



# SAFETY DATA SHEET

## Product: MARC 132 MOSQUITO REPEL

Form R04132

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 132 MOSQUITO REPEL**

SDS DATE: 05/30/2023

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: Insect repellent.

PREPARED BY: MARC

### SECTION 2: HAZARDS IDENTIFICATION

**CLASSIFICATIONS:** Flammable Aerosol - Category 2, Gases Under Pressure-Liquefied Gas, Skin Irritant: Category 2. Eye Irritant: Category 2A, Skin Sensitization: Category 1, Carcinogenicity: Category 2, Specific Target Organ Toxicity (Single Exposure): Category 3.



**HAZARD STATEMENT(S)**-- Warning: Flammable Aerosol. Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause drowsiness or dizziness. This product contains the following percentage of chemicals of unknown toxicity: N/A. **PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames or 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 protective gloves, protective clothing and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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 advice or attention. Avoid breathing mist, vapors or spray. Contaminated work clothing must not be allowed out of the workplace. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention. Use only outdoors or in a well-ventilated area. In inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Dispose of contents and container in accordance with local, state and federal regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Isopropanol	67-63-0	35 - 45
Propane	74-98-6	5 - 10
n-Butane	106-97-8	15 - 20
n-Octyl bicycloheptenedicarboximide	113-48-4	5.0
N, N-diethyl-m-toluamide	134-62-3	22.56
Di-n-propyl isochlormeronate	136-45-8	2.5
Acetone	67-64-1	3 - 7

The exact percentages of composition have been withheld 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 advice or attention. **INGESTION:** Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention. **INHALATION:** Move to fresh air. If breathing is difficult, administer oxygen. If heartbeat or breathing seem irregular, seek immediate medical attention. **SKIN:** Wash exposed areas of the body with soap and water. Seek medical attention if irritation develops. **ACUTE HEALTH HAZARDS:** Causes eye irritation including redness, tearing, and pain. Causes skin irritation including redness, burning and drying/cracking. Prolonged and repeated inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. **CHRONIC HEALTH HAZARDS:** May cause damage to the following organs: kidneys, liver, skin, CNS depression. Long-term exposure may cause dermatitis. **NOTE TO PHYSICIAN:** Treatment of overexposure should be directed toward the control of symptoms and the clinical condition.

### SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, alcohol foam, alcohol-resistant foam, or carbon dioxide. Water may be ineffective. **UNSUITABLE EXTINGUISHING MEDIA:** Water spray/stream. **SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self-Contained breathing



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Apparatus with a full-face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting. **UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 120 °F may cause bursting. Vapors heavier than air will settle in low lying areas and may travel to source of ignition and flash back. Keep away from heat, sparks, open flames and other sources of ignition. **HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, nitrogen.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment. **SPILL:** Contain Spill. Use absorbent material such as vermiculite for large spills. Small spills may be wiped up using wiping material. **WASTE DISPOSAL:** Dispose of in accordance with local, State and Federal regulations. Wrap empty containers in newspaper and dispose properly. **RCRA STATUS:** Liquid could be classified as D001 under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

### SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Keep away from heat, open flames, or other sources of ignition. Do not inhale mist or vapor. Store in a cool, dry area. Do not use or store with strong oxidizers. 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. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health. **INCOMPATIBILITY:** Strong acids, strong oxidizing agents, some plastics. Strong alkalis.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
N, N-diethyl-m-toluamide	Not Established	Not Established
Isopropyl alcohol	400 ppm	10 ppm
Propane/n-Butane	1000 ppm	1000 ppm
Acetone	1000 ppm	250 ppm
n-Octyl bicycloheptene dicarboximide	Not Established	Not Established
Di-n-propyl isocinchomeronate	Not Established	Not Established

**ENGINEERING CONTROLS/VENTILATION:** Ambient ventilation suitable, forced ventilation should not be required. **RESPIRATORY PROTECTION:** Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded. **PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses. **ADDITIONAL MEASURES:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective clothing to prevent repeated or prolonged contact with product. Wash hands thoroughly after handling.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear aerosol spray
<b>COLOR:</b>	Light amber.
<b>ODOR:</b>	DEET repellent.
<b>ODOR THRESHOLD:</b>	Not available.
<b>pH:</b>	Not applicable.
<b>MELTING/FREEZING POINT:</b>	Not available.
<b>BOILING POINT:</b>	165°F
<b>DECOMPOSITION TEMPERATURE:</b>	Not available.
<b>VOC CONTENT:</b>	64.5%
<b>EXPLOSIVE LIMIT RANGES:</b>	Not available.
<b>EXPLOSIVE PROPERTIES:</b>	Not available.
<b>FLASH POINT/METHOD USED:</b>	Not available.
<b>EVAPORATION RATE:</b>	Not available.
<b>FLAMMABILITY:</b>	Flammable aerosol.
<b>VAPOR PRESSURE (mmHg):</b>	Not available.
<b>VAPOR DENSITY (AIR = 1):</b>	Not available.
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	0.85 – 0.89 @ 77 °F (25 °C)
<b>SOLUBILITY IN WATER:</b>	39%.
<b>VOLATILITY INCLUDING WATER:</b>	70%
<b>PARTITION COEFFICIENT: n-octanol/water:</b>	Not available.
<b>AUTOIGNITION TEMPERATURE:</b>	Not available.
<b>VISCOSITY:</b>	Not available.



