

INSECTICIDE USAGE INFORMATION

Description	Product Number and Name	Contact Kill	Residual Duration	RTU	Concentrate	Active Ingredient(s)	Indoor Use	Outdoor Use	Ability To Be Fogged
Kills flies, mosquitoes, gnats, other flying insects and is effective on roaches, fleas, beetles and other crawling insects.	195 - ESPC Emulsifiable Synergized Pyrethrin Concentrate	X	None		Water	1.20% Pyrethrin	X		No
Kills all types of flying and crawling insects.	▲ 399 - Sniper (private label - Flying Insect Killer)	X	None	X		.250% d-Trans Allethrin	X		Thermo Fogger
Kills fire ants, roaches, termites, beetles, centipedes, spiders, bees, hornets, yellow jackets, wasps and many other insects.	▲ 604 - Demise Fire Ant & Insect Dehydrator (private label - Powdered Insecticide)	X	Up to 6 Months	X		Pyrethrins - 1% Silicon Dioxide - 60% Synergist - 10%	X	X	No
Controls mosquitoes and mosquito larvae in standing water.	680 - Malathion 57%	X	Couple Weeks		Water or Oil	Malathion 57%		X	Thermo Fogger
Use around the outside of buildings as a barrier spray. Also may be used on lawns, trees, shrubs, and flowers to kill crawling and flying insects.	▲ 845 - Extinct Concentrate (private label - Permicide 2.5% Concentrate)	X	4 Weeks		Water	2.5% Permethrin		X	No
Kills and repels biting flies and all types of flying and crawling insects. Use in restaurants, food processing plant, dairies, livestock and on pets.	▲ 847 - Quick Strike Insecticide (private label - Contact Insecticide)	X	None	X		0.10% Pyrethrins + 1.0% Synergist	X	X	ULV Fogger
d-Limonene dissolves the protective layer of wax from the exoskeleton of insects causing them to suffocate and die.	▲ 848 - d'Bug	X	Up to 3 Weeks	X		5.8% d-Limonene	X	X	No
Eliminates garden insects, livestock insects, lice, mosquitoes, etc.	▲ 849 - Extinct Insecticide (private label - Permicide)	X	Several Weeks	X		0.5% Permethrin	X	X	ULV Fogger
Keeps insects away for hours including mosquitoes, biting flies, ticks, gnats and fleas.	▲ 1540 - Insect Repellent Towelettes (private label - Insect Repellent Towel)		Several Hours	X		12.33% Deet 5.28% Synergist	X	X	No
Completley eliminates insects in just two hours.	▲ 8041 - Total Release Fogger	X	Several Weeks	X		.05% Pyrethrins .40% Permethrin .40% Synergist	X		Yes
Effective on wasps, yellow jackets, hornets and bees.	▲ 8401 - Buzz Saw (private label - Wasp & Hornet Killer)	X	Up to 3 Months	X		.10% Tetramethrin .25% Permethrin .50% Synergist		X	No
Fast knockdown of various flying insects.	▲ 8405 - FIK Flying Insect Killer	X	None	X		.15% Phenothrin .25% Tetramethrin	X	X	No
Eliminates roaches, ants, crickets, spiders, sow bugs, earwigs, ticks and fleas.	▲ 8407 - CIK (private label - Surface Insecticide)	X	Up to 3 Months	X		.10% Tetramethrin .25% Permethrin .50% Synergist	X	X	No

• See Reverse Side For Active Ingredient Information.

▲ Indicates Total Solutions™ EPA-Registered product.

* See Product Label for complete dilution instructions

ACTIVE INGREDIENT INFORMATION

Pyrethrins

A natural extract of the Chrysanthemum flower used as an ingredient in insecticides for fast knockdown. It kills on contact by causing paralysis. Offers low toxicity to humans and warm-blooded animals.

Synthetic Pyrethrins

Provides the same benefits as natural pyrethrins but are less expensive to produce. They were developed due to a shortage of natural pyrethrins in the '70s. Examples include Resmethrin, Tetramethrin, Permethrin and Phenothrin.

Synergist

An ingredient in insecticides which enhances the effectiveness of other ingredients. Synergists allow other ingredients to perform at a higher level than they normally would on their own. Piperonyl Butoxide is a common synergist added to insecticides.

DEET

The most widely used repellent in the world. Superior to other repellents such as smokes or fragrant ingredients.

Malathion

A potent contact insecticide which is unaffected by sunlight, making it ideal for outdoor use. It is especially effective against mosquitoes.

Boric Acid

Longest residual activity of any material used for crawling insects. Acts as a stomach poison as well as absorber of insect cuticle wax.

Silicon Dioxide

Dehydrates insects to death by eliminating needed moisture from their bodies. Powder clings to insects and is spread to entire nest.

d-Limonene

All-natural orange peel extract originally used as a solvent cleaner. Found to be an excellent contact and residual insecticide safe for use around children and food. Suffocates insects to death by stripping away a protective wax coating from their exoskeletons.



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