

2018 Fire Ant Products for Tennessee's Schools By Formulation, Active Ingredient, Application Method and Use Site

Intended as a supplement to UT Extension publication, "PB 1788 Managing Fire Ants in and
Around Schools"

extension.tennessee.edu/publications/Documents/PB1788.pdf

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One of the most efficient ways to manage fire ants on school grounds is to broadcast a fire ant bait. Treating individual mounds can be expensive and requires more time and effort to scout for all the mounds, and often the smaller mounds are overlooked. If baits are broadcasted twice a year, often other treatments are not needed. Please refer to PB 1788 for a full discussion of fire ant management around schools. In this publication you'll find a list of fire ant baits, the application methods (individual mound treatments or broadcast), and other use sites for which they are labeled. This information is also provided for granules, liquids and dusts should these be deemed necessary as suggested in PB 1788. In addition, products labeled for electrical equipment and utility housing are provided. The speed and mode of action of active ingredients in fire ant products found in the last table will help with the product selection process.

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Bait Fire Ant Products Labeled for Schools

Bait Active ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mounds	Interior ¹
Abamectin	Award® II Fire Ant Bait	100-1452	X	X	
Abamectin B ₁	Abathor Fire Ant Bait	83923-7	X	X	X
Abamectin B ₁	Prescription Treat. Ascend Fire Ant Bait Formula 1	499-370	X	X	X
Fipronil	Maxforce FC Fire Ant Bait	432-1433	X	X	
Hydramethylnon	Amdro Pro Fire Ant Bait	241-322	X	X	
Hydramethylnon	Probait Formulation For Professionals	73342-1-2724	X	X	
Hydramethylnon + methoprene (IGR)	Extinguish Plus	2724-496	X	X	X
Indoxacarb	Advion Fire Ant Bait	100-1481	X	X	
Metaflumizone	Siesta Insecticide Fire Ant Bait	7969-232	X	X	
Methoprene (IGR)	Extinguish	2724-475	X	X	X
Pyriproxyfen (IGR)	Distance Fire Ant Bait	1021-1728-59639	X	X	
Spinosad	Ferti-lome Come and Get It	62719-329-7401	X	X	

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise. Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

Granular Fire Ant Products Labeled for Schools

Granular Active Ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mounds	Perimeter
Bifenthrin	Bifen L/P Insecticide Granules	53883-124	X	X	X
Bifenthrin	Howard Johnsons PL Bifenthrin Granular	53883-124-32802	X	X	X
Bifenthrin	Southern Ag Lawnstar Insecticide Granules	70506-73-829	X	X	
Bifenthrin	Talstar PL	279-3168	X	X	X
Bifenthrin	Wisdom EZ or Lawn Granular	5481-521	X	X	X
Deltamethrin	DeltaGard G Insecticide Granule	432-836	X	X	
Fipronil	TopChoice Insecticide ¹	432-1217	X		
Hexa-Hydroxyl	EcoExempt G Granular Insecticide ²		X	X	X
Zeta-cypermethrin & Bifenthrin	Talstar XTRA	279-3343	X	X	

¹ Restricted use pesticide must be applied by a certified applicator.

² Exempt from EPA registration according to FIFRA 25B

Liquid Fire Ant Products Labeled for Schools

Liquid Active Ingredient	Trade Name	EPA Reg #	Broadcast	Individual Mounds	Interior ¹	Perimeter
Bifenthrin	Bifen I/T	53883-118	X	X		
Bifenthrin	Masterline Bifenthrin 7.9 Termiticide/Insecticide	73748-7	X	X		
Bifenthrin	Menace 7.9% Flowable	228-451	X	X		X
Bifenthrin	Talstar P	279-3206	X	X		
Bifenthrin	Wisdom TC Flowable	5481-520	X	X		
β-Cyfluthrin	Tempo SC Ultra	432-1363		X		X
Cyfluthrin	Cy-Kick CS	499-304			X	
Deltamethrin	Suspend SC	432-763		X	X	X
Deltamethrin	Suspend Polyzone	432-1514		X		X
Dinotefuran	Alpine Pressurized Insecticide	499-531			X	X
Gamma-Cyhalothrin	Optimate CS	67760-104-53883	X	X		
Lambda-Cyhalothrin	Cyzmic CS	53883-261	X	X		
Lambda-Cyhalothrin	Demand CS	100-1066	X	X		
Lambda-Cyhalothrin	Scimitar CS	100-1078	X	X		
Permethrin	Astro Insecticide	279-3141	X	X		X
Permethrin	Martin's Permethrin SFR Termiticide/Insecticide	70506-6-53883		X		
Permethrin	Permethrin CS	53883-282		X	X	X
Thiamethoxam	Optigard Flex	100-1306		X		

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Dust Fire Ant Products Labeled for Schools

Dust Active Ingredient	Trade Name	EPA Reg #	Individual Mounds	Interior ¹	Perimeter
Deltamethrin	DeltaDust Insecticide	432-772	X		
Cyfluthrin	Tempo 1 % Dust Insecticide RTU	432-1373	X		
Pyrethrins, PBO, Silicon Dioxide	Bombs Away	10088-93-1553	X	X	
Pyrethrins, PBO, Silicon Dioxide	Demise Fire Ant & Insect Dehydrator	10088-93-68562	X	X	
Pyrethrins, PBO, Silicon Dioxide	WildFire Fire Ant and Insect Dehydrator	10088-93-11547	X	X	
Zeta-Cypermethrin	Cynoff Dust Insecticide	279-3259		X	X

¹ Interior treatments should be applied as crack and crevice and only when and where children are not present unless the label states otherwise. Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

