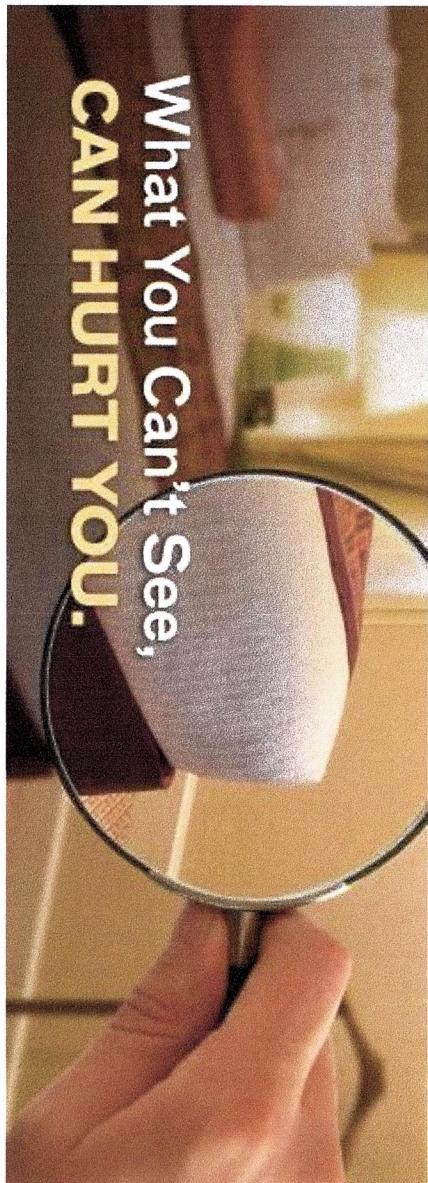


Efficacy Testing Performed on Cimi - Shield



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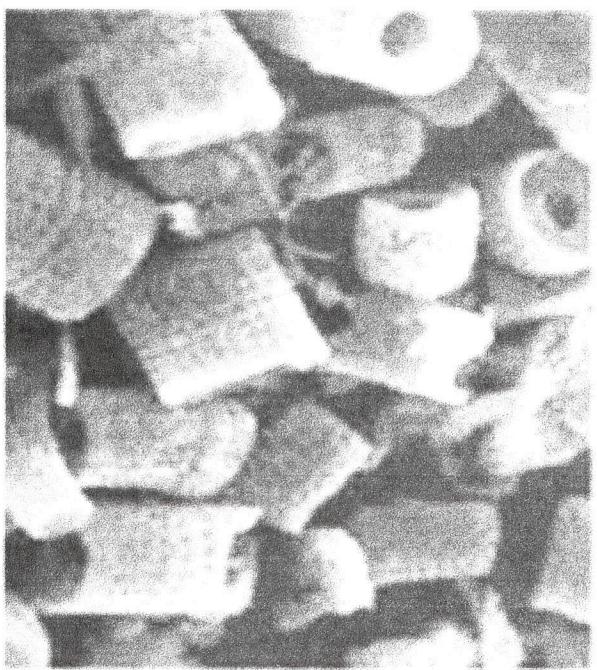
ON CONTACT SOLUTIONS

BED BUGS

The Problem - Our Solution

A summary of the extensive testing done on this Revolutionary product

How Cimi – Shield Works



Porous carriers, only 10 microns across, hold the residual for up to twelve months.

Cimi – Shield gets attached to Bed Bugs when they walk over it causing an instant affect on the Bed Bugs. Above see what it looks like on a nano – level. The rough edges allow it to easily attach and begin the dehydrating process.

What's in Cimi – Shield ?

