

BOC GASES A DIVISION OF BOC -- MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIX

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MSDS Safety Information
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FSC: 6830
NIIN: 00-935-1125
MSDS Date: 06/05/1998
MSDS Num: CJFWP
Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABILIZ
MFN: 01
Responsible Party
Cage: 80382
Name: BOC GASES A DIVISION OF THE BOC GROUP, INC
Address: 575 MOUNTAIN AVE
City: MURRAY HILL NJ 07974
Info Phone Number: 908-464-8100/800-424-9300 (CHEMTREC)
Emergency Phone Number: (800) 424-9300
Resp. Party Other MSDS No.: G-118
Preparer's Name: LOSS CTL (908)464-8100
Chemtrec IND/Phone: (800)424-9300
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 80382
Name: BOC GASES, A DIVISION OF THE BOC GROUP, INC
Address: 575 MOUNTAIN AVENUE
City: MURRAY HILL NJ 07974
Phone: 908-464-8100

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Item Description Information
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Item Name: METHYLACETYLENE PROPADIENE
Specification Number: UNKNOWN
Type/Grade/Class: NONE
Unit of Issue: LB
UI Container Qty: 16 OZ (DB)
Type of Container: CYLINDER

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Ingredients
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Cas: 68476-85-7
RTECS #: SE7545000
Name: LIQUEFIED PETROLEUM GAS
Percent by Wt: 58.
OSHA PEL: 1800 MG/M3;1000 PPM
ACGIH TLV: 1800 MG/M3;1000 PPM

Cas: 59355-75-8
RTECS #: UK4920000
Name: MAPP GAS; (METHYL ACETYLENE-PROPADIENE)
Percent by Wt: 44.
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PP

Health Hazards Data

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Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE: EYE EFTS: CONT W/LIQ MAY CAUSE FROSTBITE, IRRIT OR BLINDNESS. SKIN EFTS: CONT W/LIQ WILL CAUSE FROSTBITE OR IRRITATION. INGEST EFTS: INGEST IS UNLIKELY. THE EFTS OF INGEST ARE UNKNOWN. HOWEVER MINIMAL HEALTH EFTS ARE ANTICIPATED. CON SULT PHYS FOR TREATMENT OR CONT THE LOCAL POISON CONTROL CENTER. INHAL EFTS: THIS GAS MIXTURE IS CNS DEPRESSANT & IRRITANT. INHAL OF LOW CONCS MAY CAUSE EXCITEMENT & DISORIENTATION. IN HIGHER CONCS, THIS MIXTURE MAY ACT AS ASPHYXIANT SO AS TO EXCLUDE AN ADEQ SUPPLY OF OXYGEN TO THE LUNGS, CAUSING UNCONSCIOUSNESS AND POSSIBLY DEATH.EFTS OF OXYGEN DEFICIENCY (EFTS OF OVEREXP)

Signs And Symptions Of Overexposure: HLTH HAZ: RESULTING FROM SIMPLE ASPHYXIANTS MAY INCLUDE: RAPID BREATHING, DIMINISHED MENTAL ALERTNESS, IMPAIRED MUSCULAR COORDINATION, FAULTY JUDGMENT, DEPRESSION OF ALL SENSATIONS, EMOTIONAL INSTABILITY, AND FATIGUE. AS ASPHYXIATION PROGRESSES, NAUS, VOMIT, PROSTRATION, AND LOSS OF CONSCIOUSNESS MAY RESULT, EVENTUALLY LEADING TO CONVULSIONS, COMA, & DEATH. OXYGEN DEFICIENCY DURING PREGNANCY HAS PRODUCED DEVELOPMENTAL ABNORMALITIES IN HUMANS & EXPERIMENTAL ANIMALS.

