

SAFETY DATA SHEET

Product Name: **The 10-Hour™ Insect Repellent**
Tec Laboratories, Inc.

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Issue Date: 3/12/2015
Revision No: 00

1. IDENTIFICATION

Product name: The 10-Hour™ Insect Repellent
CAS number: 134-62-3
Chemical family: Pesticide
EPA Registration No.: 50830-1
Recommended use: Topical insect repellent
Manufacturer: Tec Laboratories, Inc.
7100 Tec Labs Way SW
Albany, OR 97321
Emergency telephone number: (541) 926-4577
24 Hour Emergency Assistance: 1-800-535-5053
Email: info@teclabsinc.com

2. HAZARD(S) IDENTIFICATION

Classification: Skin corrosion/irritation, Category 2
Eye damage/irritation, Category 2A
Environmental Chronic, Category 3
Acute Toxicity Oral, Category 4

Symbol:



Signal word: Warning

Hazard statements: Causes skin irritation
Causes serious eye irritation
Harmful if swallowed
Harmful to aquatic life with long lasting effects

Precautionary statements:

Prevention (Skin corrosion/irritation)
Wash sensitive skin thoroughly after handling. Wear protective gloves when handling in bulk.
Prevention (Eye damage/irritation)
Wash hands thoroughly after handling. Wear eye protection/face protection when handling in bulk.
Prevention (Environmental Chronic)
Avoid release into the environment.

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Prevention (Acute Oral)

Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product name: The 10-Hour™ Insect Repellent

	CAS NUMBER	CHEMICAL NAME	PERCENT BY WEIGHT
Active Ingredient:	134-62-3	DEET (includes 97.83% N,N-Diethyl-m-toluidide + 0.28% related isomers and 1.89% other ingredients)	100.0%

4. FIRST AID MEASURES

Skin: If on sensitive skin: Wash with plenty of water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eyes: 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 advice/attention.

Inhalation: If inhaled: Remove to fresh, room-temperature air. If not breathing, give artificial respiration and call a physician. Seek medical attention if respiratory irritation or distress continues.

Ingestion: If ingested: contact physical of poison control center immediately.

Acute: May be harmful if ingested in sufficient quantities. Contact with skin may cause slight irritation. Moderately irritating to the eyes. High gas, vapor, or mist concentrations may be harmful if inhaled.

Delayed Effects: None known.

NOTE TO PHYSICIAN: No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical, carbon dioxide, or water spray

Exposure hazards: No data available

Fire fighting procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Normal firefighting procedures may be used

Combustion products: Combustion will produce carbon monoxide, carbon dioxide and oxides of nitrogen

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Leather shoes that have been saturated must be discarded.

Environmental precautions: Prevent releases to soils, drains, sewers and waterways.

Clean-up procedures: Eliminate all sources of ignition. Contain spilled material with sand or vermiculite and place in a chemical waste container. Ventilate the spill area. Prevent runoff from entering drains, sewers, or streams. After collection of material, flush area with water. Dispose of contents in accordance with local, regional, national or international regulations.

7. HANDLING AND STORAGE

Handling requirements: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds.

Storage conditions: Store between 59 - 86°F (15 - 30°C) in original closed container. Store in an area that is dry and well-ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: Not applicable

Respiratory protection: None required for normal use

Hand protection: None required for normal use

Eye protection: Avoid applying product in and around eyes

Skin protection: None required for normal use

When handling in bulk: NIOSH approved respirator may be used. Use general ventilation in all areas. Use local exhaust where high concentrations exist. If skin contact is likely, use gloves impervious to this product. Wear an OSHA approved face shield or safety glasses with guards.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Oily liquid

