

## Insecticide application target areas, key ingredients and formulations

Application Target Area	Key Insecticide Groups or Active Ingredients*	Insecticide Formulation	Hazards & Applicator Safety**
<b>Mattress, Upholstered Surfaces</b> Folds and seams only	Various Pyrethroids; Chlorfenapyr	Liquid or Aerosol	DO NOT spray around open flame or heat sources or in electrical sockets Allow product to dry, read label for reentry times
	Diatomaceous Earth (silicon dioxide)	Insecticidal Dusts	Inhalation hazards
	Cold Pressed Neem Oil	Liquid Botanical	Allow to dry; leaves strong odor
<b>Soft Furniture</b> Where skin contact is less likely to occur	Pyrethrins	Liquid or Aerosol	Lung, eye, skin contact hazards
<b>Wall/Floor</b> Cracks and crevices only	Various Pyrethroids; Chlorfenapyr; Imidacloprid	Liquid	DO NOT spray around open flame or heat sources or in electrical sockets
	Dinotefuran	Aerosol	Allow product to dry, read label for reentry times into treated area
	Diatomaceous Earth (silicon dioxide)	Insecticidal Dusts	Avoid applying diatomaceous earth to large floor surfaces
	Cold Pressed Neem Oil	Liquid Botanical	Allow to dry; leaves strong odor
<b>Carpet Edges</b> Baseboard-carpet edges	Pyrethroids, Pyrethrins, or Dinotefuran often formulated with Diatomaceous Earth (silicon dioxide)	Liquid	DO NOT spray around open flame or heat sources or in electrical socket
	Diatomaceous Earth (silicon dioxide)	Insecticidal Dusts	Inhalation hazards
	Cold Pressed Neem Oil	Liquid Botanical	Allow to dry; leaves strong odor
<b>Hard Furniture</b> Bed frames, Bookcases, Dressers (underside surfaces – non-skin contact areas)	Various Pyrethroids and Pyrethrins	Liquid	DO NOT apply to surfaces where skin contact occurs; avoid eye contact
	Diatomaceous Earth (silicon dioxide), Pyrethrins	Insecticidal Dusts	Inhalation hazards
	Cold Pressed Neem Oil	Liquid Botanical	Allow to dry; leaves strong odor
<b>Wall Voids</b> Behind electrical outlets/wall switches	Diatomaceous Earth (silicon dioxide)	Insecticidal Dusts	Inhalation hazards
<b>Electronics</b> Clock-radio, computers, toys, cellphones	Dichlorvos	Chemical Fumigation	For professional use only

\***DISCLAIMER:** Mention of any insecticide active ingredient in this brochure is for educational purposes only does not imply an endorsement.

\*\***HEALTH CAUTION:** Individuals with asthma, respiratory and dermal health conditions may be particularly sensitive to the use of some products with odors and/or particulates that can result from treatments.

**CREDIT:** University of Minnesota State Extension and Minnesota Pest Management Association.