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Product ID:ACETYLENE, DISSOLVED MSDS Date:03/01/1998 FSC:6830 NIIN:00-292-0137 Status Code:A MSDS Number: CJDGR === Responsible Party === Company Name: AIR PRODUCTS AND CHEMICALS INC. Address:7201 HAMILTON BLVD City:ALLENTOWN State:PA ZIP:18195-1501 Country:US Info Phone Num:215-481-4911 Em ergency Phone Num:800-523-9374/800-322-9092(IN PA) 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: AIR PRODUCTS AND CHEMICALS INC Address:2900 52ND AVE Box:City:HYATTSVILLE State:MD ZIP:20781-1103 Country:US Phone:610-481-6333 CAGE:56028

Ingred Name:

ACETYLENE CAS:74-86-2 RTECS #:AO9600000 > Wt:99. Other REC Limits:NONE RECOMMENDED ACGIH TLV:ASPHYXIANT; 9394

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS: RESPIRATORY SYSTEM. ACUTE- ACETYLENE IS A SIMPLE ASPHYXIANT. IT SHOULD BE NOTED THAT BEFORE SUFFOCATION COULD OCCUR, THE LOWER FLAMMABILITY LIMIT OF

ACETYLENE IN AIR WOULD BE EXPECTED; POSSIBLY CAUSING BOTH AN OXYGEN DEFICIENT AND AN EXPLOSIVE ATMOSPHERE. EXPOSURE TO MODERATE CONCENTRATIONS MAY CAUSE DIZZINESS, HEADACHE, AND UNCONSCIOUSNESS. EYE CONTACT: NONE. SKIN CONTACT: NONE. IN GESTION: THIS PRODUCT IS A GAS. CANNOT BE SWALLOWED OR CONTACTED. CHRONIC- ACETYLENE IS A NON-TOXIC GAS THAT HAS NO CHRONIC HARMFUL EFFECTS EVEN IN HIGH CONCENTRATIONS. ACETYLENE HAS BEEN USED AS AN A NESTHETIC. Explanation of Carcinogen

icity:NONE

Effects of Overexposure:ASPHYXIANAT, IRRITANT, ANESTHETIC. HEADACHE, DIZZINESS, SHORTNESS OF BREATH, LOSS OF CONSCIOUSNESS Medical Cond Aggravated by Exposure:NONE

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, AMINISTER OXYGEN. OBTAIN PROMPT MEDICAL ATTENTION. EYE CONTACT: N/R. SKIN CONTACT: N/R. INGESTION: N/R. NOTE TO PH YSICIAN: NONE.

Flash Point:GAS
Autoignition Temp:=305.C, 581.F
Lower Limits:2.5%
Upper Limits:81%
Extinguishing Media:CARBON DIXOIDE, DRY CHEMICAL, WATER. KEEP CYLINDERS
COOL WITH WATER SPRAY.
Fire Fighting Procedures:NIOSH-APPROVED SELF-CONTAINED BREATHING
APPARATUS MAY BE REQUIRED FOR FIRE FIGHTERS. EVACUATE ALL PERSONNEL
FROM DANGER AREA. IF POSSIBLE, SHUT OFF FLOW OF ACETYLENE.

EXTINGUISH FIRE ONLY IF FLOW

 CAN BE STOPPED. IF A FLAME IS EXTINGUISHED AND ACETYLENE CONTINUE TO ESCAPE, AN EXPLOSIVE RE-IGNITION COULD OCCUR. Unusual Fire/Explosion Hazard:EXCESSIVE HEAT OR FIRE WILL CAUSE PRESSURE RELIEF DEVICE TO MELT ALLOWING ACETYLENE TO ESCAPE. CYLINDERS MAY RUPTURE VIOLENTLY IF SIDEWALLS ARE EXPOSED TO DIRI FLAME. 	ECT
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 Spill Release Procedures: EVACUATE IMMEDIATE AREA. ELIMINATE ANY POSSIBLE SOURCES OF IGNITI ON, AND PROVIDE MAXIMUM EXPLOSION-PROOF VENTILATION. SHUT OFF SOURCE OF ACETYLENE, IF POSSIBLE. ISOLATE AN LEAKING CYLINDER. IF LEAKIN G FROM CYLINDER, VALVE, OR PRESSURE RELIEF DEVICE, CONTACT YOUR SUPPLIER. Neutralizing Agent:NONE 	IY
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Handling and Storage Precautions:STORE AND USE WITH ADEQUATE VENTILATION. CYLINDERS SHOULD BE SEPARATED FROM OXYGEN AND OTH OXIDIZERS BY A MINIMUM DISTANCE OF 20 FT. OR BY A BARRICADE OF NON-COMBUSTIBLE MATERIAL AT LEAST 5 FT. HIGH HAVING A FIRE RESISTANCE RATING OF AT LEAST 1/2 HOUR.	IER
Other Precautions:STORAGE IN EXCESS OF 2,500 CU.FT. IS PROHIBITED IN BUILDINGS WITH OTHER OCCUPANCIES. DO NOT ALLOW STORAGE TEMPER EXCEEDS 125F (52C). PROTECT CYLINDERS FROM PHYSICAL DAMAGE. DO N DRAG, SLIDE OR DROP. USE A SUITABLE HAND TRUCK. ELECTRICAL EQUIPMENT SHOULD BE NON-SPARKING OR EXPLOSION-PROOF.	

