

AIR PRODUCTS AND CHEMICALS, INC. -- ACETYLENE, ETHYNE, ETHINE -- 6830-00-264-6752

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Product Identification
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Product ID:ACETYLENE, ETHYNE, ETHINE

MSDS Date:07/10/1986

FSC:6830

NIIN:00-264-6752

MSDS Number: BHDFM

=== Responsible Party ===

Company Name:AIR PRODUCTS AND CHEMICALS, INC.

Address:2043 S 35TH ST

Box:11393

City:TACOMA

State:WA

ZIP:98411-0393

Country:US

CAGE:00742

=== Contractor I

dentification ===

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
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Rout

es of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Explanation of Carcinogenicity:ACETYLENE IS CLASSIFIED AS A SIMPLE
ASPHYXIAN AND HAS NO TLV.

Effects of Overexposure:HEADACHES, DIZZINESS, SHORTNESS OF BREATH, AND
LOSS OF CONSCIOUSNESS MAY OCCUR IF THE GAS IS PRESENT IN
QUANTITIES TO DILUTE THE OXYGEN CONCENTRATION IN AIR. SYMPTOMS OF
ANOXIA OCCUR ONLY WHEN THE GAS CONCENTRATIONS ARE WITHIN THE
FLAMMABLE RANGE & THE
MIXTURE HAS NOT IGNITED.

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

First Aid:FIRST DEGREE & MINOR SECOND DEGREE THERMAL BURNS FROM FIRES
SHOULD BE IMMERSUED IN COOL WATER FOR 30 MINUTES.MAJOR BURNS SHOULD
BE COVERED IN CLEANEST MATERIAL AVAILABLE. SEEK IMMEDIATE AID OF
PHYSICIAN.PERSONS SUFFERING FROM LACK OF OXYGEN SHOULD BE MOVED TO
AREAS W/NORMAL ATMOSPHERE. ASSISTED RESPIRATION AND SUPPLEMENTAL
OXYGEN SHOULD BE GIVEN IF VICTIM IS NOT BREATHING.

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

Flash Point Method:CC
Flash Point:OF / -18C
Autoignition Temp:Autoignition Temp Text:***
Lower Limits:100
Upper Limits:2.5
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, HALON
Fire Fighting Procedures:STOP GAS FLOW/FIGHT FIRE CONVENTIONALLY. USE
WATER SPRAY TO KEEP CYLINDERS/OTHER CONTAINERS COOL IF EXPOSED TO
FIRE.KEEP PERSONNEL AWAY SINCE CONTNR CAN RUPTURE.
Unusual Fire/Explosion Hazard:IT BURNS W/INTENSELY HOT
FLAME.POTENTIAL
EXPLOSION HAZARD EXISTS FROM REIGNITION IF FIRE IS EXTING. W/O
SHUTTING OFF ACETYLENE SOURCE.

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

Spill Release Procedures:VENTILATE AREA TO PREVENT FLAMMABLE MIXTURE
FROM FORMING. REMOVE SOURCES OF IGNITION,HEAT,SPARKS, ETC.
CAREFULLY REMOVE CYLINDERS W/SLOW LEAK TO A REMOTE OUTDOOR
LOCATION. AVOID ENTERING AREA OF FLAMMABLE ATMOSPHERE.

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

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Handling and Storage Precautions:USE SUITABLE HANDTRUCK.ALWAYS
OPEN/CLOSE ACETYLENEVALVES SLOWLY.KEEP CYLINDERS AWAY FROM HEAT
SOURCESTORAGE SHOULD NOT BE IN HEAVY TRAFFIC AREAS.

Other Precautions:SEGREGATE FULL & EMPTY CYLINDERS. KEEP ACETYLENE
CYLINDERS STORAGE AREAS AWAY FROM OXYGEN AND OTHER OXIDIZERS.
AVOID DRAGGING,ROLLING,OR SLIDING CYLINDERS. AVOID EXPOSURE TO
AREAS WHERE SALT OR OT HER CORROSIVE CHEMICAL ARE PRESENT.

===== Exposure Control
s/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. MECHANICAL
VENTILATION FOR ENCLSD AREA MUST MEET NEC REQMENTS FOR CL1,GRP4.

Protective Gloves:LEATHER WORK GLOVES/WELDERS WORK GLOVES

Eye Protection:SAFETY GLASSES/WELDERS GOGGLES

Other Protective Equipment:LEATHER SLEEVES, LEATHER APRON AND OTHER
STANDARD PRO

TECTIVEEQUIPMENT FOR CUTTING AND WELDING.

Supplemental Safety and Health

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

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

Vapor Pres:590 PSIA

Vapor Density:1 ATM.0681

Spec Gravity:1 ATM 0.906

Solubility in Water:1ATM1.0CUFT/CUFTH2O

Appearance and Odor:PURE: COLORLESS & ODORLESS; IMPURITIES IMPART A
CHARACTERISTIC GARLIC LIKE ODOR

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

Stability Indicator/Materials to Avo

id:NO

OXYGEN & HALOGENS. FORMS EXPLOSIVE COMPOUNDS W/COPPER,BRASS,COPPER
SALTS, HG & HG SALTS,AG & AG SALTS, & HNO3.

Stability Condition to Avoid:NEVER UTILIZE FREE GAS OUTSIDE CYLINDER AT
PRESS.