

ACETYLENE

MSDS Number

BHDHL

National Stock Number

6830-00-286-5434

Product Name

ACETYLENE

Manufacturer

N P

Contractor

HAMPTON ROADS SUPPLY UNION CARBIDE LINDE DIVISION

12567

NORFOLK, VA 23502-3123

US

Cage: 7D711

Ingredients

ACETYLENE

CAS: 74-86-2

Fraction By Weight: 100%

ACGIH TLV: 750 PPM

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:INGST;UNLIKELY RT BUT FRSTBITE OF LIPS/MOUTH MAY RESULT FROM CONTACT W/LIQ. IF LIQ IS INGST MAY CAUSE NAUSEA.SKIN:NO HRMFL EFFCTS EXPECTED FROM VAPOR.LIQ MAY CAUSE FRSTBITE.EYE:VAPOR/LIQ MAY CAUSE IRRITATION/FRSTBITE.INHL:ASPHYXIAN. MODTCONCNT OF VAPOR HDACHE,DROWINS,DIZZINS,NAUSEA,VOMITING,EXCS SALIVAT,& UNCONSCNS. Effects of Overexposure:NONE CURRENTLY KNOWN.
Medical Cond Aggravated by Exposure:A NKOWLEDGE OF AVAILABLE TOXICOLOGY INFORMATION & PHYSICAL/CHEMICAL PROPERTIES OF MATERIAL SUGGEST THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTNGMEDICAL CONDITIONS.

First Aid

First Aid:INGST: IF LIQUID IS SWALLOWED DONOT INDUCE VOMITING. CALL A PHYSICIAN. SKIN: FOREXPOSURE TO LIQUID, FLUSH W/WATER & WARM FROSTBITE AREA (NOT TO EXCEED 105F). INCASE OF MASSIVE EXPSR REMOVE CLTHNG W/SH OWERING W/WARM WTR. EYE: IMMEDIATELYFLUSH W/WTR FOR 15 MINUTES. SEEK AN OPHTHALMOLOGIST URGENTLY.INHL:REMOVE TO FRSH AIR. IF BREATHING STOPS,GIVE ARTIFCL RESP. OR OXYGEN IF BREATHING IS DIFFICULT.

Fire Fighting

Flash Point Method:TCC
Flash Point:OF/-17.8C
Autoignition Temp:Autoignition Temp Text:*****
Lower Limits:100
Upper Limits:2.3
Extinguishing Media:STOP FLW OF GAS W/O RISK WHILE CONT WTR SPRAY.ALLOW FIRE TO BRN OUT.ON SITE FIRE BRIGADES MUST COMPLY W/OSHA29CFR1910
Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. REMOVE ALL CONTNRS FROM AREA OF FIRE. ON SITE FIRE BRIGADES MUST

COMPLY WITH OSHA 29 CFR1910.156.
Unusual Fire/Explosion Hazard:EXTRMLY FLAMBLE GAS. FORMS EXPLSV MIXT W/AIR & OXIDIZING AGENTS. CONTAINER MAY RUPTURE DUE TO HEAT OR FIRE. DO NOT EXTNGSH FLAMES DUE TO POSS. EXPLSV REIGNITN

Accidental Release

Spill Release Procedures:FORMS EXPLSV MIXTR W/AIR.IMMEDLY EVACUATE PERSONL FROM AREA.USE SCBA W/NEEDED.REMOVE ALL SOURCE OF IGNITION.REDUCE VAPORS W/FOG OR FINE WTR SPRAY. SHUT OFF LEAK IF W/O RISK.VENTL AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL VENTL AREA.

Handling

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTL AREA. DONOT STORE NEAR OPEN FLAMES.DONOT GRND CYLNDR.DONOT STORE W/ OXYGEN/OXIDIZERS.PROTECT CYLND FROM PHYSCL DAMAGE
Other Precautions:DO NOT STRIKE ARC ON CYLINDER. HEAT/SPARKS DURING USE COULD BE SOURCE OF INGNTN.CLOSE VALVE WHEN NOT IN USE & WHEN EMPTY. NEVER WORK ON PRESSURIZED SYSTEMS. STORE CYLINDERS IN UPRIGHT POSITION SECU RED TO PREVENT FALLING OVER.

Exposure Controls

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WORKING IN CONFINED SPACE OR WHERE LOCAL EXHAUST/VENTL DOES NOT KEEP EXPOSURE BELOW TLV. SELECT AS PER OSHA29 CFR1910.134.
Ventilation:LOCAL EXHAUST OR BOTH, TO KEEP THE FUMES/GASES BELOW TLV'S IN WORKER'S BREATHING ZONE/THE GENERAL AREA.
Protective Gloves:WELDING GLOVES RECOMMENDED
Eye Protection:GOGGLES W/FLTR LENS,PROTCTV SCREEN/GOGLS
Other Protective Equipment:AS NEEDED, WEAR HAND,HEAD, & BODY PROTECTION WHICH HELPS TO PREVENT INJURY FROM RADIATION & SPARKS.SEE ANSI Z49.1

Supplemental Safety and Health
NK

Chemical Properties

Boiling Pt:B.P. Text:NA
Vapor Pres:635 PSIG
Vapor Density:0.91
Spec Gravity:NA
Evaporation Rate & Reference:NA
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 USE AT PRESSURE ABOVE 15 PSIG
Hazardous Decomposition Products:THERMAL DECOMP OR BURNING MAY PRODC CO/CO2H2.OTHER DECOMPSTNPROD OF NRML OPERT ORIGINATE FROM VOLATILIZATION,OXIDATION.
Conditions to Avoid Polymerization:ELEVATED TEMPERATURE AND PRESSURE AND/OR THE PRESENCE OF A CATALYST.

Disposal

Product ID:ACETYLENE
MSDS Date:04/01/1987
FSC:6830
NIIN:00-286-5434
MSDS Number: BHDHL

Waste Disposal Methods:DISCARD ANY PRODUCT,RESIDUE,DISPOSABLE CONTAINER

OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER IN COMPLIANCE
W/FEDERAL,STATE,& LOCAL REGULATIONS.PREVENT WASTE FROM
CONTAMINATING SURROUNDING AREA. KEEP PERSONNEL AWAY.

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