Active Ingredient:	4.78%
Soybean Oil	
Other Ingredients:	
Water	43.46
Calcium Silicate	12.57
Aluminum Sodium Silicate	9.22
Iron Oxide	7.18
Sodium Sulfate	7.04
Magnesium Silicate	6.96
Potassium Sulfate	4.01
Sodium Benzoate (as a preservative)	4.78
Total	100.00 %

25 B Exempt oils and elements	
Castor oil (U.S.P. or equivalent)*	Linseed oil
Cedar oil	Malic acid
Cinnamon and cinnamon oil*	Mint and mint oil
Citric acid*	Peppermint and peppermint oil*
Citronella and Citronella oil	2-Phenethyl propionate (2-phenylethyl propionate)
Cloves and clove oil*	Potassium sorbate *
Corn gluten meal*	Putrescent whole egg solids
Corn oil*	Rosemary and rosemary oil*
Cottonseed oil*	Sesame (includes ground sesame plant) and sesame oil*
Dried Blood	Sodium chloride (common salt)*
Eugenol	Sodium lauryl sulfate
Garlic and garlic oil*	Soybean oil
Geraniol*	Thyme and thyme oil*
Geranium oil	White pepper
Lauryl sulfate	Zinc metal strips (consisting solely of zinc metal and impurities)

Efficacy

- Efficacy is understood to mean that the products produce the results provided for in their label when applied according to label directions and that it is at the same time in conformity to all applicable US Environmental Protection Agency regulations.
- All of the studies were independently performed by the American Academy of Entomological Sciences and each is certified by the Academy's Director General, Dr. Jeffrey K. Brown. D : (601) 576 - 7972
- 5 studies (Feb 2009 – January 2012)
 - 3 lab test
 - 2 field test + one 12 month later residual test

2009 Initial Testing

1. Does it comply with FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) regulation's Section 25(b) being of "minimal risk inert ingredients as referred to as '4A' ?
2. When used according to label directions is the product lethal to the insect pests specified?
3. Will the Academy Certify that the product is nontoxic to mammals, of no harm to the environment and lethal to the identified target insects?"
4. To what specific insect pests does this Certification apply?
5. Is the Material Safety Data Sheet (MSDS) form accurate?

2009 Results

1. Yes, Elements are exempt under EPA regulation commonly referred to as 25(b) and are found on a list of elements commonly referred to as the '4A List' and are Generally Recognized As Safe (GRAS).
2. Following label directions it was applied to Bed Bugs, *Cimex lectularius*, 100% mortality within 5-10 minutes depending on life stage.
3. It is nontoxic to mammals. It is not harmful to the environment. It is lethal as to the identified target insects."
4. Bed Bugs (*Cimex lectularius*)
5. All ingredients in your product are safe and non-toxic to humans and other animals as explained in your Material Safety Data Sheet (MSDS).

2010 - 2011 Testing

1. Because 50% of infestation is in the form of hidden and untreated eggs what is the effect of residual lethality on emergent nymphs and instars?
2. What testing has been done to confirm the one year lethality of this product ?
3. Was any odor present in any treated area, did any stains appear or were there any signs that application had caused damage or spotting?

2010 - 2011 Results

1. *Nymphs mortality was observed at between one (1) to two (2) hours; first and second instar nymph mortality at sixty (60) % within 1.5 hours after exposure. Fifth instar nymph and adult mortality were observed between four (4) to six (6) hours after exposure; fifty (50) % within 4.5 hours.”*
2. *Testing was done at a private commercially operated hospital. Follow up observations and collections were completed at intervals of 0.5 hours, 1.0 hours, 24 hours, 48 hours, one month and every subsequent month for the next twelve (12) months. Cimi - Shield effectively killed all Bed Bugs during this time.*
3. *No odor was present, no stains or damage to any materials was observed.*

2012 Testing

- Is there residual efficacy twelve (12) months after application upon re-introduced bed bugs? Rooms at Facility ‘B’, the commercially hotel/motel facility were divided into two groups, Group A and Group B. “Group ‘A’ consists of rooms previously treated... Group ‘B’ is the untreated rooms, not part of the prior Project and with no prior report of infestation.”

2012 Results

- *Rooms in both Groups remained in continuous service and have been subjected to regular housekeeping and inspection, including periodic bed bug dog inspection.*
- *Room 1 was randomly chosen from Group 'A,' the previously treated rooms.*
- *As to Room 1 from Group 'A,' having been previously treated with Cimi - Shield and where UV light confirmed sufficient residual element still in place and having had no intervening treatments or material occurrence of infestation Cimi - Shield was proven effective against re-introduced bed bugs, Cimex lectularius, where treatment had occurred more than twelve (12) months previous.*