

MATERIAL SAFETY DATA SHEET

ActiveGuard™ Mattress Liner

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. The information contained herein is for the permethrin impregnated mattress liner as packaged, unless otherwise stated.

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company: Allergy Technologies, LLC
124 S. Maple Street
Suite 240
Ambler, PA 19002

Product Name: ActiveGuard™ Mattress Liner for Bed Bug & Dust Mite Control

EPA Reg. No. 82123-1
Product Use: Insecticide, pest control

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

For general information call 866-978-6288 (9:00 AM – 4:00 PM EST) or www.AllergyTechnologies.com

SECTION 2 HAZARDS IDENTIFICATION

This product is a polyester fabric mattress liner. It is impregnated with 1.64% permethrin which is tightly bound to the fabric. The liner is intended to be installed upon mattresses. Place another surface such as a mattress pad, barrier encasement or bottom sheet over the mattress liner.

POTENTIAL ADVERSE HEALTH EFFECTS:

Skin Contact: The most likely route of entry. Contact with this product has rarely produced skin sensations such as a numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

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 removal of exposure followed by symptomatic and supportive care.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4 FIRST AID STATEMENTS

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

SKIN: If on 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.

INHALATION: If inhaled, move 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.

EYES: If in 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. Call a poison control center or doctor for treatment advice.

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.

Collect liners and place them in a disposal container or dispose per the product label instructions. Wash hands with soap and water after handling liners.

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, dry place away from direct sunlight. Store in original packaging 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: Not Applicable

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Not Applicable

RESPIRATORY: Not Applicable

PROTECTIVE CLOTHING: Not Applicable

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Odorless
APPEARANCE:	Soft white fabric material
SOLUBILITY IN WATER:	< 1 ppm
SPECIFIC GRAVITY:	Not Applicable
pH:	Not Applicable
WEIGHT PER VOLUME:	35 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 rarely 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 this formulation.

In studies with laboratory animals, permethrin did not cause reproductive toxicity, teratogenicity, neurotoxicity or carcinogenicity in male and female rats and male mice. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

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.

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

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, NOI, 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: Ballard Pest Management Consulting, LLC REVIEWED BY: Allergy Technologies,

DATE OF PREPARATION: Jun 16, 2009

REVISION: 1.03

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This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.