

MATERIAL SAFETY DATA SHEET



Bugg Products

PRODUCT:

Buggsray Insect Repellent

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Revision Date: 4/1/99

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Buggsray Insect Repellent
PRODUCT DESCRIPTION: Personal Insect Repellent
CHEMICAL NAME: Mixture
CHEMICAL FORMULA: Mixture
MANUFACTURER: Bugg Products, 7716 Mississippi Lane, Brooklyn Park, MN 55444
TELEPHONE : (612) 569-9800

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EXPOSURE LIMITS	% BY WT.
DEET [N,N-diethyl-m-toluamide]	000134-62-3	not applicable	25
Ethyl Alcohol	00064-17-5	1,000 ppm PEL (OSHA) 1,000 ppm TWA (ACGIH)	50-75

PEL = Permissible Exposure Limits.
TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).
STEL = Short Term Exposure Limit (15 min.).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING.

FLAMMABLE Liquid, Do not use near heat, open flame or any ignition source.
May cause eye injury.
Harmful if swallowed.
Avoid contact with eyes and lips.
Use sparingly on small children.
DO NOT apply to sunburned, damaged, or irritated skin.
DO NOT Allow use by small children without close adult supervision.
Avoid contamination of food and feedstuffs.

POTENTIAL HEALTH EFFECTS:

EYES: WARNING. Can cause severe irritation, tearing and blurred vision. May cause permanent damage if not rinsed out immediately.

SKIN: Can cause irritation and redness of skin, especially on areas occluded from air.(inside gloves, under watch bands etc.)

INGESTION: WARNING. Can cause stomach irritation, resulting in nausea, cramps and vomiting. In extremely rare cases, can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

INHALATION: Excessive inhalation can cause nasal and respiratory irritation. In extremely rare cases, can cause nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

CHRONIC EFFECTS: None known.

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4. FIRST-AID MEASURES

FIRST AID PROCEDURES:

- EYES:** Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.
- SKIN:** Immediately flush affected area with large amounts of water. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention.
- INHALATION:** Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and get medical attention immediately.
- INGESTION:** If swallowed. Call a physician or poison control center and get medical attention immediately. Do not induce vomiting or give anything by mouth to an unconscious person.
- CHILDREN:** If you suspect that your child is reacting to this product, wash treated skin and call your doctor.

NOTE TO PHYSICIANS: None

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 70 °F **METHOD:** TCC

This product is classified as a FLAMMABLE liquid.

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not established.

UPPER FLAMMABLE LIMIT: Not established.

AUTOIGNITION TEMPERATURE: Not established.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions, this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide and nitrogen oxides.

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Treat as a oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent

WASTE DISPOSAL METHOD: Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

7. HANDLING AND STORAGE

HANDLING: Wear an OSHA-approved safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not required when handling this product. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label

STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces or when product is heated above ambient temperature.
RESPIRATORY PROTECTION: Wearing a respirator is not required when handling this product.
SKIN PROTECTION: Wear protective clothing.
EYE PROTECTION: Wear an OSHA-approved safety glasses, goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear oily liquid
ODOR: Mild characteristic odor.
PHYSICAL STATE: Liquid.
VAPOR PRESSURE: Not available
VAPOR DENSITY: Not available
BOILING POINT: Not available
MELTING POINT: Not applicable.
SOLUBILITY IN WATER: Not available
SPECIFIC GRAVITY @ 25°C: .849

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Strong acidic or alkaline materials(strong oxidizing materials).
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce carbon dioxide, carbon monoxide and oxides of nitrogen.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES:

EYE:	Primary eye irritation(rabbit):	Data not available
SKIN:	Primary skin irritation(rabbit):	Data not available
	Dermal Sensitization(guinea pig):	Data not available
	Acute Dermal LD ₅₀ (rabbit)	Data not available
INGESTION:	Acute Oral LD ₅₀ (rat)	Data not available
INHALATION:	Acute Inhalation LC ₅₀ (rat)	Data not available

CHRONIC:

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

12. ECOLOGICAL INFORMATION

PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION: Not available
CHEMICAL DEGRADATION: Not available

TOXICITY TO USEFUL INSECTS: Not available

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13. DISPOSAL CONSIDERATIONS

RCRA / CERCLA HAZARDOUS WASTE:

INGREDIENT

None

RCRA ID#: CERCLA RQ-VALUE

DISPOSAL METHOD: We encourage you to use this product until it is empty. If you cannot use it completely, give it to someone who can. Wrap empty container in newspaper and discard in trash.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION(DOT) INFORMATION:

PROPER SHIPPING NAME: Consumer Commodity

HAZARD CLASS: ORM-D

IDENTIFICATION NUMBER(UN or NA): Not applicable

PACKING GROUP: Not applicable

INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Consumer Commodity, 9, UN 8000

IMO DESCRIPTION (IMDG CODE): Consumer Commodity, 9, UN 8000

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA TITLE III:

SECTION 302: Not listed

SECTION 313: This product contains the following toxic chemicals of the subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#:	CHEMICAL NAME:	% BY WEIGHT:
	None	

16. OTHER INFORMATION

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in sections 7 and 8 of this MSDS.

HMIS RATINGS:	Health	1
	Flammability	4
	Reactivity	1

The data contained herein is based on information currently available to Bugg Products, and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Bugg Products assumes legal responsibility.

Material Safety Data Sheet prepared by T.A. Lennan