

TABLE 5
ENVIRONMENTAL TOXICITY DATA FOR CHEMICALS LISTED UNDER EPCRA SECTION 313

CAS NO.	Chemical	Status	Basis	Species	Parameter	Value	Units	Comments
DIRECT ENVIRONMENTAL TOXICITY								
071751-41-2	Abamectin	F	CrE	Daphnid	LC50:	0.34	ppb/48-hr	
				Rainbow trout	LC50:	3.6	ppb/96-hr	
				Bluegill	LC50:	9.6	ppb/96-hr	
000116-06-3	Aldicarb	F	E	Bluegill	LC50:	50	ppb/96-hr	
				Daphnid	EC50:	51	ppb/46-hr	
				Daphnid	LC50:	70	ppb/48-hr	
				California quail: male	LD50:	2.58	mg/kg	oral
				California quail: female	LD50:	4.67	mg/kg	oral
				Mallard duck: female	LD50:	3.4	mg/kg	oral
000834-12-8	Ametryn	F	CrE	Green algae	EC50:	14	ppb/72-hr	
000101-05-3	Anilazine	F	CrE	Scud (Gammarus)	LC50:	0.27	ppb/96-hr	
				Oyster	EC50:	46	ppb/96-hr	EC50 (growth)
022781-23-3	Bendiocarb	F	CrE	Mysid	EC50:	6.7	ppb/96-hr	
				Daphnid	EC50:	29.2	ppb/48-hr	
				Mallard Duck	LD50:	3.1	mg/kg	
082657-04-3	Bifenthrin	F	CrE	Bluegill	LC50:	0.35	ppb/96-hr	
				Rainbow trout	LC50:	0.15	ppb/96-hr	
				Sheepshead minnow	LC50:	17.5	ppb	
				Daphnid	EC50:	1.6	ppb/48-hr	
000056-35-9	Bis(tributyltin) oxide	F	CrE	Daphnid	LC50:	1.67	ppb/48-hr	
				Fathead minnow	LC50:	2.7	ppb/96-hr	
				Rainbow trout	LC50:	6.9	ppb/96-hr	
				Bluegill	LC50:	7.6	ppb/96-hr	
001563-66-2	Carbofuran	F	E	Daphnid	EC50:	35	ppb/48-hr	
				Bluegill	LC50:	80	ppb/96-hr	
				Mallard duck: female	LD50:	0.397	mg/kg	oral
				Mallard duck: male	LD50:	0.48	mg/kg	oral
				Ring necked pheasant: female	LD50:	4.15	mg/kg	oral
000076-06-2	Chloropicrin	F	E	Rainbow trout	LC50:	16.5	ppb/96-hr	
				Bluegill	EC50:	80	ppb/48-hr	
				Bluegill	LC50:	105	ppb/96-hr	
005598-13-0	Chlorpyrifos methyl	F	CrE	Daphnid	LC50:	1.11	ppb/48-hr	
				Rainbow trout	LC50:	12.6	ppb/96-hr	
068359-37-5	Cyfluthrin	F	CrE	Daphnid	EC50:	0.14	ppb/48-hr	
				Rainbow trout	LC50:	0.68	ppb/96-hr	
				Bluegill	LC50:	1.5	ppb/96-hr	
000333-41-5	Diazinon	F	CrE	Daphnid	LC50:	0.9	ppb/96-hr	
				Rainbow trout	LC50:	90	ppb/96-hr	
				Mallard duck: male	LD50:	3.54	mg/kg	oral
				Pheasant: male	LD50:	4.33	mg/kg	oral
000097-23-4	Dichlorophene	F	CrE	Spicodiotomus (calanoid cop)	LC50:	50	ppb/48-hr	
035367-38-5	Diflubenzuron	F	CrE	Daphnid	LC50:	4.55	ppb/48-hr	
000088-85-7	Dinitrobutyl phenol (Dinoseb)	F	CrE	Fathead minnow	LC50:	88	ppb/96-hr	old name: Dinoseb
039300-45-3	Dinocap	F	CrE	Rainbow trout	LC50:	15	ppb	
				Bluegill	LC50:	20	ppb	
000330-54-1	Diuron	F	CrE	Marine green algae	EC50:	10	ppb/1.5-hr	
002439-10-3	Dodine	F	E	Daphnid	EC50:	17.8	ppb/48-hr	
013194-48-4	Ethoprop	F	CrE	Mysid	LC50:	7.5	ppb/96-hr	
				Shrimp	LC50:	13	ppb/96-hr	
				Daphnid	EC50:	93	ppb/48-hr	
				Ring necked pheasant	LC50:	4.2	mg/kg/14-d	oral
				Mallard duck	LC50:	12.6	mg/kg/14-d	oral
000052-85-7	Famphur	F	CrE	Red-winged blackbird	LC50:	1.78	mg/kg	oral
				Mallard duck	LC50:	3.45	mg/kg	oral; 35% a.i.
