



SAFETY DATA SHEET

Product: **MARC 121 STRIKE FORCE FOAM CLEANER**

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 121 STRIKE FORCE FOAM CLEANER**

SDS DATE: 06/18/2020

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 Columbus, NE 68602-0927

PHONE: 402-564-7104 FAX: 402-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Degreaser.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol-Category 1; Liquefied Gas; Eye Irritant-Category 2A; Skin Sensitization-Category 1B.

HAZARD STATEMENTS: DANGER - Extremely Flammable Aerosol. Contains gas under pressure; May explode if heated. Causes eye irritation. May cause an allergic skin reaction. This product contains the following percentage of chemicals of unknown toxicity: 0%.



PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and 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. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear eye protection and protective gloves. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local, state, and federal law.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
d-Limonene	5989-27-5	1% - 5%
Propane	74-98-6	1% - 5%
N-Butane	106-97-8	1% - 5%
Diethylene Glycol n-Butyl Ether	112-34-5	5% - 10%
Petroleum Distillates, Hydrotreated light	64742-47-8	1% - 5%
4-Nonylphenol branched, ethoxylated	127087-87-0	1% - 3%

Specific percentages may be claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention immediately.

SKIN: Wash skin thoroughly with soap and water. Seek medical attention if irritation develops.

INGESTION: Rinse mouth. **DO NOT INDUCE VOMITING** unless directed to do so by medical authority. Seek medical attention immediately.

INHALATION: Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing, qualified personnel should administer artificial respiration. Seek medical attention if irritation persists.

ACUTE HEALTH HAZARDS: EYES - redness, tearing, blurred vision. **CHRONIC HEALTH HAZARDS:** May be toxic to kidneys and liver.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide (CO₂).

UNSUITABLE EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations. Use water spray to cool containers exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Absorb spill with non-combustible material such as vermiculite, sand or earth.

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not puncture container, wrap container and place in trash collection.

RCRA STATUS: Waste likely considered non-hazardous under RCRA. However, product should be fully characterized prior to disposal (40 CFR 261).

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

OTHER PRECAUTIONS: Keep out of the reach of children. **INCOMPATIBILITY:** Strong oxidizing agents, strong reducing agents, acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
d-Limonene	Not Established	Not Established
Propane/N-Butane	1000ppm	1000ppm
4-Nonylphenol branched, ethoxylated	Not Established	Not Established
Diethylene Glycol n-Butyl Ether	Not Established	25 ppm
Petroleum Distillates, Hydrotreated light	Not Established	200 mg/m ³

ENGINEERING CONTROLS/VENTILATION: Use only in well ventilated areas. Local ventilation/exhaust preferred.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (section VIII) are exceeded. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses and chemical resistant gloves.

ADDITIONAL MEASURES: Wash hands thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Foam
COLOR:	White
ODOR:	Citrus scent.
ODOR THRESHOLD:	N/D
BOILING POINT (Initial):	>212°F (100°C)
FREEZING POINT:	N/D
FLAMMABILITY (solid, gas):	Extremely Flammable Aerosol
FLASH POINT/METHOD USED:	N/D
AUTO-IGNITION TEMPERATURE:	N/D
LOWER FLAMMABILITY LIMITS:	N/D
UPPER FLAMMABILITY LIMITS:	N/A
VAPOR PRESSURE (mmHg):	N/A
VAPOR DENSITY (AIR = 1):	N/D
EVAPORATION RATE:	Slow
SPECIFIC GRAVITY (H₂O = 1):	0.90 – 1.00
pH:	11 – 12
SOLUBILITY IN WATER:	92%
PARTITION COEFFICIENT, n-OCTANOL/WATER:	N/D
VOLATILE ORGANIC COMPOUNDS (VOC):	9.9%
DIELECTRIC STRENGTH (Volts):	N/A
DECOMPOSITION TEMPERATURE:	N/D
VISCOSITY:	N/D

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None Known.

CHEMICAL STABILITY: Stable.

POSSIBLE HAZARDOUS REACTIONS: None Known.

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong reducing agents, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.



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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Diethylene Glycol n-Butyl Ether (112-34-5) LD50 (Oral, Rat): 3950 - 9740 mg/kg, (Mouse) 12,400 mg/kg, (Guinea Pig) 3000 - 4970 mg/kg, (Rabbit) 4450 mg/kg; LD50 (Skin, Rabbit): 10,300 mg/kg, (Guinea Pig) 31,700 mg/kg, (Mouse & Rat) 5940 mg/kg; LC50 (Inhalation, Rat): 960 ppm. d-Limonene (5989-27-5) LD50 (Oral, Rat) 4400 mg/kg (Mouse) 5600 mg/kg; LD50 (Dermal, Rabbit) 5000 mg/kg. Isoparaffinic Hydrocarbon (64742-47-8) LD50 (Oral, Rat) >5000 mg/kg; LD50 (Dermal, Rabbit) >2000 mg/kg.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin.

EYES: May cause irritation, redness.

INGESTION: May cause gastrointestinal irritation, nausea, diarrhea, vomiting.

INHALATION: Causes mild irritation to the respiratory tract.

SKIN: May cause irritation, localized defatting.

MEDICAL CONDITION AGGRAVATED: None known.

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision.

CHRONIC HEALTH HAZARDS: May be toxic to kidneys and liver.

CARCINOGENICITY-- OSHA: No; ACGIH: No; NTP: No; IARC: No; OTHER: N/A

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Diethylene Glycol n-Butyl Ether (112-34-5) LC50 (Lepomis macrochirus, 96hr) 1,300 mg/L; LC50 (Leuciscus idus, 48hr) > 1,000 mg/L; EC50 (Daphnia magna, 48hr) > 100 mg/L; IC50 (Green Algae, 24hr) 100 mg/L; LC50 (Pseudomonas Putida, 16hr) 1,170 mg/L. Isoparaffinic Hydrocarbon (64742-47-8) Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility. May adsorb to sediments and possibly cause toxic effects to organisms.

PERSISTENCE AND DEGRADABILITY: This product is biodegradable.

BIOACCUMULATIVE POTENTIAL: This product is not expected to bioaccumulate.

MOBILITY IN SOIL: This product is mobile in soil.

OTHER ADVERSE EFFECTS: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate or reuse container.

RCRA STATUS: Waste likely considered non-hazardous under RCRA. However product should be fully characterized prior to disposal (40 CFR 261).

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): AEROSOLS

PROPER SHIPPING NAME: CLEANING COMPOUND

HAZARD CLASS: N/A. **ID NUMBER:** N/A. **PACKING GROUP:** N/A. **LABEL STATEMENT:** LIMITED QUANTITY.

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: None. **SARA 313 REPORTABLE INGREDIENTS:** Diethylene Glycol n-Butyl Ether (DB) (112-34-5)

CLEAN WATER ACT: None. **STATE REGULATIONS:** California Proposition 65: None Distillates, Petroleum, Hydrotreated, Light (64742-47-8) RTK - PA, NJ, RI. Diethylene Glycol n-Butyl Ether (112-34-5) RTK - PA, NJ. **INTERNATIONAL REGULATIONS:** Diethylene Glycol n-Butyl Ether (112-34-5): European Union - EINECS, Australia - AICS, Japan - ENCS, Korean - ECL, (WHMIS) Canada

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1; Flammability = 2; Reactivity = 0; Other = None; Protection = A

REVISION DATE: 06/18/2020

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

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