

MATERIAL SAFETY DATA SHEET



Date-Issued: 10/03/2000
MSDS Ref. No: 002790
Date-Revised: 10/31/2005 Revision
No: 1

MOSQUITO 86 AGENT E®

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mosquito 86 Agent E®
PRODUCT DESCRIPTION: An Insecticide Concentrate for Outdoor Use.
PRODUCT EPA REG. NO. : 1021-1760- 82254

DISTRIBUTOR

Roll LLC
309 Cary Point Drive. Unit E
Cary, IL 60013
Customer Service: (800) 639-8686

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC U.S. and CANADA: (800) 424-9300
CHEMTREC All Other Areas: (703) 527-3887
Emergency Phone: (888) 740-8712

COMMENTS:

Roll LLC Hours of Operation: 8:00 am to 5:00 pm CST, 14:00 to 23:00 GMT.
For information regarding MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call the
INTERNATIONAL POISON CENTER 24 hours a day at 1-888-740-8712.

2. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	Wt. %	CAS#	EINECS#
Permethrin	9	052645-53-1	258-067-9
Petroleum Distillates	50 - 70	64742-47-8	265-149-8

COMMENTS:

Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

CAUTION. Harmful if swallowed, absorbed through the skin, or inhaled. Causes eye irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product.

Contains petroleum distillates; Vomiting may cause aspiration pneumonia.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).

SKIN ABSORPTION: Harmful if absorbed through the skin.

INGESTION: Harmful if swallowed. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe lung injury.

INHALATION: Harmful if inhaled. CHRONIC: None known.

COMMENTS:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).



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4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Contains Pyrethroids, surfactants, and Petroleum Distillates - vomiting may pose an aspiration pneumonia hazard.

For skin effects, a highly efficient therapeutic agent for Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > 93.3°C (200°F) Estimate based on most flammable ingredient.

FLAMMABLE CLASS: This product is estimated to be a Non-Combustible Liquid based on the chemicals in the formulation.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product may support combustion and may decompose to give off toxic gases such as Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxide's. Chlorine gas and Hydrogen Chloride may also be formed under fire conditions.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

SENSITIVE TO STATIC DISCHARGE: Yes, use proper bonding and/or grounding procedures.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: 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 such as sand, or vermiculite. Clean spill area of residues and absorbent.

LARGE SPILL: 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, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains pyrethroids which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.



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7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Avoid breathing vapors or spray mists of this product. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

STORAGE:

Store in a cool, dry place. Keep container closed. KEEP OUT OF REACH OF CHILDREN.

ELECTROSTATIC ACCUMULATION HAZARD:

This product contains petroleum distillates for which there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Chemical Name	EXPOSURE LIMITS					
	OSHA PEL		ACGIH TLV		Supplier OEL	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Permethrin	TWA None		None		10	
Petroleum Distillates	TWA		166 [1]		1200	

OSHA TABLE COMMENTS:

1. Based on total hydrocarbon composition.

ENGINEERING CONTROLS:

Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Take prudent precautions to avoid contact with eyes.

SKIN: Take prudent precautions to avoid contact with skin and clothing.

RESPIRATORY: Wearing a respirator is not normally required when handling this product. Use in well ventilated areas. Take prudent precautions to avoid breathing vapors and/ or spray mists of this product.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.



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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Slight odor of petroleum distillates. APPEARANCE: Pale yellow liquid.
pH: 5.35 @ 10% in water.
VAPOR PRESSURE: Not Available
VAPOR DENSITY: Heavier than air. FREEZING POINT: Not Available
MELTING POINT: Not Available
SOLUBILITY IN WATER: Not Determined
SPECIFIC GRAVITY: 0.891 (Water = 1) at 20°C (68°F) VISCOSITY: Not Determined
(VOC): <1 %

10. STABILITY AND REACTIVITY

STABLE: YES
HAZARDOUS POLYMERIZATION: NO
CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE
Acute toxicological data not available.

COMMENTS:

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

ENVIRONMENTAL DATA: Environmental data not available for this product.
ECOTOXICOLOGICAL INFORMATION: This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: If you no longer wish to use this product, give it to a friend who will use it, offer it to a garden club, or call your local solid waste agency for disposal instructions. Never pour pesticides down the toilet, drain, into the gutter, or on the ground. Unless instructed otherwise, you may discard the product in your trash.

EMPTY CONTAINER: Do not reuse empty container. Do not rinse unless required for recycling. Use rinsate for product dilution. Place container in trash or offer for recycling, if recycling option exists in your area.

RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)



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14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid, N.O.S. PRIMARY HAZARD
CLASS/DIVISION: Non-Hazardous

OTHER SHIPPING INFORMATION: This material is not regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (i.e., less than 119 Gallon's / 450 Liter's).

When shipping in Bulk-quantities (i.e., more than 119 Gallon's / 450 Liter's), please contact MGK® for the proper shipping description.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellent, Liquid, N.O.S. PRIMARY HAZARD
CLASS/DIVISION: Non-Hazardous

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Not Available

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES

313 REPORTABLE INGREDIENTS:

COMPONENT	CAS#	Max %
Permethrin	052645-53-1	9.00

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

STATE REGULATIONS

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 1% VOC's.



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16. OTHER INFORMATION

REVISION SUMMARY

Revision #: 1 This MSDS replaces the August 16, 2001 MSDS. Any changes in information are as follows: In Section 1 Prepared By [] Print CHEMTREC Phone Number 24 Hour Emergency Phone Numbers In Section 2 Emergency Overview - Immediate Concerns Chronic Effects Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects - Inhalation Potential Health Effects - Ingestion Section 2 Footnotes In Section 4 First aid - Ingestion Notes to Physician In Section 5 Flammable Class Flash Point Method Combustion Products Sensitive Static Discharge In Section 7 Handling Storage Electrostatic Accumulation Hazard In Section 8 Skin Protection Eyes-Face Protection Respiratory Protection Clothing Protection In Section 9 (Group Field) for Vapor Pressure Density (Group Field) for Freezing Point (Group Field) for Melting Point (Group Field) for Water Solubility VOC (Unit) Specific Gravity °F (Group Field) for Viscosity Viscosity (From) Viscosity (Unit) Viscosity °C (Group Field) for Percent Volatile (VOC) (wt%) (Operator) VOC (From) In Section 11 Section 11 Footnotes In Section 12 Environmental Data Ecotoxicological Information In Section 13 Empty Container Disposal In Section 14 Other DOT Shipping Information In Section 15 Regulations: State In Section 16 Section 16 Footnotes

HMIS RATING:

HEALTH: 1

FLAMMABILITY: 1

PHYSICAL HAZZARD: 1

PERSONAL PROTECTION:

HMIS RATINGS NOTES:

We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

COMMENTS:

The data contained herein are based on information currently available to Roll LLC and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Roll LLC assumes legal responsibility.

MSDS Prepared by ER