				Starling	LC50:	4.22	mg/kg	oral

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013356-08-6	Fenbutatin oxide	F	CrE	Rainbow trout	LC50:	1.7	ppb/96-hr	
				Fathead minnow	LC50:	1.9	ppb/96-hr	
				Daphnid	EC50:	3.1	ppb/48-hr	
				Bluegill	LC50:	4.8	ppb/96-hr	
				Sheepshead minnow	LC50:	20.8	ppb/96-hr	
066441-23-4	Fenoxaprop ethyl	F	CrE	Quail	LD50:	0.007	mg/kg	oral
				Mysid	EC50:	98	ppb/96-hr	
039515-41-8	Fenpropathrin	F	CrE	Bluegill	LC50:	2.2	ppb/96-hr	
				Rainbow trout	LC50:	2.3	ppb/96-hr	
				Sheepshead minnow	LC50:	3.1	ppb/96-hr	
				Daphnid	EC50:	0.53	ppb/48-hr	
				Brown shrimp	EC50:	0.024	ppb/48-hr	
000055-38-9	Fenthion	F	CrE	Daphnid	LC50:	0.62	ppb/48-hr	
				Scud	EC50:	110	ppb/96-hr	
				Bobwhite quail: male	LD50:	4	mg/kg	oral
				Mourning dove	LD50:	4.63	mg/kg	oral
				Mallard duck	LD50:	5.94	mg/kg	oral
051630-58-1	Fenvalerate	F	CrE	Daphnid	LC50:	0.05	ppb/48-hr	
				Bluegill	LC50:	0.26	ppb/96-hr	
				Fathead minnow	LC50:	0.33	ppb/96-hr	
				Rainbow trout	LC50:	1.2	ppb/96-hr	
				Atlantic salmon	LC50:	1.2	ppb/96-hr	
				Sheepshead minnow	LC50:	4.4	ppb/96-hr	
014484-64-1	Ferbam	F	CrE	Eastern Oyster	LC50:	52	ppb/96-hr	
				Daphnid	LC50:	90	ppb/48-hr	
				Guppy	LC50:	90	ppb/96-hr	
069409-94-5	Fluvalinate	F	CrE	Daphnid	EC50:	0.4	ppb/48-hr	
				Bluegill	LC50:	0.9	ppb/96-hr	
				Rainbow trout	LC50:	2.9	ppb/96-hr	
				Sheepshead minnow	LC50:	10.8	ppb/96-hr	
000133-07-3	Folpet	F	CaE	Rainbow trout	LC50:	39	ppb/96-hr	
				Bluegill	LC50:	72	ppb/96-hr	
051235-04-2	Hexazinone	F	CrE	S.capricornutum	EC50:	7	ppb	
00465-73-6	Isodrin	F	E	Minnow	LC50:	6	ppb/24-hr	
				Bluegill	LC50:	12	ppb/24-hr	
025311-71-1	Isofenphos	F	CrE	Daphnid	EC50:	1.6	ppb/48-hr	
				Mysid	EC50:	1.7	ppb/96-hr	
000121-75-5	Malathion	F	CrE	Daphnid	EC50:	0.9	ppb/48-hr	
				Sheepshead minnow	LC50:	51	ppb/96-hr	
				Rainbow trout	LC50:	68	ppb/96-hr	
				Lake trout	LC50:	76	ppb/96-hr	
000149-30-4	2-Mercaptobenzothiazole	F	E	Rainbow trout	MATC:	78	ppb/60-d	chronic; MATC:41-78 ppb/60-d
				Daphnid	MATC:	470	ppb/21-d	chronic; MATC:240-470 ppb/21-d
000556-61-6	Methyl isothiocyanate	F	E	Daphnid	LC50:	55	ppb/48-hr	
				Fish	LC50:	94	ppb/96-hr	
				Bluegill	LC50:	130	ppb/96-hr	
000298-00-0	Methyl parathion	F	CrE	Daphnid	EC50:	0.14	ppb/48-hr	
				Crayfish	LC50:	15	ppb/96-hr	
007786-34-7	Mevinphos	F	E	Daphnid	LC50:	0.16	ppb/96-hr	
				Bluegill	LC50:	70	ppb/96-hr	
				Sharp-tailed grouse	LD50:	1.34	mg/kg	oral
				Pheasant	LD50:	1.37	mg/kg	oral
				Mallard duck	LD50:	4.63	mg/kg	oral
000150-68-5	Monuron	F	E	Marine algae	EC50:	90	ppb/1.5-hr	
				Marine algae	EC50:	100	ppb/10-d	
000300-76-5	Naled	F	CrE	Daphnid	EC50:	0.35	ppb/48-hr	
				Lake trout	EC50:	87	ppb/96-hr	

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010028-15-6	Ozone	F	CrE	Rainbow trout	LC50:	9.3	ppb/96-hr	