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### SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** None known. **CHEMICAL STABILITY:** Stable. **CONDITIONS TO AVOID:** Temperatures greater than 122°F may cause bursting. **INCOMPATIBILITY:** Strong oxidizers, alkalis, and strong acids. **HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon. **POSSIBLE HAZARDOUS REACTIONS:** None known. **HAZARDOUS POLYMERIZATION:** N/A. **CONDITIONS TO AVOID (POLYMERIZATION):** N/A.

### SECTION 11: TOXICOLOGICAL INFORMATION

**Isopropyl alcohol (67-63-0):** LD<sub>50</sub> (Oral, Rat) 5045 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) 12870mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4h) 78.6 mg/L.  
**Acetone (67-64-1):** LD<sub>50</sub> (Oral, Rat) 5800 mg/kg; LD<sub>50</sub> (Dermal, Rabbit) 5000 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4hr) 20 mg/L.  
**N,N-diethyl-m-toluamide (134-62-3):** LD<sub>50</sub> (Oral, Rat) ca. 1892 mg/kg; LD<sub>50</sub> (Dermal, Rat) >5000 mg/kg; LC<sub>50</sub> (Inhalation, Rat, dust/mist) 2.02 mg/L.  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin.  
**EYES:** May cause severe irritation, redness, tearing. **INGESTION:** May be harmful. **INHALATION:** May cause dizziness, disorientation, suffocation, unconsciousness with excessive or prolonged exposure. **SKIN:** May cause mild irritation if sensitive to DEET. **MEDICAL CONDITION AGGRAVATED:** Pre-existing conditions of the skin, liver, kidneys, CNS and respiratory system. **ACUTE HEALTH HAZARDS:** Causes eye irritation including redness, tearing, and pain. Causes skin irritation including redness, burning and drying/cracking. Prolonged and repeated inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. **CHRONIC HEALTH HAZARDS:** May cause damage to the following organs: kidneys, liver, skin, CNS depression. Long-term exposure may cause dermatitis. **CARCINOGENICITY:** OSHA-No, ACGIH-No NTP: No, IARC-No, OTHER-CA Prop 65.

### SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** Toxic to aquatic life with long lasting effects. Avoid release to the environment. Isopropyl alcohol (67-63-0): LC<sub>50</sub> (Fish, 96h): >100 mg/L; LC<sub>50</sub> (Fathead minnow, 96h) 9640 mg/L; EC<sub>50</sub> (Daphnia, 24h): 5102 mg/L. Acetone (67-64-1): LC<sub>50</sub> (*Oncorhynchus mykiss*, 96h) 5540 mg/L; EC<sub>50</sub> (*Daphnia magna*, 48h) 6100 mg/L; EC<sub>50</sub> (*Selenastrum quadricauda*, 8d) 7500 mg/L; EC<sub>50</sub> (*Psuedomonas putida*, 16h) 1700 mg/L. N,N-diethyl-m-toluamide (134-62-3): LC<sub>50</sub> (*Oncorhynchus mykiss*, 96h) 97 mg/L; LC<sub>50</sub> (*Selenastrum capricornutum*, 96h) 43 mg/L. Di-n-propyl isocinchomerate (136-45-8): LC<sub>50</sub> (*Oncorhynchus mykiss*) 1 mg/L; LC<sub>50</sub> (*Lepomis macrochirus*) 0.44 mg/L; EC<sub>50</sub> (*Daphnia magna*, 48h) 18 mg/L.  
**PERSISTENCE AND DEGRADABILITY:** No additional information available. **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:** Do Not Puncture or Incinerate! If empty, place in trash or offer for recycling if available. If partially filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. RCRA STATUS: Waste likely considered D001 (Ignitable waste), 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)

<b>CONTAINER SIZE/TYPE:</b>	Aerosol
<b>PROPER SHIPPING NAME:</b>	Insecticide
<b>HAZARD CLASS:</b>	NONE
<b>ID NUMBER:</b>	NONE
<b>PACKING GROUP:</b>	NONE
<b>LABEL STATEMENT:</b>	LTD QTY

### SECTION 15: REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt. **CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Acetone (67-64-1) Reportable Quantity = 5,000 lbs. Diethyl phthalate (84-66-2) Reportable Quantity = 1000 pounds.  
**SARA 311/312 HAZARD CATEGORIES:** Flammable (gases, aerosols, liquids, solids). Gas under pressure. Skin corrosion or irritation. Serious eye damage or eye irritation. Respiratory or skin sensitization. Carcinogenicity. Specific target organ toxicity (single or repeated exposure).  
**SARA 313 REPORTABLE INGREDIENTS:** Di-n-propyl isocinchomerate (136-45-8).  
**STATE REGULATIONS:** California Proposition 65: WARNING: This product can expose you to chemicals including beta-Myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).  
**Isopropyl alcohol (67-63-0):** Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CT, FL, IL, MN, NJ, PA, RI, TN. **Acetone (67-64-1):** Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: CA, DE, ID, ME, MA, MN, NJ, PA, RI, WA.  
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for



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workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label-- Caution: Harmful if swallowed. Causes moderate eye irritation. Wash hands before eating, drinking, chew gum, using tobacco or using the toilet. EXTREMELY FLAMMABLE: Contents under pressure. Do not use near fire, heated surface, sparks or flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Do not expose treated skin or clothing to fire, sparks or flame until liquid has evaporated.

### SECTION 16: OTHER INFORMATION

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

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.