

[illegible]

Hazardous Pesticides to Avoid and Associated Health Impacts

Pest Problem	Pesticide Product Name	Application Site	Primary Formulation Type	Active Ingredient	Pesticide Class	Carcinogen	Reproductive Toxin	Birth / Developmental Toxin	Neuro-toxin	E.D. Endocrine Disruptor	Liver or Kidney Damage	Sensitizer / Irritant	Environmental effects	Note
Termites	Phantom	Indoor	Spray	Chlorfenapyr	Pyrazole	C				?		<u>X</u>	Extremely toxic to birds.	
Crawling, flying and wood infesting insects	Tempo Ultra WP	Indoor	Spray	Beta-Cyfluthrin	Synthetic pyrethroid		X		X	X	X	X	Highly toxic to aquatic organisms and honey bees.	
Ants and Cockroaches	Demon Max	Unspecified	Spray	Cypermethrin	Synthetic pyrethroid	C	X	X	X	X	X	X	Toxic to bees, fish, and aquatic organisms	
Ants and Cockroaches	Delta Dust	Indoor	Dust	Deltamethrin	Synthetic pyrethroid		<u>X</u>	<u>X</u>	<u>X</u>	X		X	Toxic to fish, aquatic organisms, amphibians, bees.	
Ants and Cockroaches	Suspend SC	Indoor	Spray											
Rodent Control	Generation mini blocks	Outdoor	Bait	Difethialone	Rodenticide		<u>X</u>	?		?	<u>X</u>		Highly toxic to birds and mammals, moderate to highly toxic to fish and aquatic organisms.	Highly acutely toxic to humans. Rodenticides have a high risk of secondary poisoning.
Rodent Control	Ditrac Tracking Powder	Indoor / Outdoor	Dust	Diphacinone	Indandione (anti-coagulant rodenticide)	?	?	?	<u>X</u>	?	X	?	Highly toxic to birds and mammals, moderate to highly toxic to fish and aquatic organisms.	Highly acutely toxic to humans. Rodenticides have a high risk of secondary poisoning.

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Termites	Termidor SC	Indoor / Outdoor	Spray	Fipronil	Pyrazole	C		X	X	X	X	X	Toxic to birds, bees, fish and aquatic organisms	
Ants	Maxforce	Indoor	Gel bait											
Ant, Carpenter	Maxforce	Indoor	Bait station											
Cockroaches	Maxforce FC	Indoor	Gel Bait											
Cockroaches	Combat Source Kill	Unspecified	Solid Bait	Hydramethylnon	Insecticide	C	X	X		X	X	X	Toxic to fish and aquatic organisms.	
Ants	Maxforce	Indoor	Bait											
Cockroaches	Maxforce	Indoor / Outdoor	Bait station											
Roach Control	Gentrol IGR	Indoor	Spray	Hydroprene	Botanical	D	?	?		?		X	Environmental fate is unavailable.	
White grubs	MERIT	Outdoor	Granular	Imidacloprid	Chloronicotinyl	E	X			?			Potential leacher, toxic to birds, bees, fish, and aquatic organisms.	
Cockroaches	PreEmpt	Unspecified	Gel bait											
Broadleaf weeds	Barricade	Outdoor	Liquid	Prodiamine	2,6-Dinitroaniline, herbicide	C				X				
Broad spectrum turf insecticide	Demand CS	Indoor	Spray Foam	Lambda Cyhalothrin	Synthetic pyrethroid	D			X	X		X	Toxic to bees, fish, and aquatic organisms	
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			ation Type					mental Toxin		Dis- ruptor				
Ants	565 Plus XLO	Unspecified	Aerosol	Pyrethrin	Pyrethrin	Likely	X		X	?	X	X	Toxic to fish/aquatic organisms.	
Crawling and Flying Insects	CB-80	Indoor	Spray	Piperonyl Butoxide and Pyrethrin	Synergist (Pyrethrin)	C	X		X	?	X	X	Toxic to fish/aquatic organisms.	
Ants, flies, cockroaches	Nyguard	Indoor	Spray	Pyriproxyfen	Insect Growth Regulator	Not likely	?	X	X		X		Toxic to fish and aquatic invertebrates.	
Ants	Advance Dual Choice Ant Bait	Unspecified	Bait	Sulfluramid	fluoroaliphatic sulfones	?	X	X		?			Highly toxic to birds and toxic to aquatic organisms.	
TOTAL Health Effects						11	10	5	12	8	10	12		

Carcinogen: B2 - Probable, C - Possible, D - Not classifiable, E - Evidence of non-carcinogenicity, ? Not determined.

X - indicates health effect, ?- indicates not investigated or not enough information to determine.

ED - Endocrine Disruptor **Pyrethroids are confirmed to have endocrine disrupting properties, and join the ranks with many other compounds known to mimic or interfere with the endocrine system. Endocrine-disrupting chemicals (EDCs) act by blocking, mimicking, or synergizing endogenous hormones. <https://pubs.acs.org/doi/10.1021/acs.est.6b02253>