First Aid: EYES: NEVER INTRODUCE OIL/OINTMENT INTO EYES W/OUT MED ADVICE! IN CASE OF FREEZING/CRYOGENIC "BURNS" BY RAPIDLY EVAPORATING LIQ. DO NOT WASH EYES WITH HOT OR EVEN TEPID WATER! REMOVE FROM SOURCE OF CONTAM. OPEN EYELIDS WIDE TO ALLOW LIQ TO EVAPORATE. IF PAIN IS PRESENT, REFER TO OPHTHALMOLOGIST FOR FURTHER TREATMENT & FOLLOW UP. IF VICTIM CANNOT TOLERATE LIGHT, PROTECT EYES W/LIGHT BANDAGE/HANDKERCHIEF. SKIN: REMOVE CONTAMD CLTHG & FLUSH AREA W/LUKEWARM WATER. DO NOT USE HOT WATER. INGEST: KEEP VICTIM CALM & WARM. NOTIFY PHYS & INFORM OF NATURE OF MATL, THE STATE (SUPDAT)

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Handling and Disposal

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Spill Release Procedures: WARNING: ANY LEAKS OF MAPP PRESENT GREAT DANGER OF EXPLO/FIRE. KEEP ALL SOURCES OF IGNIT AWAY. EVACUATE ALL PERSONNEL FROM AREA. USE APPROP PROT EQUIP. IF LEAK IS IN USER'S EQUIP, BE CERTAIN TO PURGE PIPING W/INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN CNTNR/CNTNR VALVE, CONT APPROP EMER TELEPHONE NUMBER LISTED IN INGREDIENTS OR CALL YOUR CLOSEST BOC LOCATION.

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF RESIDUAL/UNUSED QTYS. RETURN IN SHIPPING CNTNR PROPERLY LABELED, W/ANY VALVE OUTLET PLUGS/CAPS SECURED & VALVE PROT CAP IN PLACE TO BOC GASES/AUTHORIZED DISTRIBUTOR FOR PROPER DISP. DISPOSAL MUST BE I/A/W FEDERAL, STATE, AND LOCAL REGULATIONS (FP N).

Handling And Storage Precautions: ELEC CLASSIFICATION: CLASS 1, GROUP NOT SPECIFIED. EARTH BOND & GROUND ALL LINES & EQUIP ASSOC W/FUEL GAS SYS. ELEC EQUIP SHOULD BE NON-SPK & EXPLO PROOF. USE ONLY IN WELL-VENTILATED AREAS. VALVE PROT CAPS MUST REMAIN IN PLACE UNLESS CNTNR IS SECURED W/VALVE OUTLET PIPED TO USE POINT.

Other Precautions: DO NOT DRAG, SLIDE/ROLL CYLS. USE SUITABLE HAND TRUCK FOR CYL MOVEMENT. USE PRESS REGULATOR WHEN CONNECTING CYL TO LOWER PRESS (<250 PSIG) PIPING/SYS. DO NOT HEAT CYL BY ANY MEANS TO INCR DISCHARGE RATE OF PROD FROM CYL. USE CHECK VALVE/TRAP IN DISCHARGE LINE TO PVNT HAZ BACKFLOW

INTO CYL. (OTHER INFO)

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Fire and Explosion Hazard Information
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Flash Point Method: CC

Flash Point: =-97.8C, -144.F

Autoignition Temp: =454.4C, 850.F

Lower Limits: 3.0%

Upper Limits: 11.0%

Extinguishing Media: WATER FOG, DRY CHEMICAL, FOAM.

Fire Fighting Procedures: USE NIOSH APPRVD SCBA & FULL PROTECTIVE EQUIPMENT (FP N). DO NOT EXTINGUISH. KEEP CYLINDER COOL W/WATER FOG. IF FLAME IS EXTINGUISHED, REMOVE ALL SOURCES OF IGNIT & ALLOW CONTENTS TO VENT. INCREASE VENTILATION TO PREVENT FLAMMABLE MIXTURE FORMATION.

Unusual Fire/Explosion Hazard: THIS GAS IS HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE TO AN IGNITION SOURCE. MAY BURN WITH AN ALMOST INVISIBLE FLAME IN BRIGHT LIGHT. HAZARDOUS COMBUSTION PRODUCTS: ACETYLIDES.

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Control Measures
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Respiratory Protection: RESP PROT IS NOT NORMALLY REQUIRED. DO NOT ENTER AREA OF HIGH MAPP CONCENTRATION UNTIL FIRST PURGING WITH INERT GAS AND THEN VENTILATING WITH AIR. NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation: PROVIDE LOC EXHST/MECH VENT IF WELDING/CUTTING IN CONFINED AREA. IF THIS GAS IS HANDLED ROUTINELY WHERE POTENTIAL FOR LEAKS EXIST, (TOX INFO)

Protective Gloves: LEATHER GLOVES.