Color: Clear

Odor: Characteristic

Odor threshold: Not available

pH: Not available

Melting point: Not available

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Freezing point: -43°C (-45°C) (pour point)
Boiling point: 284.2°C @ 760 mm Hg
Flash point (closed cup): 291°F (144°C)
Evaporation rate: <1 (Butyl Acetate = 1)
Solubility(ies): 11.2 mg/ml @ 25°C in water
Flammability (solid, gas): Not available
Flammability limits: Not available
Explosion limits: Not explosive
Vapor pressure: 0.0048 mm Hg @ 32.4°C
Vapor density: 6.7 (air = 1)
Partition coefficient: Not available
Specific Gravity: 0.998 @ 20°C
Viscosity: 21.86 cS @ 20°C
Auto-ignition temperature: >200°C
Density: Not available
Decomposition temperature: Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Reactivity: Not available
Possibility of haz. reactions: Will not occur
Conditions to avoid: Uncontrolled exposure to high temperatures
Materials to avoid: Incompatible with oxidizing materials
Haz. decomp. products: Combustion will product carbon dioxide, carbon monoxide and oxides of nitrogen
Haz. polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Primary routes of entry: Skin, eyes, inhalation
Acute oral toxicity: LD₅₀ = 1892 mg/kg (rat)

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Acute dermal toxicity:	LD ₅₀ >5000 mg/kg (rat)
Acute Inhalation:	LC ₅₀ >2.02 mg/L/4 hr (rat)
Skin corrosion/irritation:	Slightly irritating to skin
Serious eye damage/irritation:	Moderately irritating to eyes
Respiratory/skin sensitization:	Not a sensitizer
Germ cell mutagenicity:	<i>In vitro</i> gene mutation in bacteria: Negative. <i>In vitro</i> cytogenicity in mammalian cells: Negative. <i>In vitro</i> gene mutation in mammalian cells: negative in two separate studies.
Carcinogeny:	2-year rat and 18-month mouse studies: no treatment related tumors observed at highest dose tested.
Reproductive toxicity:	There were no effects on reproduction in a 2-generation study in rats. No teratogenic effects observed in the studies up to maternally toxic doses; embryotoxicity was only expressed as decreased fetal body weights (rats).
STOT - single exposure:	No data available
STOT - repeated exposure:	No data available
Aspiration hazard:	No data available
Potential health effects:	Skin: may cause irritation on sensitive skin. Eyes: may cause irritation.
Signs and Symptoms of Exposure:	May be harmful if ingested in sufficient quantities. Contact with skin may cause slight irritation. Moderately irritating to eyes. High gas, vapor, or mist concentrations may be harmful if inhaled. Delayed Effects: none known.
Occupation Exposure Limit:	Not established

12. ECOLOGICAL INFORMATION

Toxicity:	EC ₅₀ (48hr) <i>Daphnia</i> = 75 pp, LC ₅₀ (96hr) <i>Oncorhynchus mykiss</i> (rainbow trout) = 97 mg/L NOEC (72hr) <i>Pseudokirchneriella subcapitata</i> (algae) = 8 ml/L LC ₅₀ <i>Colinus virginianus</i> (Northern bobwhite quail) = 1375 mg/kg
Persistence and biogradability:	Readily biodegradable.
Mobility:	This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Other adverse effects:	BCF = 22; Koc = 43.3

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13. DISPOSAL CONSIDERATIONS

US EPA Waster No.: Non-hazardous

Disposal methods: NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body water. Note that disposal regulations may also apply to empty containers and equipment rinsates.

14. TRANSPORT INFORMATION

U.S. DOT Shipping Name: The 10-Hour™ Insect Repellent

Hazard Class: Not applicable

UN/NA Number: Not applicable

Packing Group: Not applicable

Labels Required: Not applicable

15. REGULATORY INFORMATION

This SDS was prepared in accordance with 29 CFR 1910.1200 OSHA Hazard Communication.

16. OTHER INFORMATION

Revision date: 3/12/2015

Revision indicator: New Safety Data Sheet

Disclaimer: The information contained herein is accurate to the best of our knowledge. Tec Laboratories, Inc. makes no warranty of any kind, express or implied, concerning the safe personal use of this material or in combination with other substances. Please refer to the product label for complete directions for use and additional warning information.