



ACETYLENE

MSDS Number

BHDGC

National Stock Number

6830-00-270-8216

Product Name

ACETYLENE

Manufacturer

UNION CARBIDE CORP

Product Identification

Product ID:ACETYLENE
MSDS Date:04/01/1987
FSC:6830
NIIN:00-270-8216
MSDS Number: BHDGC

Responsible Party

UNION CARBIDE CORPORATION

39 OLD RIDGEBURY ROAD

DANBURY , CT 06817-0001

US

Emergency Phone: 1-800-822-4357 CANADA 514-640-6400

Info Phone: ROUTINE INFO CONTACT LOCAL SUPPLIER

Cage: 36346

Contractor

UNION CARBIDE CORP LINDE DIV

DANBURY, CT 06817-0001

US

800-822-4357; 304-744-3487

Cage: 36346

Ingredients

ACETYLENE

CAS: 74-86-2

Fraction By Weight: 100%

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SOME TOXIC GASES ASSOCIATED WITH
WELDING AND RELATED PROCESSES MAY CAUSE PULMONARY EDEMA,
ASPHYXIATION, AND DEATH.
Effects of Overexposure:INHALATION: ASPHYXIATION. MODERATE
CONCENTRATIONS OF VAPOR MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS,
NAUSEA, VOMITING, EXCITATION, EXCESS SALIVATION, AND
UNCONSCIOUSNESS. LIQUID MAY CAUSE FROSTBITE.

First Aid

First Aid:SKIN: FLUSH FROSTBITE AREA WITH WARM WATER, NOT HOT. IN CASE
OF MASSIVE EXPOSURE REMOVE CLOTHING WHILE SHOWERING WITH WARM WATER.
CALL A PHYSICIAN. INHALATION: REMOVE TO FRESH AIR. IF BREATHING



HAS STOPPED GIVE CPR AND SUPPLEMENTAL OXYGEN;CALL A PHYSICIAN.
EYES: IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST
15 MIN. SEE OPHTHAMOLOGIST. IF SWALLOWED, INDUCE VOMITING.

Fire Fighting

Flash Point Method:TCC
Flash Point:-17C/0F
Autoignition Temp:Autoignition Temp Text:*BELOW
Lower Limits:2.3%
Upper Limits:100%
Extinguishing Media:EVACUATE AREA. IMMEDIATELY COOL CONTAINERS WITH
WATER SPRAY.REMOVE IGNITION SOURCES. ALLOW FIRE TO BURN OUT.
Fire Fighting Procedures:IF FLAMES ARE ACCIDENTALLY EXTINGUISHED,
EXPLOSIVE RE-IGNITION MAY OCCUR. STOP FLOW OF GAS IF WITHOUT RISK
WHILE CONTINUING COOLING WATER SPRAY.
Unusual Fire/Explosion Hazard:FORMS EXPLOSIVE MIXTURES WITH AIR AND
OXIDIZING AGENTS. CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. DO
NOT EXTINGUISH FLAMES DUE TO EXPLOSIVE RE-IGNITION.

Accidental Release

Spill Release Procedures:EVACUATE AREA. USE PROTECTIVE EQUIP. REMOVE
ALL SOURCES OF IGNITION & SHUT OFF LEAK IF W/O RISK. VENTILATE
AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA.

Handling

Handling and Storage Precautions:STORE/USE IN COOL, DRY, WELL
VENTILATED AREA.STOREAWAY FROM SOURCES OF HEAT/IGNITION. STORE
FIRMLY SECURED AND UPRIGHT.

Exposure Controls

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN WORKING IN CONFINED SPACE OR WHERE LOCAL
EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.
Ventilation:LOCAL EXHAUST- USE ENOUGH VENTILATION TO KEEP THE FUMES AND
GASES BELOW THE TLV'S IN THE WORKERS BREATHING ZONE.
Protective Gloves:WELDING GLOVES
Eye Protection:GOGGLES WITH FILTER LENS
Other Protective Equipment:AS NEEDED, WEAR HAND, HEAD AND BODY
PROTECTION.
Supplemental Safety and Health
NK

Chemical Properties

Vapor Pres:635 PSIG
Vapor Density:0.91
Solubility in Water:SLIGHT
Appearance and Odor:COLORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE;
GARLIC-LIKE ODOR.
Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:NO
COPPER, SILVER, MERCURY, OR THEIR ALLOYS, OXIDIZING AGENTS, ACIDS,
HALOGENS, MOISTURE.
Stability Condition to Avoid:STABLE AS SHIPPED. AVOID PRESSURES ABOVE
15 PSIG.
Hazardous Decomposition Products:CARBON MONOXIDE AND CARBON DIOXIDE.
OTHER COMPOSITION PRO- DUCTS ORIGINATE FROM VOLITIZATION,
REACTION, & OXIDATION.
Conditions to Avoid Polymerization:ELEVATED TEMPERATURE AND PRESSURE
AND/OR THE PRESENCE OF A CATALYST.

Disposal

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. KEEP PERSONNEL AWAY. DISCARD ANY PRODUCT,
RESIDUE, DISPOSABLE CONTAINER OR LINER INAN ENVIRONMENTALLY
ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH STATE, FEDERAL &



LOCAL REGULATIONS

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