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: 08/20/2021

SUPPLIER: Mid-American Research Chemical Corp. **ADDRESS:** P. O. Box 927 • Columbus, NE 68602-0927
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RECOMMENDED USE: Insect repellent.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATIONS: Flammable Aerosols - Category 2, Liquefied Gas, Skin Irritant: Category 2. Eye Irritant: Category 2A. **HAZARD STATEMENT(S)--** Warning: Flammable Aerosol Contains gas under pressure; May explode if heated. Causes skin and serious eye irritation. 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 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash 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 attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% BY WEIGHT
Isopropanol	67-63-0	15 - 40
Propane/n-Butane	68476-86-8	10 - 30
n-Octyl bicycloheptenedicarboximide	113-48-4	5.0
N, N-diethyl-m-toluamide	134-62-3	22.56
Di-n-propyl isocichomeronate	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 seems irregular seek immediate medical attention. **SKIN:** Immediately wash with soap and water for 15 minutes. Seek medical attention if irritation develops. **ACUTE HEALTH HAZARDS**: Eyes: redness, tearing, blurred vision. **Skin:** Defatting and dermatitis. **Oral:** Abdominal irritation, nausea, vomiting, and diarrhea. **CHRONIC HEALTH HAZARDS:** None known. **NOTE TO PHYSICIAN:** 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, 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 Apparatus with a full-face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid c ontact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting. **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 COMBUSTION PRODUCTS:** Oxides of carbon.

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. W**ASTE 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: 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:** Store in a cool, dry area away from heat, sparks or flame. Read directions before using. **INCOMPATIBILITY:** Strong oxidizers, alkalies and strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Diethyl-M-Toluamide	Not Established	Not Established
Isopropyl Alcohol	400 ppm	200 ppm
Propane/n-Butane	1000 ppm	1000 ppm
Acetone	1000 ppm	500 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:** Wash hands thoroughly after handling**.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear aerosol spray
COLOR:	Light amber.
ODOR:	Pleasant, mild, light musk.
ODOR THRESHOLD:	Not available.
pH:	Not applicable.
MELTING/FREEZING POINT:	Not available.
BOILING POINT:	165°F
DECOMPOSITION TEMPERATURE:	Not available.
VOC CONTENT:	64.5%
OXIDIZING PROPERTIES:	Not available
EXPLOSIVE LIMIT RANGES:	Not available.
EXPLOSIVE PROPERTIES:	Not available.
FLASH POINT/METHOD USED:	50°F (liquid portion)
EVAPORATION RATE:	<3.
FLAMMABILITY:	Flammable aerosol.
VAPOR PRESSURE (mmHg):	>10 @ 77°F (25°C)
VAPOR DENSITY (AIR = 1):	>2
SPECIFIC GRAVITY (H2O = 1):	0.870.
SOLUBILITY IN WATER:	39%.
VOLATILITY INCLUDING WATER:	70%
PARTITION COEFFICIENT: n-octanol/water:	Not available.
AUTOIGNITION TEMPERATURE:	Not available.
VISCOSITY:	Not available.

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, alkalies, 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):
LD50 (Oral,Rat) 5045 mg/kg; LD50 (Oral, Rabbit) 5045 mg/kg; LD50 (Dermal, Rabbit) 12,800 mg/kg; LC50 (Inhalation, Rat, 8hr) 16,000 ppm.
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: None known. ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision. Skin: defatting and dermatitis. Oral: abdominal irritation, nausea, vomiting, and diarrhea. CHRONIC HEALTH HAZARDS: None known. CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not established. **BIODEGRADABILITY:** Component or components of this product are not biodegradable. **BIOACCUMULATION:** This product is not expected to bioaccumulate. **SOIL MOBILITY:** This product is mobile in soil. **OTHER ECOLOGICAL HAZARDS:** None known.

SECTION 13: DISPOSAL CONSIDERATIONS

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 14: TRANSPORT INFORMATION

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

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

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:** None. **STATE REGULATIONS--California Proposition 65:** None. **INTERNATIONAL REGULATIONS:** All components are listed or exempted.

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 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.