

## **ACETYLENE**

### **MSDS Number**

BSYKT

### **National Stock Number**

6830-01-024-4413

### **Product Name**

ACETYLENE

### **Manufacturer**

MG INDUSTRIES

### **Product Identification**

Product ID:ACETYLENE  
MSDS Date:11/20/1991  
FSC:6830  
NIIN:01-024-4413  
MSDS Number: BSYKT

### **Responsible Party**

MG INDUSTRIES  
2460 BOULEVARD OF THE GENERALS  
VALLEY FORGE , PA 19482  
US  
Emergency Phone: 800-424-9300 (CHEMTREC)  
Info Phone: 800-362-0534  
Cage: 08772

### **Contractor**

MG INDUSTRIES  
MALVERN, PA 19355-1424  
US  
610-695-7400 / 610-695-7449  
Cage: 08772

### **Ingredients**

25000 PPM NIOSH REC  
CAS: 74-86-2  
RTECS: AO9600000  
Fraction By Weight: >99%  
ACGIH TLV: ASPHYXIA NT

INGS 3, 4, 5, 6  
RTECS: 9999999ZZ

AIR

PHOSPHINE

CAS: 7803-51-2

RTECS: SY7525000

Fraction By Weight: TRACE

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

ARSINE

CAS: 7784-42-1

RTECS: CG6475000

Fraction By Weight: TRACE

HYDROGEN SULFIDE

CAS: 7783-06-4

RTECS: MX1225000

Fraction By Weight: TRACE

EPA Report Quantity: 100 LBS

DOT Report Quantity: 100 LBS

ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK INVOLVED

RTECS: 9999999ZZ

IN FLOODING AMTS AS FOG. COOL CNTNRS W/FLOODING AMTS

RTECS: 9999999ZZ

RADIUS OF 1500 FT FOR UNCONTROLLABLE FIRES. CONSIDER

RTECS: 9999999ZZ

CHARGES RSLTING IN SPARKS W/POSS IGNIT.

RTECS: 9999999ZZ

RESP, AIR HUNGER, IMPAIRED MENTAL

RTECS: 9999999ZZ

VOMIT, PROSTRATION, METABOLIC ACIDOSIS, IMPAIRMENT

RTECS: 9999999ZZ

BRONCH & STOM ULCER BELIEVED TO

RTECS: 9999999ZZ

EXPOS CAUSED SLIGHT CAPILLARY HYPEREMIA IN EXPT

RTECS: 9999999ZZ

OXYACETYLENE TORCH IN WELDING. SUBSIDED W/IN 6 HR.

RTECS: 9999999ZZ

EFTS, WASH W/WATER/NORMAL SALINE & GET MED

RTECS: 9999999ZZ

TREAT SYMPTOMATICALLY & SUPPORTIVELY & GET MED ATTN.

RTECS: 9999999ZZ

COOL, WELL-VENT, NONCOMBUST PLACE, AWAY

RTECS: 9999999ZZ

LIGHTNING & STATIC ELECTRICITY. STORE CYLS UPRIGHT.

RTECS: 9999999ZZ

W/FULL FACEPIECE HELMENT/HOOD OPERATED IN

RTECS: 9999999ZZ

PRESS-DEMAND MODE/OTHER POS PRESS MODE. FIRE FIGHT &

RTECS: 9999999ZZ

PRESS-DEMAND MODE/OTHER POS-PRESS MODE. ANY

RTECS: 9999999ZZ

OTHER POS-PRESS MODE IN COMBINATION W/AUXILIARY SCBA

RTECS: 9999999ZZ

## Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:TARGET EFTS:ASPHYX; CNS DEPRESS.

STIMULANTS (EG EPINEPHRINE/EPHEDRINE) MAY INDUCE VENTRICULAR FIBRILLATION. INHAL:ASPHYX/NARC. 2.5% IN AIR RPT NONTX. SLIGHT INTOX W/REVERSIBLE NARCOS MAY OCCUR @ 10%; INTOXICATION W/DYSPNEA, HDCH & STAG GAIT @ 20% LOSS OF COORDINATION @ 30%; LOSS OF CONSC @ 33-35%. (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:COMPLETE ANESTH, INCR BLOOD PRESS, NARCOS & STIMULATED RESP MAY OCCUR @ CONC UP TO 80%. OTHER EFTS MAY INCLUDE MILD GASTRIC SYMP, DIZZ, MENTAL CONFUSION, EMOTIONAL INSTABILTY, HYPERCAPNIA & M YOCARDIAL SENSIT. ASPHYX MAY OCCUR. IMPURITIES MAY BE RESPONSIBLE FOR SYMP BEFORE ASPHYX LEVEL REACHED:RAPID (ING 11)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:INHAL:MOVE TO FRESH AIR IMMED. IF BRTHG STOPPED, GIVE ARTF

