



SAFETY DATA SHEET

Product: MARC 125 MOISTURE BARRIER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 125 MOISTURE BARRIER**

SDS DATE: 12/21/18

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
 PHONE: 402-564-7104 FAX: 403-563-1290
 EMERGENCY PHONE: InfoTrac 1-800-535-5053
 E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Penetrating lubricant.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

Physical hazards Flammable aerosols Category 1
Health hazards Reproductive toxicity (fertility) Category 2
Environmental hazards Not classified.



OSHA defined hazards Not classified

SIGNAL WORD AND HAZARD STATEMENT: DANGER: Extremely flammable aerosol. Suspected of damaging fertility.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention.

Storage Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>WT. %</u>
Distillates, Petroleum, Hydrotreated Middle	64742-46-7	20-40%
Carbon Dioxide	124-38-9	2.5-10%
Dipropylene Glycol Monomethyl Ether	34590-94-8	2.5-10%
Octamethylcyclotetrasiloxane	556-67-2	2.5-10%
Mineral Oil	64742-54-7	0.1-1%
Other components below reportable levels		40-60%

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Rinse with water. Get medical attention if irritation develops and persists.

SKIN (or hair): Wash off with soap and plenty of water. Get medical attention if needed or if you feel unwell.

INGESTION: In the unlikely event of swallowing, contact a physician or poison control center. Rinse mouth.
DO NOT INDUCE VOMITING without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

INHALATION: If symptoms develop, move person to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

MOST IMPORTANT SYMPTOMS/ EFFECTS, ACUTE & DELAYED: Direct contact with eyes may cause temporary irritation.



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INDICATION OF IMMEDIATE

MEDICAL ATTENTION AND SPECIAL TRETMENT NEEDED: Provide supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

GENERAL INFORMATION: If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO₂).

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIAL FIRE FIGHTING PROCEDURES FIRE-FIGHTING EQUIPMENT:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces SCBA.

Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor buildup. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

SPECIFIC METHODS:

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS. Avoid breathing gas.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SMALL SPILLS: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS: Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.



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OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN! READ LABEL CAREFULLY!

STORAGE: **Level 2 Aerosol.**
 Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m ³
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)		5000 ppm
		600 mg/m ³
		100 ppm

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)		5000 ppm
		150 ppm
		100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE	FORM
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m ³	
		30000 ppm	
		9000 mg/m ³	
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)		5000 ppm	
	STEL	900 mg/m ³	
		150 ppm	
		600 mg/m ³	
		100 ppm	

Biological limit values: No biological exposure limits noted for the ingredient(s).

US ACGIH Threshold Limit Values: Skin designation

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

APPROPRIATE ENGINEERING

CONTROLS/VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

RESPIRATORY PROTECTION: Chemical respirator with organic vapor cartridge and full facepiece.



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EYE/FACE PROTECTION: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

SKIN PROTECTION/PROTECTIVE GLOVES: Wear appropriate chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate thermal protective clothing, when necessary;. Use of an impervious apron is recommended.

THERMAL HAZARDS: Wear appropriate thermal protective clothing, when necessary.

WORK HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

PHYSICAL STATE: Gas. Aerosol.

COLOR: Brown

ODOR: Characteristic.

ODOR THRESHOLD: Not available.

pH: Not available.

MELTING/FREEZING POINT: Not available.

INITIAL BOILING POINT/RANGE: 596.22°F (313.45°C) estimated

FLASH POINT/METHOD USED: 134.6°F (57.0°C) estimated

EVAPORATION RATE: Not available

FLAMMABILITY (solid, gas): Not available

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS :

 Explosive limit - lower: 0.6% estimated

 Explosive limit - upper: 7% estimated

VAPOR PRESSURE (mmHg): 65 – 85 psig @ 70°F estimated

VAPOR DENSITY (AIR = 1): Not available

RELATIVE DENSITY: Not available

SPECIFIC GRAVITY (H2O = 1): 1.051 estimated

SOLUBILITY IN WATER: Not available

PARTITION COEFFICIENT, n-OCTANOL/WATER: Not available

AUTO-IGNITION TEMPERATURE: 834.8°F (466°C)

DECOMPOSITION TEMPERATURE: Not available

VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid temperatures exceeding the flash point. Contact with incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No hazardous decomposition products are known.

