

NORTH AMERICAN CYLINDERS INC -- ACETYLENE -- 8120-00-268-3360

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Product Identification
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Product ID:ACETYLENE
MSDS Date:02/20/1996
FSC:8120
NIIN:00-268-3360
MSDS Number: BYDJK
=== Responsible Party ===
Company Name:NORTH AMERICAN CYLINDERS INC
Address:22 FAYE STREET
Box:128
City:CITRONELLE
State:AL
ZIP:36522
Country:US
Info Phone Num:205-866-5648
Emergency Phone Num:205-866-5648
CAGE:41629

=== Contractor Identification ===
Company Name:NORTH AMERICAN CARBON INC.
Address:ELK RUN AVE
Box:436
City:PUNXSUTAWNEY
State:PA
ZIP:15767
Country:US
Phone:814-938-7450
CAGE:41629
Company Name:NORTH AMERICAN CYLINDERS INC
Box:UNKNOW
CAGE:0FPR4

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Composition/Information on Ingredients
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Ingred Name:ACETYLENE
CAS:74-86-2
RTECS #:A09600000
Fraction by Wt: 95-99.6%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:ASPHYXIAN; 9394

Ingred Name:ACETONE (SARA III)
CAS:67-64-1
RTECS #:AL3150000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000PPM
ACGIH TLV:750PPM/1000STEL;9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT RELEVANT.
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:LUNGS AND CENTRAL
NERVOUS SYSTEM. ACUTE- SIMPLE ASPHYXIAN. MAY CAUSE ANESTHETIC
EFFECTS, DIZZINESS, DEEP BREATHING, NAUSEA & UNCONCIOUSNESS.
INHALATION OF ACETONE SOLVENT MAY CAUSE DIZZ INESS, RESPIRATORY
IRRITATION. ORAL:INGESTION IS UNLIKELY. EYES/ SKIN:NONE. ACETONE
CAUSES IRRITATION. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS
AT
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT
CARCINOGENS.

Effects of Overexposure:IRRITATION OF RESPIRATORY TRACT, EYES AND
SKIN;
HEADACHES, DIZZINESS, SHORTNESS OF BREATH, LOSS OF CONSCIOUSNESS,
HEADACHE, NAUSEA, VOMITING, FATIGUE, DERMATITIS

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF
RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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First Aid Measures
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First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INHALED:REMOVE TO
FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. TREAT SYMPTOMATICALLY &
SUPPORTIVELY. KEEP VICTIM WARM & QUIET. EYES:NONE NORMALLY
REQUIRED. CONSU LT A PHYSICIAN IF DIRECT CONTACT OCCURS.
IMMEDIATELY FLUSH WITH LOW PRESSURE, COOL WATER FOR AT LEAST 15
MINUTES. KEEP EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER.
INGESTION:NONE NORMALLY REQUIRED.

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Fire Fighting Measures
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Flash Point:FLAMMABLE GAS

Autoignition Temp:Autoignition Temp Text:565F

Lower Limits:2.2

Upper Limits:80 - 85

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE. COOL CYLINDERS WITH WATER SPRAY.

Fire Fighting Procedures:ONLY SAFE WAY TO EXTINGUISH FIRE IS TO STOP THE FLOW OF GAS. IF FLOW CANNOT BE STOPPED, LET FIRE BURN ITSELF OUT WHILE COOLING WITH WATER FOG. STAY UPWIND.

Unusual Fire/Explosion Hazard:EXTREMELY FLAMMABLE AND EXPLOSIVE. IT MAY

DECOMPOSE VIOLENTLY IN ITS FREE STATE UNDER PRESSURE IN EXCESS OF 15 PSIG. IT BURNS WITH AN INTENSELY HOT FLAME.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. REMOVE SOURCES OF IGNITION, HEAT, SPARKS. STOP LEAK IF YOU CAN DO IT WITHOUT RISK OR REMOVE CYLINDERS WITH SLOW LEAKS TO A REMOTE, OUTDOOR LOCATION. AVOID ENTERING AREA OF FLAMMABLE ATMOSPHERE. CALL VENDOR.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORAGE OF 2500 CUBIC FEET OR LESS IS PERMISSIBLE WITHIN BUILDING. STORAGE IN EXCESS OF 2500 CUBIC FEET SHOULD BE OUTDOORS.

Other Precautions:EXTREMELY FLAMMABLE. SECURE CYLINDER IN UPRIGHT POSITION. STORE AWAY FROM INCOMPATIBLES AND HEAT. ACETYLENE STORED IN CYLINDER IS DISSOLVED IN ACETONE. INSPECT FUSE PLUGS ON TOP & BOTTOM OF CYLINDERS. POST "NO SMOKING OR OPEN FLAME" SIGNS.

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

Respiratory Protection:OXYGEN-DEFICIENT ATMOSPHERES ARE IN FLAMMABLE RANGE. DO NOT ENTER. IT MAY IGNITE/EXPLODE. AIR PURIFYING RESPIRATOR WILL NOT FUNCTION. POSITIVE-PRESSURE AIR LINE WITH MASK OR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IN EMERGENCIES.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW PLV.

Protective Gloves:WELDER'S GLOVES; PVC OR RUBBER IN LAB

Eye Protection:SAFETY GLASSES OR WELDER GOGGLES

Other Protective Equipment:LEATHER SLEEVES, LEATHER APRON AND OTHER STANDARD PROTECTIVE EQUIPMENT FOR CUTTING AND WELDING, SAFETY SHOES

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

USE ONLY IN WELL VENTILATED AREAS. HANDLE CYLINDERS WITH CARE. OPEN AND

CLOSE VALVES SLOWLY.

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

HCC:G2

Boiling Pt:B.P. Text:-119F,-84C

Melt/Freeze Pt:M.P/F.P Text:-113F,-81C

Vapor Pres:32830

Vapor Density:0.906

Spec Gravity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS, FLAMMABLE GAS - ODORLESS WHEN PURE, GARLIC-LIKE ODOR IF IMPURE

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:NO

OXIDIZERS (OXYGEN & HALOGENS), COPPER, BRASS, COPPER SALT, MERCURY & MERCURY SALT, SILVER & SILVER SALT, NITRIC ACID

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

PRESSURE IN EXCESS OF 15 PSIG. AVOID SHOCKS TO CYLINDER. AVOID HEAT.

Hazardous Decomposition Products:ACETYLENE WILL DECOMPOSE INTO ELEMENTAL CARBON AND HYDROGEN. CARBON MONOXIDE MAY BE FORMED FROM BURNING.

Conditions to Avoid Polymerization:TEMPERATURE OF 250F AND MORE AT HIGH

PRESSURE OR CATALYST

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

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES (RESIDUAL GAS) IN CYLINDERS. RETURN CYLINDERS WITH VALVE PROTECTION CAP IN PLACE TO MANUFACTURER FOR PROPER DISPOSAL.

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