

MG INDUSTRIES -- ACETYLENE -- 6830-01-024-4413

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Product Identification
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Product ID:ACETYLENE
MSDS Date:11/20/1991
FSC:6830
NIIN:01-024-4413
MSDS Number: BSYKT
=== Responsible Party ===
Company Name:MG INDUSTRIES
Address:2460 BOULEVARD OF THE GENERALS
Box:945
City:VALLEY FORGE
State:PA
ZIP:19482
Country:US
Info Phone Num:800-362-0534
Emergency Phone Num:800-424-9300 (CHEMTREC)
CAGE:08772

=== Contractor Identification ===
Company Name:MG INDUSTRIES
Address:3 GREAT VALLEY PKY
Box:City:MALVERN
State:PA
ZIP:19355-1424
Country:US
Phone:610-695-7400 / 610-695-7449
CAGE:08772

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Composition/Information on Ingredients
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Ingred Name:ACETYLENE (OTHER RECOMMENDED LIMIT:25000 PPM NIOSH REC
(MFR))
CAS:74-86-2
RTECS #:AO9600000
Fraction by Wt: >99%
Other REC Limits:SEE ING
ACGIH TLV:ASPHYXIAN

Ingred Name:MAY CONTAIN OTHER CONTAMINANTS: INGS 3, 4, 5, 6
RTECS #

:999999ZZ

Ingred Name:AIR

Ingred Name:PHOSPHINE

CAS:7803-51-2

RTECS #:SY7525000

Fraction by Wt: TRACE

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:ARSINE

CAS:7784-42-1

RTECS #:CG6475000

Fraction by Wt: TRACE

Ingred Name:HYDROGEN SULFIDE

CAS:7783-06-4

RTECS #:MX1225000

Fraction by Wt: TRACE

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:SUPDAT:ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK INVOLVED
IN FIRE. EXTING ONLY IF FLOW CAN BE STOPPED; USE WATER(ING8)

RTECS #:999999ZZ

Ingred Name:ING7:IN FLOODING AMTS AS FOG. COOL CNTNRS W/FLOODING AMTS
WATER. AVOID BRTHG TOXIC VAP. KEEP UPWIND. EVACUATE TO (ING 9)

RTECS #:999999ZZ

Ingred Name:ING 8:RADIUS OF 1500 FT FOR UNCONTROLLABLE FIRES. CONSIDER
EVACUATION DOWNWIND AREA IF MATL LEAKING. STOP GAS FLOW.

RTECS #:999999ZZ

Ingred Name:EXLO HAZ:CHARGES RSLTING IN SPARKS W/POSS IGNIT.

RTECS #:999999ZZ

Ingred Name:EFTS OF OVEREXP:RESP, AIR HUNGER, IMPAIRED MENTAL
ALERTNESS. CYANOSIS, WEAK & IRREGULAR PULSE, RA

PID FATG, NAUS,(ING

12)

RTECS #:9999999ZZ

Inged Name:ING 11:VOMIT, PROSTRATION, METABOLIC ACIDOSIS, IMPAIRMENT
OF JUDGEMENT & SENSATION, PULM EDEMA, LOSS OF CONSC, (ING 13)

RTECS #:9999999ZZ

Inged Name:ING12:COMA & DEATH.CHRONIC:BRONCH & STOM ULCER BELIEVED TO
ORIGINATE FROM CHRONIC PHOSPINE POISONING.INTERMITTENT(ING14)

RTECS #:9999999ZZ

Inged Name:ING13:EXPOS CAUSED SLIGHT CAPILLARY HYPEREMIA IN EXPT
ANIMALS. SKIN:CASE OF URTICARIA REPORTED FOLLOWING USE OF (ING 15)

RTECS

#:9999999ZZ

Inged Name:ING14:OXYACETYLENE TORCH IN WELDING. SUBSIDED W/IN 6 HR.
SYMP BELIEVED RSLT OF IMPURITIES/COMBUSTION PROD IN GAS.

RTECS #:9999999ZZ

Inged Name:FIRST AID PROC:EFTS, WASH W/WATER/NORMAL SALINE & GET MED
ATTN. INGEST:UNLIKELY TREATMENT REQ. IF ADVERSE EFTS, (ING 17)

RTECS #:9999999ZZ

Inged Name:ING 16:TREAT SYMPTOMATICALLY & SUPPORTIVELY & GET MED ATTN.

RTECS #:9999999ZZ

Inged Name:HNDLG/STOR PREC:COOL, WELL-VENT, NONCOMBUST PLACE, AWAY
FROM SOURCES OF IG

NIT & COMBUST MATLS. PROTECT AGAINST (ING 19)

RTECS #:9999999ZZ

Inged Name:ING 18:LIGHTNING & STATIC ELECTRICITY. STORE CYLS UPRIGHT.

RTECS #:9999999ZZ

Inged Name:RESP PROT:W/FULL FACEPIECE HELMENT/HOOD OPERATED IN
CONTINUOUS-FLOW MODE. ANY SCBA W/FULL FACEPIECE OPERATED IN (ING

21)

RTECS #:9999999ZZ

Inged Name:ING 20:PRESS-DEMAND MODE/OTHER POS PRESS MODE. FIRE FIGHT &
OTHER DANGEROUS CNDTNS:ANY SCBA W/FULL FACEPIECE IN (ING 22)

RTECS #:9999999ZZ

Inged Name:ING 21:PRESS-DEMA

ND MODE/OTHER POS-PRESS MODE. ANY
SUPPLIED-AIR RESP W/FULL FACEPIECE & OPERATED IN
PRESS-DEMAND/(ING23)
RTECS #:9999999ZZ

Ingred Name:ING 22:OTHER POS-PRESS MODE IN COMBINATION W/AUXILIARY SCBA
OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE.
RTECS #:9999999ZZ

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===== Hazards Identification =====

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 & STI

MULATED 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.

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

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

NTAIN 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)

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

Flash Point:NOT KNOWN

Lower Limits:2.5%

Upper Limits:100%

Extinguishing Media:D

RY 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)

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Accid
ental Release Measures =====

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.

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Handling and Storage =====

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.

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Exposure Controls/Personal Protection =====

Respiratory Pr

rotection: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 CLOT

HING 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)

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

Melt/Freeze Pt:M.P/F.P Text:-11

9F, -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 and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

BRASS, COPPER & SALTS, FLUORINE, NITRIC ACID, OXIDIZERS, O*2 & OTHERS. COMPLETE LIST OF MATLS TO AVOID CNTCT NEHC.

Stability Condition to Avoid:MAY DECO

MPOSE 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 Considerations =====

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

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iling agencies):

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