Eye Protection: ANSI APPRVD CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPRVD EYE WASH & DELUGE SHOWER (FP N). APRON WHEN WELDING, CUTTING OR BRAZING.

Supplemental Safety and Health: FIRST AID PROC: OF VICTIM & ANY OBSERVED SIGNS/SYMP. INHAL: PROMPT MED ATTN IS MANDATORY IN ALL CASES OF OVEREXP. RESCUE PERSONNEL SHOULD BE EQUIPPED W/NIOSH APPRVD SCBA. CONSCIOUS PERSONS SHOULD BE ASSISTED TO UNCONTAMINATED AREA & INHALE FRESH AIR. QUICK REMOVAL FROM CONTAMINATED AREA IS MOST IMPORTANT. UNCON (OTHER INFO)

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Physical/Chemical Properties
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Boiling Point: >-47.8C, -54.F

B.P. Text: -54 TO -10F

Melt/Freeze Pt: =-120.C, -184.F

Vapor Pres: 97 PSIA @ 70F

Spec Gravity: 0.571 (LIQUID)

Solubility in Water: SLIGHT

Appearance and Odor: A COLORLESS GAS WITH A CHARACTERISTIC, UNPLEASANT ODOR.

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: HIGH TEMPERATURES. PRODUCT WILL START TO DECOMPOSE AT 815F(435C).

Materials To Avoid: NATURAL RUBBER, COPPER ALLOYS ABOVE 65% COPPER, SILVER, MERCURY, HALOGENS, ACIDS, METALLIC SODIUM, POTASSIUM, POTASSIUM PERMANGANATE.

Hazardous Decomposition Products: MAY PRODUCE ACETYLIDES WHEN IN CONTACT WITH SILVER, MAGNESIUM, OR COPPER ALLOYS ABOVE 65% COPPER.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NONE.

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Toxicological Information
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Toxicological Information: NO DATA PROVIDED. OTHER PREC: IN THE STOR/ USE AREA. THIS FUEL GAS SHOULD NOT BE HANDLED/ USED IN METALS WHICH FORM ACETYLIDES, SUCH AS COPPER, SILVER, MAGNESIUM OR THEIR ALLOYS. FOR ADDL RECS CONSULT COMPRESSED GAS ASSOCIATION PAMPHLET P-1. NEVER CARRY A COMPRESSED GAS CYLINDER OR CNTNR OF GAS IN CRYOGENIC LIQ FORM IN ENCLOSED SPACE SUCH AS CAR TRUNK, VAN/STATION WAGON. LEAK CAN RSLT IN FIRE, EXPLO, ASPHY/TOXIC EXPOSURE. VENT: ALL ELEC EQUIP MUST BE RATED FOR USE IN POTENTIALLY FLAM ATMOSPHERES. CONSULT NATIONAL ELECTRIC CODE FOR DETAILS.

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Ecological Information
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Ecological: NO DATA GIVEN.

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MSDS Transport Information
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Transport Information: PARAMETER: PROPER SHIPPING NAME: U.S. DOT: METHYL ACETYLENE & PROPADIENE MIXTURES, STABLIZED. CANADA TDG: METHYL ACETYLENE & PROPADIENE MIXTURES, STABLIZED. US DOT/CANADA TDG: HAZARD CLASS: 2.1. ID #: UN 1060. SHIPPING LABEL: FLAMMABLE GA S. NOTE: SEPTEMBER 23, 1992 REVISION UPDATED DOT SHIPPING INFORMATION AND DISPLAYED REGISTERED TRADEMARKS FOR THE MAPP COMPONENTS.

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Regulatory Information
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Sara Title III Information: SARA TITLE III - HAZARD CLASSES: ACUTE HEALTH HAZARD. FIRE HAZARD.

Federal Regulatory Information: OTHER INFORMATION: COMPRESSED GAS CYLINDERS SHALL NOT BE REFILLED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER. SHIPMENT OF A COMPRESSED GAS CYLINDER WHICH HAS NOT BEEN FILLED BY THE OWNER OR WITH HIS/HER (WRITTEN) CONSENT IS A VIOLA TION OF TRANSPORATION REGULATIONS.

