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

MSDS Safety Information

FSC: 6830
NIIN: 00-935-1125
MSDS Date: 06/05/1998
MSDS Num: CJFWP
Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABILIZ

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

Contractor Summary

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

Item Description Information

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

Ingredients

Cas: 68476-85-7
RTECS #: SE75450000
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 #: UK49200000
Name: MAPPGAS; (METHYL ACETYLENE-PROPADIENE)
Percent by Wt: 44.
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PP
Health Hazards Data

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. CONSULT 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 Symtoms 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/CYROGENIC "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 CONTAM CLTHG & FLUSH AREA W/LUKEWARM WATER. DO NOT USE HOT WATER.

Handling and Disposal

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 R EPAIRS. IF LEAK IS IN CNTNR/CNTNR VALVE, CONT APPROP EMER TELEPHONE NUMBER LISTED IN INGREDS OR CALL YOUR CLOSEST BOC LOCATION.

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF RESIDUAL/UNUSED QTYS. RETURN IN SHIPPING CNTNR PROPERLY LBLD, 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/TRA P IN DISCHARGE LINE TO PVNT HAZ BACKFLOW
INTO CYL. (OTHER INFO)

Fire and Explosion Hazard Information

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 EQUIPENT
(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.

Control Measures

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 HNDLD ROUTINELY WHERE POTNTL 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/SYMPS. 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 UNCONTAM AREA & INHALE FRES H AIR. QUICK REMOVAL
FROM CONTAM AREA IS MOST IMPORTANT. UNCON (OTHER INFO)

Physical/Chemical Properties

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.

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: HIGH TEMPERATURES. PRODUCT WILL START TO
DECOPOSE 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.

Toxicological Information

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.

Ecological Information

Ecological: NO DATA GIVEN.

MSDS Transport Information


Regulatory Information

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 VIOLATION OF TRANSPORTATION REGULATIONS.

Other Information

Other Information: SUPDAT: PERSONS SHOULD BE MOVED TO UNCONTAM AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION & SUPPLEMENTAL OXYG. FURTHER TREATMENT SHOULD BE SYPTOMATIC & SUPPORTIVE. OTHER PREC: PROTECT CYL'S FROM PHYSICAL DMG. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS & EMER EXITS. DO NOT ALLOW TEMP WHERE CYL'S ARE STORED TO EXCEED 125°F(52°C). CYL'S SHOULD BE SEGREGATED. USE "FIRST-IN-FIRST-OUT" INVENTORY SYS TO PVNT FULL CYL'S 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)

Transportation Information

Responsible Party Cage: 80382
Trans ID NO: 147040
Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABLIZ
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

Detail DOT Information

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

Detail IMO Information

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

Detail IATA Information

IATA PSN Code: QJT
IATA UN ID Num: 1060
IATA Proper Shipping Name: METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED
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

Detail AFI Information

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

HAZCOM Label

Product ID: MAPP GAS, METHYL ACETYLENE AND PROPADIENE MIXTURES, STABILIZED
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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