				Channel catfish	LC50:	30	ppb/96-hr	
				Striped bass	LC50:	80	ppb/96-hr	
052645-53-1	Permethrin	F	CrE	Daphnid	LC50:	0.32	ppb/48-hr	
				Rainbow trout	LC50:	0.62	ppb/96-hr	
				Silverside	LC50:	2.2	ppb/96-hr	
				Bluegill	LC50:	2.52	ppb/96-hr	
				Fathead minnow	LC50:	3.5	ppb/96-hr	
026002-80-2	Phenothrin	F	CrE	Rainbow trout	LC50:	16.7	ppb/96-hr	
				Goldfish	LC50:	100	ppb/48-hr	
000624-18-0	1,4-Phenylenediamine dihydrochloride	F	E	Fish	LC50:	60	ppb/96-hr	
000051-03-6	Piperonyl butoxide	F	E	Rainbow trout	LC50:	3.4	ppb/96-hr	
				Bluegill	LC50:	4.2	ppb/96-hr	
002312-35-8	Propargite	F	CrE	Bluegill	LC50:	31	ppb	
010453-86-8	Resmethrin	F	CrE	Rainbow trout	LC50:	.275	ppb/96-hr	89% a.i.
				Bluegill	LC50:	.75	ppb/96-hr	89% a.i.
				Lake trout	LC50:	1.7	ppb/96-hr	89.5% a.i.
				Fathead minnow	LC50:	3	ppb/96-hr	
				Bear	LC50:	1	mg/kg	oral; LD50:0.5-1.0 mg/kg
000062-74-8	Sodium fluoroacetate	F	CrE	Mule deer	LC50:	.44	mg/kg	oral; LD50:0.22-0.44 mg/kg
				Ferret: male	LC50:	1.41	mg/kg	oral
				Starling	LC50:	2.37	mg/kg	oral
				Red-winged blackbird	LC50:	4.22	mg/kg	oral
				House sparrow	LC50:	3	mg/kg	oral
				Golden eagle	LC50:	5	mg/kg	oral; LD50: 1.25-5 mg/kg
				000131-52-2	Sodium pentachlorophenate	F	CaE	Fathead minnow
Bluegill	LC50:	44	ppb/96-hr					
Rainbow trout	LC50:	55	ppb/96-hr					
Shrimp	LC50:	84	ppb/96-hr					
Bluegill	LC50:	21	ppb/96-hr					mixed isomers, technical product
007696-12-0	Tetramethrin	F	CrE	Bluegill	LC50:	69	ppb/96-hr	
				Bluegill	LC50:	69	ppb/96-hr	
000148-79-8	Thiabendazole	F	CrE	Daphnid	EC50:	.31	ppb/48-hr	
				Mysid	LC50:	340	ppb/96-hr	
				Rainbow trout	LC50:	560	ppb/96-hr	
028249-77-6	Thiobencarb	F	E	Green algae	LC50:	30	ppb/72-hr	population reduction
				Chinook salmon	LC50:	760	ppb/96-hr	
				Striped bass	LC50:	760	ppb/96-hr	
				Rainbow trout	LC50:	790	ppb/96-hr	
059669-26-0	Thiodicarb	F	CrE	Eastern Oyster	LC50:	10	ppb/96-hr	
				Daphnid	EC50:	27	ppb/48-hr	
				Mysid	LC50:	29.3	ppb/96-hr	
				Algae	EC50:	450	ppb/96-hr	
				Sheepshead minnow	LC50:	530	ppb/96-hr	
				Bluegill	LC50:	1470	ppb/96-hr	
001983-10-4	Tributyltin fluoride	F	E	Herpacticoid copepod	LC50:	0.8	ppb/96-hr	
				Bleak fish	LC50:	2.3	ppb/96-hr	
				Algae	EC50:	9.3	ppb/72-hr	
000639-58-7	Triphenyltin chloride	F	CrE	Marine green algae	EC50:	.92	ppb/72-hr	
				Freshwater green algae	EC50:	2	ppb/8-day	
				Carp	LC50:	55	ppb/48-hr	
000076-87-9	Triphenyltin hydroxide	F	CrCaE	Fathead minnow	LC50:	5.4	ppb/96-hr	
				Marine green algae	LC50:	13.9	ppb/72-hr	
				Rainbow trout	LC50:	15	ppb/96-hr	
				Bluegill	LC50:	23	ppb/96-hr	
DIRECT ENVIRONMENTAL TOXICITY & BIOACCUMULATION/PERSISTENCE								
000319-84-6	alpha-Hexachlorocyclohexane	F	CaE	Daphnid	EC50:	800	ppb/48-hr	bioaccumulation