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Other Information
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Other Information: SUPDAT: PERSONS SHOULD BE MOVED TO UNCONTAMD AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION & SUPPLEMENTAL OXYG. FURTHER TREATMENT SHOULD BE SYPTOMATIC & SUPPORTIVE. OTHER PREC: PROTECT CYLS FROM PHYSICAL DMG. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS & EMER EXITS. DO NOT ALLOW TEMP WHERE CYLS ARE STORED TO EXCEED 125F(52C). CYLS SHOULD BE SEGREGATED. USE "FIRST-IN-FIRST-OUT" INVENTORY SYS TO PVNT FULL CYLS FROM BEING STORED FOR EXCESS PERIODS OF TIME. POST "NO SMOKING OR OPEN FLAMES" SIGNS IN STORAGE OR USE AREA. THERE SHOULD BE NO SOURCES OF IGNIT (TOX INFO)

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Transportation Information
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Responsible Party Cage: 80382
Trans ID NO: 147040
Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABILIZ
MSDS Prepared Date: 06/05/1998
Review Date: 08/05/1999
MFN: 1
Multiple KIT Number: 0

Unit Of Issue: LB
Container QTY: 16 OZ (DB)
Type Of Container: CYLINDER

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Detail DOT Information
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DOT PSN Code: GIL
DOT PSN Modifier: FLAMMABLE COMPRESSED GAS, SEE COMPRESSED OR LIQUEFIED
GAS, FLAMMABLE, ETC.

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Detail IMO Information
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IMO PSN Code: JQH
IMO Proper Shipping Name: METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED
IMDG Page Number: 2157
UN Number: 1060
UN Hazard Class: 2(2.1)
IMO Packaging Group: -
Subsidiary Risk Label: -
EMS Number: 2-07
MED First Aid Guide NUM: 310

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Detail IATA Information
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IATA PSN Code: QJT
IATA UN ID Num: 1060
IATA Proper Shipping Name: METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED
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IATA UN Class: 2.1
IATA Label: FLAMMABLE GAS
Packing Note Passenger: FORB
Max Quant Pass: FORB
Max Quant Cargo: 150KG
Packaging Note Cargo: 200
Exceptions: A1

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Detail AFI Information
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AFI PSN Code: QJT
AFI Proper Shipping Name: METHYL ACETYLENE AND PROPANDIENE MIXTURES,
STABILIZED
AFI Hazard Class: 2.1
AFI UN ID NUM: UN1060
Special Provisions: P4
Back Pack Reference: A6.3, A6.5

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HAZCOM Label
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Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABILIZ
Cage: 80382
Company Name: BOC GASES, A DIVISION OF THE BOC GROUP, INC
Street: 575 MOUNTAIN AVENUE
City: MURRAY HILL NJ
Zipcode: 07974
Health Emergency Phone: (800) 424-9300
Label Required IND: Y
Date Of Label Review: 03/26/1999

Status Code: A
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: Severe
Reactivity Hazard: None

Hazard And Precautions: FLAMMABLE. ACUTE: EYE: LIQ MAY CAUSE FROSTBITE, IRRIT/BLINDNESS. SKIN: LIQ WILL CAUSE FROSTBITE/IRRIT. INGEST: UNLIKELY. EFTS UNKNOWN. HOWEVER MINIMAL HLTH EFTS ARE ANTIC. INHAL: GAS MIX IS CNS DEPRESS & IRRITANT. LOW CONCS MAY CAUSE EXCIT EMENT & DISORIENTATION. HIGHER CONCS MAY ACT AS ASPHY SO AS TO EXCLUDE AN ADEQ SUPPLY OF OXYGEN TO LUNGS, CAUSING UNCON & POSSIBLY DEATH. EFTS OF OXYG DEFICIENCY INCL RAPID BRTHG, DIMINISHED MENTAL ALERTNESS, IMPAIRED MUSC COORDINATION, FAU LTY JUDGMENT, SENSATION DEPRESS, EMOTIONAL INSTAB, & FATIGUE. CHRONIC: OXYG DEFICIENCY DURING PREGNANCY HAS PRDCD DEVELOPMENTAL ABNORMS IN HUMANS & EXPERIMENTAL ANIMALS.

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