HAZARDOUS POLYMERIZATION: Does not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** NA

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

EYES: Direct contact with eyes may cause temporary irritation.

SKIN: No adverse effects due to skin contact are expected.

INGESTION: Expected to be a low ingestion hazard.



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INHALATION: Prolonged inhalation may be harmful.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Direct contact with eyes may cause temporary irritation.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

PRODUCT	SPECIES	TEST RESULTS
11 OZ MOISTURE BARRIER M-125 LB 12 PK (CAS Mixture)		

ACUTE

Dermal

LD50

Rabbit

4796.8486 mg/kg, 24 Hours estimated

307.6923 ml/kg, 24 Hours estimated

615.3846 ml/kg, Hours estimated

Rat

Inhalation

LC50

Rat

20960.2188 mg/m³, 4 Hours estimated

17015.3848 ppm, 8 Hours estimated

8461.5381 ppm, 7 Hours estimated

4.6031 mg/l, 4 Hours estimated

Oral

LD50

Dog

230.7692 ml/kg estimated

Rat

34722.2227 mg/kg estimated

166.1538 ml/kg estimated

COMPONENTS

SPECIES

TEST RESULTS

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

ACUTE

Dermal

LD50

Rabbit

9510 mg/kg, 24 Hours

10 ml/kg, 24 Hours

>19020 mg/kg, Hours

>20 ml/kg, Hours

Rat

Inhalation

LC50

Rat

>553 ppm, 8 Hours

>275 ppm, 7 Hours

Oral

LD50

Dog

7.5 ml/kg

Rat

5.4 ml/kg

Distillates, Petroleum, Hydrotreated Middle (CAS 64742-46-7)

ACUTE

Dermal

LD50

Rabbit

>2000 mg/kg, 24 Hours

Inhalation

LC50

Rat

7640 mg/m³, 4 Hours

1.72 mg/l, 4 Hours

Mineral Oil (CAS 64742-54-7)

ACUTE

Dermal

LD50

Rabbit

>2000 mg/kg

>2000 mg/kg, 24 Hours

Inhalation

LC50

Rat

2.18 mg/l, 4 Hours

Oral

LD50

Rat

5000 mg/kg



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*Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization
Respiratory sensitization: Not available.
Skin sensitization: This product is not expected to cause skin sensitization.
Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARD, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive toxicity: Suspected of damaging fertility.
Specific target organ toxicity-Single exposure: Not classified.
Specific target organ toxicity-Repeated exposure: Not classified.
Aspiration hazard: Not available.
Chronic effects: Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

COMPONENTS	SPECIES		TEST RESULTS
Mineral Oil (CAS 64742-54-7)			
Aquatic Crustacea	EC50	Daphnia	1000.0001 mg/L, 48 Hours
Fish	LC50	Fish	5001, 96 Hours

*Estimates for product may be based on additional component data not shown.

Persistence and degradability: No data is available on the degradability of this product.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS: Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES/UNUSED PRODUCTS: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

CONTAMINATED PACKAGING: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): AEROSOL (11 OZ.)
PROPER SHIPPING NAME: LUBRICATING OIL, GREASE OR PETROLEUM
HAZARD CLASS: N/A



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ID NUMBER: NONE
PACKING GROUP: NONE
LABEL STATEMENT: LIMITED QUANTITY

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List

TSCA (TOXIC SUBSTANCE CONTROL ACT): Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986):

Hazard Categories: Immediate Hazard – No
 Delayed Hazard – Yes
 Fire Hazard – Yes
 Pressure Hazard – Yes
 Reactivity Hazard – No

SARA 302 Extremely hazardous substance: Not listed.

SARA 311/312 HAZARD CHEMICAL: No

SARA 313 (TRI Reporting): Not regulated.

OTHER FEDERAL REGULATIONS:

CLEAN AIR ACT (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

CLEAN AIR ACT (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

SAFE DRINKING WATER ACT (SDWA): Not regulated.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = *2
 Flammability = 2
 Reactivity = 0
 Other = -
 Protection = X
 *=CHRONIC

REVISION DATE: 12/21/18

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.