

APPENDIX C

PESTICIDES USED IN STRUCTURAL PEST MANAGEMENT

Common Name	Oral LD ₅₀ (mg/kg)	Dermal LD ₅₀ (mg/kg)	Signal Words
INSECT ATTRACTANTS			
heptyl butyrate muscalure	>23,070	>2,025	Caution
BOTANICALS AND PYRETHROID INSECTICIDES			
allethrin	680-1,000	>11,200	Caution
azadirachtin	>5,000	>2,000	Caution
bifenthrin	54.5	>2,000	Warning
bioresmethrin	450-680		Caution
cyfluthrin	500-800	>5,000	Caution
cypermethrin	247		Warning
cyphenothrin	310-419		Warning/Caution
d-limonene			Warning/Caution
d-trans allethrin	425-860		Caution
deltamethrin	129-139	>2,000	Warning
empenthrin	1,680-2,280		
esfenvalerate	74-458	>5,000	Warning
fenfluthrin	85-120	1,535-2,500	
fenothrin	>10,000	>5,000	Caution
fenvalerate	451	>2,500	Caution
fluvalinate	>3,000	>2,000	Warning
lambda-cyhalothrin	19-79	1,293-1,507	Warning
linalool			Caution
permethrin	2,000->4,000	>4,000	Warning
phenothrin	>5,000	>2,000	Caution
pyrethrins, pyrethrum	200-2,600	>1,800	Caution
resmethrin	1,500-4,240	2,500->3,040	Caution
rotenone (derris)	60-1,500	>1,000-3,000	Caution
tetramethrin	>4,640	>15,000	Caution
tralomethrin	99-3,000	>2,000	Warning/Caution
CARBAMATE INSECTICIDES			
bendiocarb	46-156	566-800	Warning/Caution
carbaryl	307-986	>500->4,000	Caution
propoxur	83-104	>1,000->2,400	Warning/Caution
CHLORINATED HYDROCARBON INSECTICIDES			
dicofol	575-1,331	1,000-1,230	Caution

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INSECT GROWTH REGULATORS			
Chitin Inhibitors			
diflubenzuron	4,640->10,000	>4,640	Caution
hexaflumuron	>5,000	>5,000	Caution
iufenuron	>2,000	>2,000	Caution
Juvenoids			
hydroprene	>5,100	>5,100	Caution
methoprene	>34,600	3,038->3,500	Caution
pyriproxyfen	>5,000	>2,000	Caution
FUMIGANTS (AVT = acute vapor toxicity)			
chloropicrin	250		Danger
methyl bromide	AVT = 200 ppm		Danger
naphthalene	2,200		Caution
paradichlorobenzene	500-5,000	>2,000	Warning
phosphine	AVT = 200 ppm		Danger
sulfuryl fluoride			Danger
INORGANIC INSECTICIDES			
borax, boric acid		2,660-5,190	Caution
diatomaceous earth			Caution
precipitated silica			Caution
sodium fluoride		75-150 (to humans)	Danger
MICROBIAL INSECTICIDES			
<i>Bacillus thuringiensis</i> var. <i>israelensis</i>			Caution
INSECTICIDAL BAIT TOXICANTS			
abamectin	13.6	>2,000	Caution
hydramethylnon	1,131	>5,000	Caution
sulfluramid	543		Caution
ORGANOPHOSPHATE INSECTICIDES			
acephate	866-945	>2,000	Caution
chlorpyrifos	82-245	202-2,000	Warning
chlorpyrifos-methyl	941-3,733	>2,000	Warning
cythioate	160	>2,500	Warning
diazinon	300-400	3,600	Warning/Caution
dichlorvos, DDVP	56-80	75-107	Danger
dimethoate	28-500	>150-1,150	Warning
dioxathion	19-176	53-350	Danger/Warning
disulfoton	2-12	6-25	Danger
fenitrothion	250-740	200->3,000	Warning
fenthion	255-740	1,680-2,830	Warning
malathion	885-2,800	4,000->4,444	Caution
methomyl	17-24		Caution
naled	250-430	800-1,100	Danger
pirimiphos-methyl	2,050	>2,000->4,000	Caution
propramphos	119	2,825	Warning/Caution
ronnel	1,740	1,000-2,000	Caution
temephos	1,000-13,000	>4,000	Caution
trichlorfon	450-630	>2,000	Warning

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INSECT REPELLENTS			
R-874	8,500		Caution
deet	1,950-2,000	10,000	Caution
dibutyl pththalate	12,000->20,000		Caution
dimethyl phthalate	6,900-8,200	>4,000	Warning
MGK 326	5,230-7,320	9,400	Caution
permethrin	430-4,000	>4,000	Warning/Caution
SOLVENTS (considered as active ingredients)			
petroleum distillates			
INSECTICIDE SYNERGISTS			
piperonyl butoxide	6,150->7,500	>7,950	Caution
MGK 264	2,800	>9,000	Caution
AVICIDES			
fenthion	255-740	1,680-2,830	Warning
4-aminopyridine	20		Caution/Danger
RODENTICIDES			
Antigoagulants			
brodifacoum	0.27	50	Caution
bromadiolone	1.13		Caution
chlorophacinone	20.5		Caution
difethialone	0.51-0.56		Caution
diphacinone	1.86-2.88		Caution
warfarin	1-186		Caution
Nonanticoagulants			
bromethalin	2.0-5.9		Caution
cholecalciferol	40-50		Caution
strychnine	1-30		Danger
zinc phosphide	45		Danger/Caution
OTHER NEUROTRANSMITTER DISRUPTORS			
imidicloprid	1,858-2,591	>2,000	Caution
fipronil	100	>2,000	Warning

Sources: *Commercial and Experimental Organic Insecticides* (College Park, Md.: Entomological Society of America, 1985), 105; *Farm Chemicals Handbook* (Willoughby, Ohio: Meister Publishing, 1996); and *The Pesticide Manual*, 10th ed. (Surrey, England: British Crop Protection Council, 1994).

NOTE: Materials are listed by common chemical name; basic toxicity data (against laboratory animals), and signal words are generally listed on their product labels.