



SAFETY DATA SHEET

Product: MARC 231 INSECT REPELLENT TOWELETTES

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 231 INSECT REPELLENT TOWELETTES**

SDS DATE: 11/19/18

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
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EMERGENCY PHONE: InfoTrac 1-800-535-5053
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RECOMMENDED USE: Insect repellent towelettes.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Skin irritant category 2, eye irritant category 2A.

SIGNAL WORD AND HAZARD AND PRECAUTIONARY STATEMENTS: **WARNING:** Causes skin and serious eye irritation. Wash thoroughly after handling. Wear eye and face protection and protective gloves. If on skin: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before use.



POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
N, N-diethyl-m-toluamide, deet	134-62-3	15.0 – 40.0%

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops contact a physician.

SKIN: Rinse skin with water/shower. If irritation develops seek medical attention.

INGESTION: Rinse mouth with water. **DO NOT INDUCE VOMITING!** Seek medical advice.

INHALATION: Remove victim into fresh air.

GENERAL INFORMATION: If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: No additional information available.

SPECIAL FIRE FIGHTING PROCEDURES/ PROTECTION:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Do not enter fire area without proper protective equipment, including respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Reactivity: Upon combustion: CO and CO₂ are formed.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Evacuate unnecessary personnel. Isolate from fire, if possible, without unnecessary risk. Stop leak if safe to do so. Stop release. Ventilate area. Contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, as per local legislation.

PROTECTIVE EQUIPMENT: Equip cleanup crew with proper protection: protective goggles, gloves, protective clothing. See Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as Emergency Procedures above.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Prevent entry to sewers and public waters.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Comply with legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Store in a cool area. Store in a well-ventilated place. Keep container closed when not in use.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN!

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/VENTILATION: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Store in a well-ventilated place.

RESPIRATORY PROTECTION: Not required under normal use.

EYE PROTECTION: Protective goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective clothing.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after use. Do not eat, drink or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE- PHYSICAL STATE:	Premoistened wipe.
COLOR:	Liquid
ODOR:	White
ODOR THRESHOLD:	Mild odor.
pH:	No data available.
MELTING/FREEZING POINT:	No data available.
BOILING POINT:	No data available.
FLASH POINT(METHOD USED:TCC):	No data available.
RELATIVE EVAPORATION RATE (BUTYL ACETATE=1):	No data available.
FLAMMABILITY (solid, gas):	No data available.
EXPLOSIVE LIMITS:	No data available.
EXPLOSIVE PROPERTIES:	No data available.
OXIDIZING PROPERTIES:	No data available.
VAPOR PRESSURE:	No data available.
RELATIVE DENSITY :	No data available.
RELATIVE VAPOR DENSITY AT 20°C:	No data available.
SPECIFIC GRAVITY (H2O = 1):	1 g/ml – Tested using the liquid component of the towelette.



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SOLUBILITY: Liquid component is soluble in water.
 LOG POW: No data available.
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 PARTITION COEFFICIENT, n-OCTANOL/WATER: No data available.
 AUTO-IGNITION TEMPERATURE: No data available.
 DECOMPOSITION TEMPERATURE: No data available.
 VISCOSITY: No data available.
 VISCOSITY, KINEMATIC: No data available.
 VISCOSITY, DYNAMIC: No data available.
 VOC CONTENT: 0% - Tested using the liquid component of the towelette.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Upon combustion: CO and CO2 are formed.
 CHEMICAL STABILITY: No additional information available.
 CONDITIONS TO AVOID: No additional information available.
 INCOMPATIBILITY (MATERIAL TO AVOID): No additional information available.
 HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Upon combustion: CO and CO2 are formed.
 HAZARDOUS POLYMERIZATION: None CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: ORAL: Harmful if swallowed.

N, N-diethyl-m-toluamide, deet (134-62-3)

ATE CLP (oral)	500,000 mg/kg body weight
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SKIN CORROSION/IRRITATION: Causes skin irritation.
 SERIOUS EYEDAMAGE/IRRITATION: Causes serious irritation.
 RESPIRATORY OR SKIN SENSITIZATION: Not classified.
 GERM CELL MUTAGENICITY: Not classified.
 CARCINOGENICITY: Not classified.
 REPRODUCTIVE TOXICITY: Not classified.
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not classified.
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Not classified.
 ASPIRATION HAZARD: Not classified.
 SYMPTOMS/INJURIES AFTER INHALATION: None under normal use.
 SYMPTOMS/INJURIES AFTER SKIN CONTACT: Contact during a long period may cause light irritation.
 SYMPTOMS/INJURIES AFTER EYE CONTACT: Direct contact with the eyes is likely irritating.
 SYMPTOMS/INJURIES AFTER INGESTION: Gastrointestinal complaints.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: No additional information available.
 PERSISTENCE AND DEGRADABILITY: No additional information available.
 BIOACCUMULATIVE POTENTIAL: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not flush wipes. Dispose of contents/container to local/regional/national regulations.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): B, S
 PROPER SHIPPING NAME: CLOTHS, TOWELS OR TOWELING



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HAZARD CLASS: N/A
 ID NUMBER: N/A
 PACKING GROUP: N/A
 LABEL STATEMENT: NONE

SECTION 15: REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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.

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes. Use of this product may cause skin reactions in rare cases. Wash treated clothing before wearing it again. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All chemicals are listed. (See above.)

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): (See above.)

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

SECTION 16: OTHER INFORMATION

TRAINING ADVICE: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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

REVISION DATE: 11/19/18

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

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.