Fire Ant Products Labeled for Electrical Equipment and Utility Housings

Dust Active Ingredient	Trade Name	EPA Reg #	Individual Mounds	Interior ¹	Perimeter	Motor housings, switch boxes, junction boxes, conduits ²	Above ground transformers, in-ground utility boxes ²	Pad-mounted utilities ²
Pyrethrins, PBO, Silicon Dioxide	Bombs Away	10088-93-1553	X	X		X		
Pyrethrins, PBO, Silicon Dioxide	Demise Fire Ant & Insect Dehydrator	10088-93-68562	X	X		X		
Pyrethrins, PBO, Silicon Dioxide	WildFire Fire Ant and Insect Dehydrator	10088-93-11547	X	X		X		
Cynoff Insecticide	Zeta-Cypermethrin, PBO	279-3259		X	X	X		
Bait Active Ingredient								
Abamectin B1	Abathor Fire Ant Bait	83923-7	X	X	X		X	
Abamectin B1	Prescription Treat. Ascend Fire Ant Bait Formula 1	499-370	X	X	X		X	
Granular Active Ingredient								
Bifenthrin	Bifen L/P	53883-124	X		X			X
Bifenthrin	Howard Johnson's Bifenthrin PL Granular	53883-124-32802	X		X			X
Bifenthrin	Talstar PL	279-3168	X		X			X
Bifenthrin	Wisdom EZ & Lawn Granular	5481-521	X		X			X

¹ Interior treatments should be applied as crack and crevice and only when children are not present unless the label states otherwise. Apply to cracks and crevices where insects may enter the building such as around doors, windows, pipes, vents, weep holes, under siding and in wall voids.

² For safety reasons, only electricians or licensed pest control operators should treat electrical equipment. Specialized products and training are necessary to treat these sites safely and effectively.

Speed and Mode of Action of Active Ingredients in Fire Ant Products

Common name of active ingredients	Signal Word ¹	Speed of control	Mode of action or how it works
(S)-methoprene	Caution	3 to 6 months bait	stops production of new fire ants (igr)
(S)-methoprene, hydramethylnon	Caution	2 to 4 weeks	mix of two types of baits (see (S)-methoprene and hydramethylnon)
abamectin B1	Caution	2 to 8 weeks bait	kills workers as well as queens
acephate	Caution	1 to 2 days	contact insecticide
beta-cyfluthrin	Caution	1 to 2 days	contact insecticide
bifenthrin	Caution	1 to 2 days	contact insecticide
carbaryl	Caution	1 to 2 days	contact insecticide
cypermethrin	Caution to Warning	1 to 2 days	contact insecticide
D-limonene	Caution	1 to 2 days	contact insecticide
deltamethrin	Caution	1 to 2 days	contact insecticide
fipronil	Caution	3 to 4 weeks	slow-acting insecticide
gamma-cyhalothrin	Caution	1 to 2 days	contact insecticide
hexa-hydroxyl (clove oil, thyme oil) ²		1 to 2 days	contact insecticide
hydramethylnon	Caution	2 to 6 weeks	bait kills workers as well as queens
indoxacarb	Caution	3 to 7 days	bait kills workers as well as queens
lambda-cyhalothrin	Caution	1 to 2 days	contact insecticide
permethrin	Caution	1 to 2 days	contact insecticide
2 phenylethyl propionate ²		1 to 2 days	contact insecticide
pyrethrins	Caution	1 to 2 days	contact insecticide
pyriproxyfen	Caution	2 to 6 months	stops production of new fire ants (igr)
spinosad	Caution	2 to 4 weeks	bait kills workers as well as queens
thiamethoxam	Caution	3 to 7 days	contact insecticide
thyme oil ²		1 to 2 days	contact insecticide

¹ Signal Words describe the acute (short-term) toxicity of the formulated pesticide product and are based on the results of six acute toxicity studies. The acute oral, dermal and inhalation studies evaluate systemic toxicity by those routes of entry. The primary eye and skin irritation studies measure irritation or corrosion, while the dermal sensitization study evaluates the potential for allergic contact dermatitis. See the following link for more information: edis.ifas.ufl.edu/PI137

The Signal Word is determined by the most severe toxicity category assigned to the acute toxicity studies with some exceptions. The Signal Words and associated toxicity categories are as follows: Toxicity Category I (most toxic) = DANGER/POISON Skull and Crossbones; Toxicity Category II (moderately toxic) = WARNING; Toxicity Category III (less toxic) = CAUTION; Toxicity Category IV (least toxic) = No Signal Word required.

Modified from previous Extension publications.

² Exempt from EPA registration according to FIFRA 25B, no Signal Word required.

If you find a fire ant product in a Tennessee store and it is labeled for schools, but not listed here, please contact kvail@utk.edu with the product information.

Precautionary Statement

To protect people and the environment, pesticides should be used safely. This is everyone's responsibility, especially the user. Read and follow label directions carefully before you buy, mix, apply, store or dispose of a pesticide. According to laws regulating pesticides, they must be used only as directed by the label.

Disclaimer

This publication contains pesticide recommendations that are subject to change at any time. The recommendations in this publication are provided only as a guide. It is always the pesticide applicator's responsibility, by law, to read and follow all current label directions for the specific pesticide being used. The label always takes precedence over the recommendations found in this publication. Use of trade or brand names in this publication is for clarity and information; it does not imply approval of the product to the exclusion of others that may be of similar, suitable composition, nor does it guarantee or warrant the standard of the product. The author(s), the University of Tennessee Institute of Agriculture and University of Tennessee Extension assume no liability resulting from the use of these recommendations.

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