

ACETYLENE,ETHYNE, ETHINE

MSDS Number

BHDLV

National Stock Number

6830-00-442-5638

Product Name

ACETYLENE,ETHYNE, ETHINE

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

Product Identification

Product ID:ACETYLENE,ETHYNE, ETHINE

MSDS Date:07/10/1986

FSC:6830

NIIN:00-442-5638

MSDS Number: BHDLV

Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

ALLENTOWN , PA 18105

US

Emergency Phone: 1-800-322-9092

Info Phone: 215-481-4911

Cage: 00742

Contractor

OXYGEN SALES AND SERVICE INC

11393

TACOMA, WA 98411-0393

US

800-345-3148/ 800-752-1597

Cage: 5H199

Ingredients

ACETYLENE, ETHYNE, ETHINE

CAS: 74-86-2

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Explanation of Carcinogenicity:ACETYLENE IS A SIMPLE ASPHYXIANT AND HAS NO TLV

Effects of Overexposure:HEADACHES,DIZZINESS,SHORTNESS OF BREATH, & LOSS OF CONSCIOUSNESS MAY OCCUR IF THE GAS IS PRESENT IN QTY.

SUFFICIENT TO DILUTE OXYGEN IN AIR. ANOXIA OCCUR ONLYWHEN GAS CONCENTRATIONS ARE WITHIN THE F LAMMABLE RANGE AND THE MIXTURE HAS NOTIGNITED.

First Aid

First Aid:FIRST/SECOND DEGREE THERMAL BURNS FROM FIRES SHOULD BE IMMERSSED IN COOL WATER FOR 30 MINS. MAJOR SECOND/THIRD DEGREE BURNS SHOULD BE COVERED IN CLEANEST MATL AVAILABLE. PERSONS SUFFERING FROM LACK O F OXYGEN SHOULD BE MOVED TO AREA WITHNORMAL

ATMOSPHERE. ASSISTED RESPIRATION/SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF VICTIM IS NOT BREATHING. CONSULT A PHYSICIAN IMMEDIATELY.

Fire Fighting

Flash Point Method:CC

Flash Point:OF/-18C

Autoignition Temp:Autoignition Temp Text:**

Lower Limits:2.5

Upper Limits:100

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, HALON

Fire Fighting Procedures:USE WATER SPRAY TO KEEP CYLINDER/CONTAINERS COOL IF EXPOSED TO FIRE.KEEP PERSON NEL AWAY SINCE CONTAINERS CAN RUPTURE VIOLENTLY WHEN EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:POTENTIAL EXPLOSION HAZARD EXISTS FROM REIGNITION IF FIRE IS EXTINGUISHED W/OUT SHUTTING OFF ACETYLENE SOURCE.IGNITES VERY EASILY DUE TO LOW MINIMUM IGN ENERGY.

Accidental Release

Spill Release Procedures:REMOVE SOURCES OF IGNITION,HEAT,SPARKS,ETC. VENTI LATE AREA TO PREVENT FLAMMABLE MIXTURE FROM FORMING. REMOVE CYLINDERS W/SLOW LEAKS TO A REMOTEOUTDOOR LOCATION. CONTACT AIR PRODUCTS FOR ASSIST ANCE.

Handling

Handling and Storage Precautions:KEEP CYLINDERS AWAY FROM SOURCES OF HEAT.STORE IN A NONHEAVY TRAFFIC AREA TO PREVENT DAMAGE. SEGRE- GATE FULL/EMPTY CYLINDERS.

Other Precautions:KEEP CYLINDERS UPRIGHT/FIRMLY SECURED WHEN IN USE. KEEP CYLINDERS AWAY FROM STORAGE OF OXYGEN/OTHER OXIDIZERS.

AVOID DRAGGING,ROLLING,SLIDING CYLINDERS. OPEN & CLOSE ACETYLENE VALVES SLOWLY. US E A SUITABLE HANDTRUCK FOR MOVEMENT.

Exposure Controls

Respiratory Protection:OXYGEN DEFICIENT ATMOSPHERES ARE IN THE FLAMMABLE RANGE. DO NOT ENTER!! RESPIRATORS WILL NOT FUNCTION.

Ventilation:NATURAL OR MECHANICAL WHERE GAS IS PRESENT

Protective Gloves:LEATHER GLOVES/WELDERS GLOVES

Eye Protection:SAFETY GLASSES/WELDERS GOGGLES

Other Protective Equipment:LEATHER SLEEVES, LEATHER APRON AND OTHER STANDARD PROTECTIVEEQUIPMENT FOR CUTTING/WELDING

Supplemental Safety and Health

NK

Chemical Properties

Boiling Pt:B.P. Text:*SEE BELOW

Vapor Pres:590 PSIA

Vapor Density:1ATM.0681

Spec Gravity:1 ATM 0.906

Solubility in Water:1ATM 1.0CUFT/CUFTH2O

Appearance and Odor:PURE:COLORLESS,ODORLESS. INPURITIES:CHARACTERISTIC GARLIC LIKE ODOR.

Percent Volatiles by Volume:30PSI

Stability

Stability Indicator/Materials to Avoid:NO

OXIDIZERS AS OXYGEN/HALOGENS. FORMS EXPLOSIVE COMPOUND WITH COPPER,BRASS,COPPER SALTS,HG/HG SALTS,K,AG/AG SALTS,& HNO3.

Stability Condition to Avoid:AVOID MECHANICAL SHOCKS TO CONTAINERS OF ACETYLENE. NEVER EXPOSE CYLINDERS/ACETYLENE SYSTEMS TO SOURCE OF HEAT.

Hazardous Decomposition Products:ACETYLENE WILL DECOMPOSE INTO ELEMENTAL CARBON & HYDROGEN UNDER THE ABOVE CONDITIONS.

Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL GASEOUS ACETYLENE IN CYLINDERS. RETURN TO AIR PRODUCTS FORDISPOSAL.

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