



SAFETY DATA SHEET

Product: MARC 132 BUG-OFF INSECT REPELLENT

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 132 BUG-OFF INSECT REPELLENT**

SDS DATE: 01/04/2019

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: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Insect repellent.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

Classifications: Flammable Aerosols - Category 1, Gasses under pressure - Liquefied gas, Skin Sensitization - Category 1, Eye Irritation - Category 2, Specific Target Organ Toxicity (single exposure) - Category 3, Flammable Compressed Gas Irritant. **Signal Word:** Danger. **Hazard Statements.** Keep out of reach of children. Read label and SDS before use. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause drowsiness or dizziness. Causes serious eye irritation. May cause an allergic skin reaction.



Precautionary Statements. Prevention: Avoid breathing mist/spray. Use only outdoors or in a well-ventilated area. 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. Contaminated work clothing must not be allowed out of the workplace. Avoid overapplication of this product. Do not spray directly onto face; spray on hands first and then apply sparingly and avoid eyes. After returning indoors wash treated skin with soap and water. **Response,** Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. **Storage.** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. **Disposal/** Dispose of contents and container in accordance with all local, regional, and national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Isobutane	75-28-5	>= 5 <=10
Isopropanol	67-63-0	>=35<=40
Propane	74-98-6	>=10 >=20
n-Octyl bicycloheptenedicarboximide	113-48-4	=5.0
N,N-diethyl-m-toluamide	134-62-3	=25
Di-n-propyl isochromeronate	136-45-8	=2.5

*The exact percentage (concentration) of composition has 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, call a doctor for treatment advice.

SKIN: Wash skin immediately with plenty of soap and water. If skin irritation or rash occurs, call a doctor for treatment advice. Take off contaminated clothing and wash it before reuse.

INGESTION: May be harmful if swallowed. Seek medical attention immediately. **DO NOT INDUCE VOMITING!**

INHALATION: Move person to fresh air and keep comfortable for breathing. If you feel unwell, call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water spray, fog or foam.



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SPECIAL FIRE FIGHTING PROCEDURES/

PROTECTIVE EQUIPMENT: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering drain, sewers, streams or other bodies of water.

PROTECTIVE EQUIPMENT: Use personal protective equipment as stated in Section 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as **EMERGENCY PROCEDURES** above.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE! ALWAYS OBSERVE LABEL PRECAUTIONS. DO NOT TAKE INTERNALLY!**

STORAGE: Do not use or store near heat, sparks or open flame. No smoking. Exposure to temperatures above 120°F may cause bursting. Do not puncture or incinerate container. Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Isobutane
ACGIH TLV 1000 ppm

Isopropanol
ACGIH TLV 400 ppm
OSHA PEL 400 ppm

Propane
ACGIH TLV 1000 ppm

**ENGINEERING CONTROLS/
VENTILATION:** Good general ventilation required.

RESPIRATORY PROTECTION: Not required under typical use conditions. When respiratory protection is required use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI 288.2 requirements must be followed.

EYE/FACE PROTECTION: Wear safety glasses or goggles.

SKIN PROTECTION: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A



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WORK HYGIENIC PRACTICES: Always practice good housekeeping and hygienic measures. Do not eat, drink or smoke in work area. Wash hands and exposed skin promptly with soap and water after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	Clear Spray Mist.
PHYSICAL STATE:	Liquid.
COLOR:	Colorless.
ODOR:	Pleasant.
ODOR THRESHOLD:	Not available.
pH:	Not applicable.
MELTING/FREEZING POINT:	Not available.
BOILING POINT:	Not available.
DECOMPOSITION TEMPERATURE:	Not available.
OTHER INFORMATION:	VOC content (wt. %):65
OXIDIZING PROPERTIES:	Not available
EXPLOSIVE LIMIT RANGES:	Not available.
EXPLOSIVE PROPERTIES:	Not available.
FLASH POINT/METHOD USED:	50°F (liquid portion)
EVAPORATION RATE:	Not available.
FLAMMABILITY (solid, gas):	Not available.
VAPOR PRESSURE (mmHg):	Not available.
VAPOR DENSITY (AIR = 1):	Not available.
RELATIVE DENSITY:	0.9
SPECIFIC GRAVITY (H₂O = 1):	Not available.
SOLUBILITY IN WATER:	Partial.
PARTITION COEFFICIENT: n-octanol/water:	Not available.
AUTOIGNITION TEMPERATURE:	Not available.
VISCOSITY:	Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Under normal conditions of storage and use, hazardous reactions will not occur.

CHEMICAL STABILITY: Stable under normal handling and storage conditions.

CONDITIONS TO AVOID: High temperatures, open flames, sparks, welding. Vapors may ignite at temperatures exceeding flash point.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CO, CO₂.

HAZARDOUS POLYMERIZATION: N/A **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

PRIMARY ROUTE OF ENTRY: Inhalation, eye and skin contact.

ACUTE/POTENTIAL HEALTH EFFECTS:

EYES: Causes serious eye damage/eye irritation. Symptoms include stinging, tearing and redness.

SKIN: May cause skin reactions in rare cases. Symptoms may include redness and drying of skin.

INHALATION: High vapor/aerosol concentrations (>1000 ppm) are irritating to the eyes and respiratory tract. May cause nose, throat and respiratory tract irritation, coughing and headache.

INGESTION: May be harmful if swallowed.

CHRONIC/LONG TERM EFFECTS: May cause skin sensitization. Overexposure to this material through inhalation may cause Central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

TARGET ORGAN EFFECTS: Skin, central nervous system.



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REPRODUCTIVE / DEVELOPMENTAL INFORMATION: None known.

CARCINOGENIC INFORMATION: This material is not listed as a carcinogen by IARC, NTP or OSHA.

ACUTE TOXICITY VALUES:

DEET: Oral, rat: LD50 = 1892 mg/kg.

SECTION 12: ECOLOGICAL INFORMATION

DEET: LC50 Fish: Rainbow trout – 97 mg/l, 96 hr: EC50 Daphnia – 75 ppm, 48 hr.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S):	Aerosols
PROPER SHIPPING NAME:	Insecticide
HAZARD CLASS:	NONE
ID NUMBER:	NONE
PACKING GROUP:	NONE
LABEL STATEMENT:	LTD QTY

SECTION 15: REGULATORY INFORMATION

TITLE III SECTION 311/312 HAZARDOUS CATEGORIES – 40 CFR 370.2:

ACUTE (X) CHRONIC (X) FIRE (X) PRESSURE (X) REACTIVE () NOT APPLICABLE ()

T.S.C.A. STATUS (TOXIC SUBSTANCE CONTROL ACT): All chemical substances found in this product comply with the toxic Substances Control Act inventory reporting requirements.

RCRA STATUS: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes hazardous waste it would be assigned RCRA Code(s): D001

FIFRA INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Signal word: **WARNING:**

Hazard Statement: Causes substantial but temporary eye injury. Harmful if swallowed.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings:	Health =	1
	Flammability =	4
	Reactivity =	0
	Other =	-
	Protection =	A

REVISION DATE: 01/04/2019

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.