



MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

MESA Specialty Gases & Equipment
CARBON DISULFIDE
MATERIAL SAFETY DATA SHEET
Part Number/Trade Name: CARBON DISULFIDE 99.9%

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General Information
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Company's Name: MESA International Technologies, Inc.
Company's Address: 3619 Pendleton Avenue, Suite C
Company's City: Santa Ana
Company's State: California
Company's Country: USA
Company's Zip Code: 92704
Company's Emerg Ph #: 800-535-5053 (domestic); 352-323-3500 (international)
Company's Info Ph #: 714-434-7102
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 20JAN97
Safety Data Review Date: 18DEC00
MSDS Serial Number: CFWMD

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: CARBON DISULFIDE (SARA 302/313) (CERCLA) LD50: (ORAL, RAT)
2550 MG/KG
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: FF6650000
CAS Number: 75-15-0
OSHA PEL: 20 PPM
ACGIH TLV: 10 PPM, S

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Physical/Chemical Characteristics
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Appearance And Odor: LIQUID.
Boiling Point: 115F, 46C
Melting Point: N/A
Vapor Pressure (MM Hg/70 F): SUPDAT
Vapor Density (Air=1): 2.67
Specific Gravity: 1.266

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Fire and Explosion Hazard Data
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Flash Point: -29F, -34C
Lower Explosive Limit: 1.3%
Upper Explosive Limit: 50%

Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

Special Fire Fighting Proc: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire And Expl Hazrds: DANGER: EXTREMELY FLAMMABLE. VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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Reactivity Data
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Stability: YES

Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: OXIDIZING AGENTS, AMINES.

Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE, SULFUR OXIDES.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT RELEVANT
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Health Hazard Data
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LD50-LC50 Mixture: SEE INGREDIENT 1

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTE: HARMFUL IF SWALLOWED/INHALED/ABSORBED THRU SKIN. VAP/MIST IS IRRIT TO EYES, MUC MEMBS & UPPER RESP TRACT. CAUSES SKIN IRRIT. EXPOS CAN CAUSE DMG TO KIDNEYS, LIVER, HEART. MAY CAUSE NERVOUS SYS DISTURBS. MAY CAUSE CONVLS. CHRONIC: CARBON DISULFIDE APPEARS ON THE NAVY LIST OF OCCUP CHEM REPRO (EFTS OF OVEREXP)

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NOT RELEVANT

Signs/Symptoms Of Overexp: HLTH HAZ:HAZS. SEEK CONSULT FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST & SAFE HNDLG & EXPOS INFO (FP N). OVEREXP MAY CAUSE REPRO DISORDER(S) BASED ON TESTS W/LAB ANIMALS. LAB EXPERIMENTS HAVE SHOWN MUTAGENIC EFTS. TARGET ORGANS: EYES, FEMALE & MALE REPRO SYS, NERVES, LIVER, KIDNEYS, HEART. TARGET(SUPDAT)

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: EYES: IMMEDIATELY FLUSH EYES W/COPIOUS AMTS OF WATER FOR AT LEAST 15 MIN. SKIN: IMMEDIATELY FLUSH SKIN W/COPIOUS AMTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMD CLOTHING & SHOES. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DFCLT, GIVE OXYGEN. INGEST: WASH OUT MOUTH W/WATER PROVIDED PERSON IS CONSCIOUS. CALL MD. REMOVE & WASH CONTAMD CLTHG PROMPTLY.
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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: EVACUATE AREA. SHUT OFF ALL SOURCES OF IGNITION. WEAR NIOSH APPRVD SCBA, RUBBER BOOTS & HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE & PLACE IN CLOSED CONTAINERS FOR DISPOSAL. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL

IS HIGHLY FLAMMABLE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

Precautions-Handling/Storing: KEEP TIGHTLY CLSD. KEEP AWAY FROM HEAT, SPKS & OPEN FLAME. MAY EXPLODE WHEN HEATED. STENCH. DO NOT BREATHE VAP. DO NOT GET IN EYES, ON SKIN, ON CLTHG.

Other Precautions: CAUTION: CONTACT W/AZIDES OR ACTIVE METALS SUCH AS SODIUM, POTASSIUM, ZINC, ETC MAY CAUSE FIRES & EXPLOSION. AVOID PRLNGD/RPTD EXPOSURE. READILY ABSORBED THRU SKIN. TOXIC. IRRITANT. POSSIBLE MUTAGEN/TERATOGEN. REPRODUCTIVE HAZARD.

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Control Measures
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Respiratory Protection: WEAR APPROPRIATE NIOSH APPROVED RESPIRATOR.

Ventilation: USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves: CHEMICAL-RESISTANT GLOVES.

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

Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER (FP N). OTHER PROTECTIVE CLOTHING.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Suppl. Safety & Health Data: VP:5.73 PSI @ 20C; 19.48 PSI @ 55C. MP: <-168F,<-111C. EFTS OF OVEREXP: ORGAN DATA: LIVER (FATTY LIVER DEGENERATION). PATERNAL EFTS (SPERMATOGENESIS, PROSTATE, SEMINAL VESICLE, COWPER'S, ACCESSORY GLANDS). EFTS ON FERTILITY (POST-IMPLANTATION MORTALITY). EFTS ON EMBRYO OR FETUS (FETOTOX). EFTS ON NEWBORN (BEHAVIORAL).

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Label Data
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Label Required: YES

Technical Review Date: 18DEC00

Label Date: 11DEC00

Label Status: G

Common Name: CARBON DISULFIDE, 99.9%

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-Moderate: X

Fire Hazard-Severe: X

Reactivity Hazard-None: X

Special Hazard Precautions: EXTREMELY FLAMMABLE. ACUTE: HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. VAPOR/MIST IS IRRITATING TO EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES SKIN IRRITATION. EXPOSURE CAN CAUSE DAMAGE TO THE KIDNEYS, LIVER, HEART. MAY CAUSE NERVOUS SYSTEM DISTURBANCES. MAY CAUSE CONVULSIONS. CHRONIC: CARBON DISULFIDE APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS LIST (FP N). TARGET ORGANS: EYES, FEMALE AND MALE REPRODUCTIVE SYSTEMS, NERVES, LIVER, KIDNEYS, HEART.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y