RESP. MAINTAIN AIRWAY & BLOOD PRESS & ADMIN O\*2 IF AVAIL. KEEP PERSON WARM & @ REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. ADMIN OF O\*2 SHLD BY PERFORMED BY QUALIFIED PERS. GET MEDATTN IMMED. SKIN:UNLIKELY TO BE REQUIRED. IF ADVERSE EFTS, WASH W/LG AMTS WATER & MILD SOAP & GET MED ATTN. EYES:UNLIKELY TO BE REQUIRED. IF ADVERSE (ING 16)

## Fire Fighting

Flash Point:NOT KNOWN

Lower Limits:2.5%

Upper Limits:100%

Extinguishing Media:DRY CHEM/CARBON DIOXIDE. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures:MOVE CNTNR IF CAN DO W/OUT RISK. MASSIVE FIRE IN CARGO AREA:USE UNMANNED HOSE HOLDER/MONITOR NOZZLES; IF IMPOSSIBLE W/DRAW FROM AREA & LET FIRE BURN. (SUPDAT)

Unusual Fire/Explosion Hazard:DANGEROUS EXLO HAZ WHEN EXPOS TO HEAT/FLAME. VAP-AIR MIX EXPLO. DUE TO LOW ELECTROCONDUCTIVITY OF SUBSTANCE, FLOW/AGITATION MAY GENERATE ELECTROSTATIC (ING 10)

## Accidental Release

Spill Release Procedures:SHUT OFF IGNIT SOURCES. STOP LEAK IF CAN DO W/OUT RISK. USE H\*2O SPRAY TO REDUCE VAP. ISOLATE AREA TILL GAS DISPERSED. NO SMKNG, FLAMES/FLARES IN HAZ AREA! KEEP UNNECESSARY PERS AWAY; ISOLATE HAZ AREA & DENY ENTRY. VENT CLOSED SPACES BEFORE ENTERING.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:STORE IAW 29 CFR 1910.102. PROTECT AGAINST PHYSICAL DMG. OUTSIDE/DETACHED STOR PREF. ISOLATE FROM OXIDIZING GASES, ESP CHLORINE. STORE IN (ING 18)

Other Precautions:BONDING & GROUNDING:SUBSTANCES W/LOW ELECTROCONDUCTIVITY WHICH MAY BE IGNIT BY ELECTROSTATIC SPARKS SHLD BE STORED IN CNTNRS WHICH MEET BONDING & GROUNDING GUIDELINES SPECIFIED IN NFPA 77-1983. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

## Exposure Controls

Respiratory Protection:NOT APPLICABLEX RESP PROT (SELECTION BASED ON CONTAM LEVELS FOUND, SPECIFIC OPERATION, NOT TO EXCEED WORKING LIM OF RESP & JOINTLY APPRVD BY NIOSH/MSHA):ANY TYPE C SUPPLIED AIR RESP W/FULL FACEPIECE OPERATED IN PRESS-DEMAND MODE/(ING 20)

Ventilation:PROVIDE LOCAL EXHAUST/GENERAL DILUTION VENT. VENT EQUIP MUST BE EXPLOSION-PROOF.

Protective Gloves:IMPERVIOUS GLOVES RECOMMENDED.

Eye Protection:ANSI APPR CHEMICAL WORKERS GOGGLES

Other Protective Equipment:IMPERVIOUS CLOTHING IS NOT REQUIRED.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC:W/DRAW IMMED IF RISING SOUND FROM VENTING SAFETY DEVICE/ANY DISCOLORATION OF TANK DUE TO FIRE. COOL CNTNR W/WATER USING UNMANNED DEVICE UNTIL WILL AFTER FIRE IS OUT. LET TANK, W/SML TA NKS/CYLS, EXTING/ISOLATE FROM OTHER FLAMMS. ISOLATE 1/2 MILE IN (ING 7)

## Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:-119F, -84C

Vapor Pres:760 @ -84C

Vapor Density:0.90

Spec Gravity:1.1747

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:0.94

Appearance and Odor:COLORLESS GAS W/ETHEREAL ODOR WHEN PURE, GARLIC-LIKE ODOR IF IMPURE.

## Stability

Stability Indicator/Materials to Avoid: YES  
BRASS, COPPER & SALTS, FLUORINE, NITRIC ACID, OXIDIZERS, O<sub>2</sub> & OTHERS.  
COMPLETE LIST OF MATLS TO AVOID CNTCT NEHC.  
Stability Condition to Avoid: MAY DECOMPOSE EXLOSIVELY AT ELEVATED TEMPS  
& PRESS.  
Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS MAY  
INCLUDE TOX OXIDE OF CARBON.  
Conditions to Avoid Polymerization: MAY POLYMERIZE EXOTHERMICALLY ON  
CONTACT W/APPROPRIATE CATALYSTS.

## **Disposal**

Waste Disposal Methods: OBSERVE ALL FED, STATE, & LOCAL REGULATIONS. FOR  
ASSISTANCE, CNTCT DISTRICT DIRECTOR OF EPA.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.