES/GOGGLES
Other Protective Equipment:SAFETY SHOES, EMERGENCY SHOWER
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health
NONE

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Physical/Chemical Properties
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HCC:G2
NRC/State Lic Num:NONE
Boiling Pt:B.P. Text:-119F, -84C
Melt/Freeze Pt:M.P/F.P Text:-113F, -81C
Vapor Pres:645 PSIA
Evaporation Rate & Reference:N/A.
Solubility in Water:SOLUBLE
Appearance and Odor:PURE ACETYLENE IS COLORLESS-ETHEREAL
ODOR.COMMERCIAL ACETYLENE GARLIC-LIKE ODOR

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Stability and Reactivity Data
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Stability Indicator/Materials to Avoid:NO

OXYGEN & OTHER OXIDIZERS INCLUDING ALL HALOGENS & HALOGEN COMPOUNDS.

FORMS EXPLOSIVE METAL ACETYLIDES

Stability Condition to Avoid:DO NOT ALLOW FREE GAS TP EXCEED 30 PSIA.

DO NOT EXPOSE CYLINDERS TO SUDDEN SHOCK OR SOURCES OF HEAT.

Hazardous Decomposition Products:CARBON & HYDROGEN

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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Disposal Considerations
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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 & VALVE PROTECTION CAP IN
PLACE TO YOUR SUPPLIER OR CALL THE EMERGENCY TELEPHONE NUMBER.

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