======= Exposure Controls/Personal Pro

tection =========

Respiratory Protection:OXYGEN-DEFICIENT ATMOSPHERS ARE IN THE FLAMMABLE RANGE. DO NOT ENTER. AIR PRUIFYING RESPIRATORS WILL NOT FUNCTION. USE NIOSH-APPROVED AIR-SUPPLIED RESPIRATORS IN OXYGEN-DEFICIENT ATMOSPHERES.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO ENSURE ACETYLENE DOES NOT REACH ITS LOWER FLAMMABLE LIMIT OF 2.5%.

Protective Gloves:WORK GLOVES WHEN HANDLING CYLINDERS Eye Protection:SAFETY GLASSES WHEN

HANDLING CYLINDERS Other Protective Equipment: SAFETY SHOES RECOMMENDED WHEN HANDLING CYLINDERS Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health HCC:G2 Boiling Pt:=-75.2C, -103.4F B.P. Text:10 PSIG Melt/Freeze Pt:=-82.2C, -116.F M.P/F.P Text:AT 10 PSIG Vapor Pres:32844 @ 70F Vapor Density:0.90 Spec Gravity:GAS Evaporation Rate & amp; Reference: GAS Solubility in Water: 1.7 VOL/VOL @ 32F (0C) Appearance and Odor: COLORLESS, ODORLESS GAS BUT COMMERCIAL PURITY HAS A GARLIC-LIKE ODOR Percent Volatiles by Volume:>99 Stability Indicator/Materials to Avoid:NO OXYGEN AND OTHER OXIDIZERS INCLUDING HALOGEN AND HALOGEN COMPOUNDS, MOISTURE, CERTAIN ACIDS, OR ALKALINE MATERIALS, COPPER, SILVER, MERCURY Stab ility Condition to Avoid: STABLE AS SHIPPED. DO NOT USE AT PRESSURE ABOVE 15 PSIG. CYLINDERS SHOULD NOT BE EXPOSED TO SUDDEN SHOCK OR SOURCES OF HEAT Hazardous Decomposition Products:HYDROGEN, CARBON Toxicological Information: ACETYLENE IS A SIMPLE ASPHYXIANT. Ecological:NO ADVERSE ECOLOGICAL EFFECTS ARE EXPECTED.

====== Disposal Consid

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Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL GAS IN CYLINDERS. RETURN CYLINDERS TO SUPPLIER. UNSERVICEABLE CYLINDERS SHOULD BE RETURNED TO THE SUPPLIER FOR SAFE AND PROPER DISPOSAL.

Transport Information:TRANSPORT SECURED UPRIGHT IN A WELL VENTILATED TRUCK. NEVER TRANSPORT IN PASSENGER COMPARTMENT OR TRUNK OF A VEHICLE. SHIPMENT OF COMPRESSED GAS CYLINDERS WHICH HAVE NOT BEEN

FILLED WITH THE OWNERS CO NSENT IS A VIOLATION OF FEDERAL LAW (49CFR PART 173.301(B)).

SARA Title III Information:EXTREMELY HAZARDOUS SUBSTANCES (EHS): NONE. THRESHOLD PLANNING QUANTITY (TPQ): NONE.

Federal Regulatory Information:40 CFR PART 65: RISK MANAGEMENT PROGRAMS FOR CHEMICAL ACCIDENT RELEASE. ACETYLENE IS A REGULATED SUBSTANCE IN QUANTITIES OF 10,000 POUNDS (4,553 KG) OR GREATER. TSCA

ACETYLENE IS LISTED ON THE TSCA I NVENTORY. State Regulatory Information:CALIFORNIA: NONE.

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