

Class	Chemical Name	LC50				EPA Aquatic Life Benchmark	
		Test Species	Test Type	Test Duration	Concentration	Acute (ug/L)	Chronic (ug/L)
INSECTICIDES pyrethroids	allethrin	freshwater invertebrates			2.1 ug/L	1.05	
	bifenthrin	c. dubia	water	4 day	142 ug/L	0.8	0.0013
		c. dilutus	water	4 day	69 ng/L		
		h. azteca	sediment	10 day	0.52 ug/g oc		
		h. azteca	water	4 day	7.7 ng/L		
	cyfluthrin	h. azteca	sediment	10 day	1.08 ug/L	0.0125	0.0074
		c. dilutus	sediment	10 day	2.34 ug/L		
	Cyhalothrin (lambda)	c. dilutus	sediment	10 day	2.8 ug/g	0.0035	0.002
		h. azteca	sediment	10 day	0.45 ug/L		
	Cypermethrin (total)	c. dubia	water	4 day	683 ng/l	0.21	0.069
		h. azteca	sediment	10 day	0.38 ug/g oc		
		h. azteca	water	4 day	1.24 ng/L		
	deltamethrin	h. azteca	sediment	10 day	0.79 ug/g		
	permethrin	c. dubia	water	4 day	250 ng/L	0.0195	0.0014
		c. dilutus	water	4 day	210 ng/L		
c. dilutus		sediment	10 day	24.5 ug/g oc			
h. azteca		sediment	10 day	201 ng/g			
h. azteca		water	4 day	21.1 ng/L			
phenothrin	d. magna		48 hour	4.4 µg/L	2.2	0.47	
indoxacarb	c. dilutus	sediment	10 day	11.3 ug/g	300	75	
resmethrin	d. magna		48 hour	3.01 ug/L	1.55		
tefluthrin					0.035	0.008	
INSECTICIDES carbamates	carbaryl					0.85	0.5
	carbofuran					1.115	0.75
	methomyl					2.5	0.7
INSECTICIDES phenylpyrazoles	fipronil	c. dubia	water	4 day	17.7 ug/L	0.11	0.011
		h. azteca	water	4 day	0.728 ug/L		
		c. dilutus	water	4 day	0.033 ug/L		
	Fipronil sulfide (urban use)	c. dilutus	sediment	10 day	1.11 ng/L		
	Fipronil sulfone (urban use)	c. dilutus	sediment	10 day	0.83 ng/g	0.36	0.037
INSECTICIDES neonicotinoids	imidacloprid	c. dubia	water	4 day	72124.9 ug/L	0.385	0.01
		c. dilutus	water	4 day	2.65 ng/L		
		h. azteca	water	4 day	65.4 ug/L		
		h. azteca	water	10 day	7.01 ug/L		
	thiacloprid					18.9	0.97
chlorpyrifos	c. dubia	water	4 day	0.023 ug/L	0.05	0.04	
	c. dilutus	water	4 day	0.29 ug/L			

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INSECTICIDES organophosphates	chlorpyrifos	h. azteca	sediment	10 day	1.77 ug/g oc	0.05	0.04
		h. azteca	water	10 day	86 ng/L		
	diazinon	c. dubia	water	4 day	0.164 ug/L	0.105	0.17
		c. dilutus	water	4 day	10.7 ng/L (g)		
		h. azteca	sediment	10 day	54.6 ug/g oc		
	dimethoate	c. dilutus	water	4 day	1.29 ug/L	21.5	0.5
	dichlorvos	c. dubia	water	4 day	0.149 ug/L	0.035	0.0058
	malathion	c. dubia	water	4 day	2,120 ng/L	0.049	0.06
		c. dilutus	water	4 day	613.8 ng/L		
h. azteca		water	4 day	190 ng/L			
HERBICIDES	alachlor					1250	110
	atrazine					360	60
	benfluralin					1090	15.5
	bensulide					290	11
	bromacil					60500	8200
	dicamba					> 50000	
	dinoseb						7
	diuron					80	200
	ethalfluralin					30	24
	metolachlor					550	1
	oryzalin					750	358
	oxyfluorfen	c. dilutus	sediment	10 day	630 ug/lg oc	750	13
		h. azteca	sediment	10 day	>6140 ug/g oc		
	pendimethalin					140	14.5
	prodiamine					> 6.5	1.5
	prometon					12850	3450
	simazine					500	40
	sulfameturon						
	tebuthiuron					148500	21800
	triclopyr					66450	
thiazapyr							
trifluralin					125.5	2.4	
FUNGICIDES	azoxystrobin					130	44
	methoxyfenoxide					25	6.3
OTHER	esfenvalerate	h. azteca	sediment	10 day	1.54 ug/g oc	0.025	0.017
	chlorfenapyr					2.915	3.57
	Piperonyl butoxide (synergist)					255	30