

AIR PRODUCTS AND CHEMICALS, INC. -- ACETYLENE, ETHYNE, ETHINE -- 6830-00-337-0389

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Product Identification
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Product ID:ACETYLENE, ETHYNE, ETHINE
MSDS Date:07/10/1986
FSC:6830
NIIN:00-337-0389
MSDS Number: BHDLJ
=== Responsible Party ===
Company Name:AIR PRODUCTS AND CHEMICALS, INC.
Box:538
City:ALLENTOWN
State:PA
ZIP:18105
Country:US
Info Phone Num:215-481-4911
Emergency Phone Num:1-800-523-9374 IN PA:1-800-322-9092
CAGE:00742
=== Contractor Identification ===
Company Name:AIR PRODUCTS AND CHEMICALS INC
Address:7201 HAMILTON BLVD
Box:City:ALLENTOWN
State:PA
ZIP:18195-1501
Country:US
Phone:800-345-3148/ 800-752-1597
CAGE:00742
Company Name:OXYGEN SALES AND SERVICE INC
Address:2043 S 35TH ST
Box:11393
City:TACOMA
State:WA
ZIP:98411-0393
Country:US
CAGE:5H199

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Composition/Information on Ingredients
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Ingred Name:ACETYLENE
CAS:74-86-2

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==== Hazards Identification =====

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

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

Health Hazards Acute and Chronic:ACETYLENE IS A SIMPLE

ASPHYXIANT,IRRITANT, & ANESTHETIC. ABOUT 100 MG PER LITER MAY BE TOLERATED FOR 0.5-1.0 HOUR. THERE IS NO EXPERIMENTAL EVIDENCE OF CHRONIC HARMFUL EFFECTS.

Explanation of Carcinogenicity:ACETYLENE IS CLASSIFIED AS A SIMPLE ASPHYXIANT & HAS NO TLV.

Effects of Overexp

posure:HEADACHES, DIZZINESS, SHORTNESS OF BREATH, &

LOSS OF CONSCIOUSNESS MAY OCCUR IF THE GAS IS PRESENT IN QUANTITIES SUFFICIENT TO DILUTE THE OXYGEN CONCENTRATION IN AIR.SYMPTOMS OF ANOXIA OCCUR ONLY WHE N THE GAS CONCENTRATIONS ARE WITHIN THEFLAMMABLE RANGE & THE MIXTURE HAS NOT IGNITED.

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

First Aid:FIRST/SECOND (MINOR) THERMAL BURNS FROM FIRES SHOULD BE IMMERSUED IN COOL WATER FOR 30 MINUTES. MAJOR SECO ND/THIRD DEG

BURNS SHOULD BE COVERED IN THE CLEANEST MATERIAL AVAILABLE.

PERSONS SUFFERING FR OM LACK OF OXYGEN SHOULD BE MOVED TOFRESH AIR, ASSISTED RESPIRATION & SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF THE VICTIM IS NOT BREATHING. SEEK IMMEDIATE AID OF A PHYSICIAN.

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

Flash Point Method:CC

Flash Point:OF/-18C

Autoignition Temp:Autoignition Temp Text:**

Lower Limits:2.5

Upper Limits:100

Extinguishing Media:CA

RBON DIOXIDE, DRY CHEMICAL, HALON

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

Unusual Fire/Explosion Hazard:ACETYLENE IS EXTREMELY

FLAMMABLE/EXPLOSIVE & BURNS WITH AN INTENSELY HOT FLAME. CAN REIGNITE IF FIRE IS EXTINGUISHED W/O SHUTTING OFF ACETYLENE SOURCE.

==== Accidental Release Measures =====

Spill Release Procedur

es:VENTILATE AREA TO PREVENT FLAMMABLE MIXTURE FROM FORMING. REMOVE SOURCES OF IGNITION,HEAT,SPARKS, ETC. CAREFULLY REMOVE CYLINDERS W/SLOW LEAKS TO A REMOTE OUTDOOR LOCATION. CONTACT AIR PRODUCTS FOR ASSISTANCE.AVOID ENTERING AREA W/FLAMMABLE ATMOS.

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

Handling and Storage Precautions:USE A SUITABLE HANDTRUCK FOR MOVEMENT.STORAGE SHOULD NOT BE IN HEAVY TRAFFIC AREAS TO PREVENT DAMAGE. KEEP CYLINDERS AWAY FROM SOURCES OF HEAT.

Other Precautions:SEGREGATE FULL/EMPTY CYLINDERS. AVOID DRAGGING,ROLLING, OR SLIDING CYLINDERS. CYLINDERS SHOULD BE UPRIGHT & SECURED WHEN IN USE. STORAGE OF 2500CU.FT. OR LESS IS PERMISSIBLE W/IN BUILDING,IN EXCESS OF 2500CU.FT. MUST BE STORED OUTDOORS.

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

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,OTHER STANDARD PROTECTIVE EQUIPMENT.

Supplemental Safety and Health

NK

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

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

Vapor Pres:590 PSIA

Vapor Density:0.0681

Spec Gravity:1 ATM .906

Solubility in Water:1 ATM 1.0

Appearanc

e and Odor:PURE: COLORLESS, ODORLESS IMPURITIES: GARLIC
LIKE ODOR.

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

Stability Indicator/Materials to Avoid:NO

OXIDIZER AS OXYGEN,HALOGENS.FORMS EXPLOSIVE COMPOUNDS WITH
COPPER,BRASS,COPPER SALT,HG/HG SALTS, K, AG/AG SALTS, & HNO3

Stability Condition to Avoid:AVOID MECH. SHOCKS TO CONTAINERS OF
ACETYLENE.NEVER UTILIZE FREE GAS OUTSIDE THE CYLINDER AT PRESS IN
EXCESS OF 15 PSIG.

Hazardous Decomposition Products:

ACETYLENE WILL DECOMPOSE INTO

ELEMENTAL CARBON & HYDROGEN UNDER THE ABOVE CONDITIONS.

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

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

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