

d'BUG

ALL-NATURAL INSECTICIDE

d'BUG is made with the all-natural ingredient d-Limonene, this liquid insecticide is safe to use around humans, animals and food. The d-Limonene instantly strips away the protective wax coating from the exoskeletons of insects, causing them to suffocate and die on contact. d'BUG can also be used as a residual insecticide that works for several weeks after application.



FOR USE BY:

Collection Facilities
Daycare Centers
Hospitals
Hotels/Motels
Housekeeping
Lift Stations
Meat Packers
Food Processing Plants
Municipalities
Nursing Homes
Refineries
Rendering Plants
Resorts
Restaurants
Schools
SWTP
WWTP

FOR USE ON:

Ants
Fleas
Silverfish
Roaches
Palmettos
And many more
crawling insects.

FEATURE-BENEFIT:

Safe around Children,
Pets and Food.

Immediate Kill on
contact.

Application lasts
several weeks.

d-Limonene
suffocates insects.

Use Indoors/Outdoors

DIRECTIONS:

Indoor Use: Spray directly on insect pests where they are visible. Use stream setting for penetrating cracks and crevices. Spray in kitchens, pantries. under cabinets and appliances, most anywhere insects hide. Apply to pet bedding to control fleas. Keeps repelling for weeks.
Outdoor Use: Spray perimeter of area generously to make a barrier of protection. Spray garbage cans, manure piles or any infested areas until wet.

TECHNICAL DATA:

Appearance: White Liquid
Fragrance: Citrus
Ready to Use: Yes
Specific Gravity: 0.99
Flash Point: 129° F
Protect From: Freezing
VOC Content: <10% by wt.
Application: Spray

d'BUG ALL-NATURAL INSECTICIDE

CONTACT INFORMATION

OFFICE:
1-888-6PURITY (678-7489)
FAX
1-877-9PURITY (978-7489)
ADDRESS:
114 SOUTHFIELD PKWY
SUITE 120
FOREST PARK GA. 30297
www.puritychemicals.com

MATERIAL SAFETY DATA SHEET

Distributed By: Purity Chemicals, Inc.
114 Southfield Pkwy., Suite 120
Forest Park, GA 30297



GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTRAC: (800) 424-9300

REVISION DATE: May 3, 2004
DATE OF ISSUE: May 3, 2004

PRODUCT NAME: dBug

PRODUCT CODE: 0848

V - Reactivity Data

STABILITY: Stable
INCOMPATIBILITY: None
CONDITIONS TO AVOID: Heat or open flame.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY: INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None
EFFECTS OF OVEREXPOSURE
IF IN EYES: Moderate irritation, tearing and redness.
IF ON SKIN: Irritation, chapping and dermatitis.
IF SWALLOWED: Gastrointestinal irritation, nausea, and diarrhea.
IF INHALED: Irritation to respiratory tract.
EMERGENCY AND FIRST AID PROCEDURES
IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.
IF ON SKIN: Remove contaminated clothing and launder before re-use. Flush with soap and water.
IF SWALLOWED: Contact physician or poison control center immediately. Give affected person several glasses of water. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything to an unconscious person.
IF INHALED: Remove person to fresh air.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly labeled container for disposal.
WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation.
VENTILATION LOCAL: Recommended MECHANICAL: Not required
PROTECTIVE GLOVES: Chemical resistant gloves.
EYE PROTECTION: Chemical goggles and/or safety glasses.
OTHER PROTECTIVE EQUIPMENT: Protective clothing.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat or open flame. Keep container tightly closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None **DOT ID NUMBER:** None **DOT PACKING GROUP:** None
DOT CLASS: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: May 3, 2004 **Prepared by:** PMR **DATE OF ISSUE:** May 3, 2004

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I - Product Identification

dBug
PRODUCT CODE: 0848
CHEMICAL FORMULATION: Citrus based insecticide
NTPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0
HAZARD RATING: 4 - Extreme: 3 - High: 2 - Moderate: 1 - Slight: 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR: 302 355 372	CAS #
d-Limonene	5.80	N/E	N/E	Y N N	5989-27-5

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4)
355: SARA TITLE III: List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III: List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D **SPECIFIC GRAVITY (WATER = 1):** 0.993
VAPOR PRESSURE (mm Hg): N/D **VOC CONTENT (% by weight):** N/D
VAPOR DENSITY (AIR = 1): N/D **EVAPORATION RATE (WATER = 1):** -1.0
SOLUBILITY IN WATER: Emulsifies **pH:** N/A
APPEARANCE AND ODOR: Milky white liquid, pleasant citrus fragrance.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 129 **(TEST METHOD):** Closed cup **LOWER: N/A**
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: None