

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: POWERDEET 25 INSECT REPELLENT
Tec Laboratories, Inc.

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Issue Date: 11/1/04

SECTION I - COMPANY AND PRODUCT INFORMATION

MANUFACTURER:
Tec Laboratories, Inc.
7100 Tec Labs Way SW
Albany, OR 97321

PRODUCT DESCRIPTION:
Liquid Personal Insect Repellent
CHEMICAL FAMILY:
Pesticides

EMERGENCY TELEPHONE NUMBERS:
(541) 926-4577
24 Hour Emergency Assistance
1-800-535-5053

CAS NUMBER:
Not available for this mixture

SECTION II - HAZARDOUS INGREDIENTS

This product contains the following toxic chemical 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:

Table with 3 columns: CAS #, CHEMICAL NAME, PERCENT BY WEIGHT. Row: 000136-45-8, Di-n-propyl isocinchomerate, 3.0%

HAZARD SUMMARY

Table with 2 columns: Rating, Definitions. Rows: Health 1 (0 - least), Fire 1 (1 - slight), Reactivity 0 (2 - moderate, 3 - high, 4 - extreme)

SECTION III - COMPOSITION

CAS NUMBER CHEMICAL NAME PERCENT BY WEIGHT

Active ingredients:

Table with 3 columns: CAS NUMBER, CHEMICAL NAME, PERCENT BY WEIGHT. Rows: 134-62-3 N,N-diethyl-m-toluamide (DEET) 25%, 113-48-4 n-octyl bicycloheptene dicarboximide 5%, 136-45-8 Di-n-propyl isocinchomerate 3%

Other ingredients:

Table with 2 columns: CAS NUMBER, CHEMICAL NAME. Rows: 121-33-5 Vanillin NF/FCC, 110-27-0 Isopropyl myristate, 8006-90-4 Peppermint oil, 8000-29-1 Citronella oil

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 SECTION IV - HEALTH HAZARD AND FIRST AID INFORMATION

OCCUPATION EXPOSURE LIMIT: Not established

CARCINOGENICITY: Not listed by NTP, IARC or OSHA

PRIMARY ROUTES OF ENTRY: Skin, inhalation

SYMPTOMS AND EFFECTS OF OVEREXPOSURE	ROUTE OF ENTRY	EMERGENCY AND FIRST AID PROCEDURES
Can cause temporary minor conjunctivitis.	EYES	Immediately flush with large amounts of water for 15 minutes. If irritation persists, get medical attention.
Can cause minimal temporary irritation, especially on areas occluded from air (inside gloves, under watch bands, etc.)	SKIN	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention.
Harmful if inhaled. Avoid breathing spray mist. Do not spray indoors.	INHALATION	Immediately remove to fresh air. If breathing has stopped, give mouth-to-mouth resuscitation. Get immediate medical attention.
Can cause stomach irritation, resulting in nausea, cramps, and diarrhea.	INGESTION	Do NOT induce vomiting. Give affected person two glasses of water. Keep them warm and quiet and get medical attention immediately.

Acute Dermal Toxicity - no deaths at 5.0 gm/kg (rabbits)
 Acute Oral Toxicity - LD₅₀ = 5,600 mg/kg (rats)
 Acute Inhalation Toxicity - LC₅₀ = 1.30 mg/L

NOTE TO PHYSICIAN: There is no specific antidote. Treatment of over-exposure should be directed at the control of symptoms and the clinical condition.

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SECTION V - PERSONAL PROTECTION INFORMATION

--WHEN HANDLING BULK QUANTITIES--

EYE PROTECTION: OSHA approved safety glasses, goggles or face shield.

PROTECTIVE CLOTHING: Wear rubber gloves. To avoid excessive exposure, wear impervious boots and clothing.

VENTILATION: Mechanical ventilation should be used when handling this product in enclosed areas.

RESPIRATORY PROTECTION: In the absense of proper ventilation, use a respirator approved by NIOSH/OSHA for use with pesticides and organic solvents.

--WHEN USING PRODUCT ACCORDING TO DIRECTIONS FOR USE--

EYE PROTECTION: None required. Avoid applying product in and around eyes.

PROTECTIVE CLOTHING: None required for normal use.

VENTILATION: Apply in well ventilated areas. Do not spray indoors.

RESPIRATORY PROTECTION: None required. Do not spray indoors.

SECTION VI - STORAGE AND SPECIAL HANDLING INFORMATION

Store containers upright and closed. Store in cool, dry and well ventilated areas. Keep away from heat, ignition sources and strong oxidizers. Do not contaminate water, feed or food by storage, handling, or disposal. Read and observe all precautions and instructions on the product label.

SECTION VII - SPILL OR LEAK RESPONSE INFORMATION

PRECAUTIONS IN CASE OF SPILLS OR LEAKS: Eliminate all ignition sources. Contain the spill (prevent this product from reaching surface waters or other water supplies). Soak up the spill with an appropriate absorbent and transfer into waste containers for disposal. Clean the spill area with detergent and water.

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

RCRA/CERCLA HAZARDOUS WASTE: This product contains no hazardous waste.

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SECTION VIII - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (open cup): >300°F

FLAMMABLE LIMITS: Not established.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SPECIAL 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 spray. Contain the run-off, if possible, for proper disposal.

SECTION IX - REACTIVITY INFORMATION

STABILITY: Stable.

INCOMPATIBILITY (MATERIALS TO AVOID): Contact with strong oxidizers may produce an explosive situation. Product acts as a plasticizer; avoid contact with synthetic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Unknown.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Water, heat, acidic or alkaline conditions may cause this product to break down.

SECTION X - PHYSICAL DATA

APPEARANCE: Clear, slightly yellow liquid.

ODOR: Vanilla fragrance.

SOLUBILITY IN WATER (% by weight): Insoluble.

SPECIFIC GRAVITY: 0.89 @ 25°C

BOILING POINT: > 300°F

VISCOSITY: 12 centipoise