

MATERIAL SAFETY DATA SHEET
ActiveGuard™ Mattress Liner for Dust Mite Control

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: Allergy Technologies, LLC
1155 Business Center Drive
Suite 100
Horsham, PA 19044
Product Name: ActiveGuard™ Mattress Liner for Dust mite Control
EPA Reg. No. 82123-1
Product Use: Insecticide

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call INFOTRAC 800-535-5053

For general information call 800-442-8418 (9:00 AM – 4:00 PM EST) or www.AllergyTechnologies.com

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>WT. %</u>
Permethrin*	52645-53-1	1.64
(3-phenoxybenzyl(1RS)-cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate		
Polyester fibre		98.36
* Active Ingredient		

SECTION 3 HAZARDS IDENTIFICATION

WARNING STATEMENTS: Contact with permethrin may produce skin sensations such as numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours. This product may cause allergies in humans. It is not known if the active ingredient can migrate from the liner and be absorbed by human skin and be excreted in human milk. Because of this potential, this product should not be used if a mother is nursing.

NOTE TO PHYSICIAN: This product has low oral, dermal and inhalation toxicity. It is non irritating to the eyes and to the skin. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

POTENTIAL ADVERSE HEALTH EFFECTS:

Skin Contact: The most likely route of entry. May produce skin sensations such as numbing, burning or tingling. These are reversible within 12 hours.

SECTION 4 FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

SKIN: Remove contaminated clothing and decontaminate prior to re-use. Wash with plenty of soap and water, include hair and under fingernails. Get medical attention if irritation occurs and persists.

INGESTION: Rinse mouth with water. Get medical attention immediately.

INHALATION: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

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SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: Not applicable
FLAMMABLE LIMITS: None established
EXTINGUISHING MEDIA: Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.
EXPLOSION HAZARDS: Moderately combustible. Heat and fire may result in thermal decomposition and the release of carbon monoxide, carbon dioxide, hydrogen cyanide, chlorine and hydrogen chloride.
FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke, gases or vapors generated. Keep non-essential personnel away from the immediate fire area, and out of any fall-out or run-off areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection".

Keep unprotected persons and animals out of area.

Keep material out of lakes, streams, ponds, and sewer drains. Dike to confine spill and absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in section 13, "Disposal Considerations".

SECTION 7 HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a cool, place away from direct sunlight. Store in original containers only. Do not allow children to play with mattress liner. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Always wash thoroughly after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust at all process locations where vapor or mist may be emitted.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

RESPIRATORY: For splash, mist or spray exposure, wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

PROTECTIVE CLOTHING: Depending upon concentrations encountered, wear coveralls or long sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body covered barrier suit, such as a PVC suit. Leather items- such as shoes, belts and watch bands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

ODOR: odorless
APPEARANCE: soft white fibre material
SOLUBILITY IN WATER:
SPECIFIC GRAVITY: Not Applicable
pH: Not Applicable
WEIGHT PER VOLUME: 135 grams per square meter

SECTION 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and fire.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxides, carbon dioxide, hydrogen cyanide, chlorine and hydrogen chloride
STABILITY: Stable.
POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

DERMAL LD₅₀: >5000mg/kg (based on EPA signal word)
ORAL LD₅₀: > 5000 mg/kg (based on EPA signal word)
INHALATION LC₅₀: >2 mg/L (based on EPA signal word)

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral, dermal and inhalation toxicity. It is non irritating to the eyes and skin. Signs of toxicity in laboratory animals included hypertonicity, ataxia, lethargy, convulsions, gasping, salivation, dyspnea and alopecia. Experience to date indicates that contact with this product may produce skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, permethrin did not cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice. permethrin caused an increase in benign lung tumors in female mice at 1600 ppm in the diet. The EPA concluded on a weight of evidence approach that permethrin represents a low oncogenic potential to female mice at this dose level (approximately 228 mg/kg/day). Liver enlargement is often noted in laboratory animals that have ingested large doses of permethrin during their life span. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

CARCINOGENICITY:

IARC: Not listed.
NTP: Not listed.
OSHA: Not listed.
OTHER (ACGIH): Not listed.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Permethrin is moderately degraded in soil. Permethrin has a high affinity for organic matter and a Log Pow of 6.10; yet, because of the ease with which the material undergoes degradation, it has a very low potential for bioconcentration (BCF = 500), and is not mobile in soil.

ECOTOXICOLOGICAL INFORMATION: Permethrin is considered highly toxic to fish and aquatic arthropods, and has LC₅₀ values which range from 0.5 ug/L to 315 ug/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment. Permethrin is slightly toxic to birds and oral LD₅₀ values are greater than 3,600 mg/kg.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Open burning of this product or its packaging is prohibited. If product cannot be disposed of by use according to instructions, an acceptable method of disposal is to incinerate accordance with local, state and national environmental laws, rules, standards and regulations.

SECTION 14 TRANSPORT INFORMATION

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Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS

DOT Shipping Description: Not regulated by highway and rail transportation

U.S. Surface Freight Classification: Insecticides, NO1, other than poison (NMFC102120;)

SECTION 15 REGULATORY INFORMATION

Section 311/312: Acute Health Hazard, Delayed Health Hazard
Proposition 65: Not applicable
Reportable Quantity (RQ): None
Marine Pollutant: Permethrin

SECTION 16 OTHER INFORMATION

PREPARED BY: DENNIS BELAU

REVIEWED BY: ALLIED TECHNOLOGIES, LLC

DATE OF PREPARATION: May5, 2005

REVISION: NEW

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