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CAS NO.	Chemical	Status	Basis	Species	Parameter	Value	Units	Comments
067485-29-4	Hydramethylnon	F	CrE	Channel catfish	LC50:	90	ppb/96-hr	bioaccumulation (BAFs listed)
042874-03-3	Oxyfluorfen	F	CrE	Fish	MATC:	9	ppb	chronic; bioaccumulation
				Daphnid	MATC:	20	ppb	chronic
000085-01-8	Phenanthrene	F	E	Daphnid	LC50:	700	ppb/48-hr	bioaccumulation
				Rainbow trout	LC50:	40	ppb/28-d	teratogenic effects were also noted
-NA-	Polychlorinated alkanes	F	CaE	Mysid shrimp	LC50:	14	ppb/96-hr	persistence; old name: Chlorinated paraffins
				Marine algae	LC50:	42	ppb/96-hr	
				Daphnid	LC50:	46	ppb/48-hr	
035400-43-2	Sulprofos	F	CrE	Bluegill	LC50:	1030	ppb/96-hr	bioaccumulation; technical product
				Bluegill	LC50:	11000	ppb/96-hr	
000078-48-8	S,S,S-Tributyltrithiophosphate	F	CrE	Bluegill	LC50:	620	ppb/96-hr	bioaccumulation
				Rainbow trout	LC50:	660	ppb/96-hr	
INDIRECT ENVIRONMENTAL TOXICITY								
000075-72-9	Chlorotrifluoromethane (CFC-13)	F	CaE	Plants				indirect; ozone depletion; reduction in yield
	Hydrochlorofluorocarbons (16 HCFCs)							
127564-92-5	Dichloropentafluoropropane	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
136016-79-1	1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
128903-21-9	2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
111512-56-2	1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
013474-88-9	1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000507-55-1	1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000431-86-7	1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000422-56-0	3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000422-48-0	2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000422-44-6	1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000075-43-4	Dichlorofluoromethane (HCFC-21)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000354-11-0	1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000354-14-3	1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
001649-08-7	1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000075-88-7	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
000460-35-5	3-Chloro-1,1,1-trifluoropropane (HCFC-253fb)	F	CrCaE	Aquatic organisms, plants				indirect; ozone depletion
	end HDFCs							
PETITION ADDITIONS								
	Chlorofluorocarbons (7 CFCs)							
000353-59-3	Bromochlorodifluoromethane (Halon 1211)	Pa	CrCaE					indirect; stratospheric ozone depletion
000075-63-8	Bromotrifluoromethane (Halon 1301)	Pa	CrCaE					indirect; stratospheric ozone depletion
000124-73-2	Dibromotetrafluoroethane (Halon 2402)	Pa	CrCaE					indirect; stratospheric ozone depletion
000075-71-8	Dichlorodifluoromethane (CFC-12)	Pa	CrCaE					indirect; stratospheric ozone depletion
000076-14-2	Dichlorotetrafluoroethane (CFC-114)	Pa	CrCaE					indirect; stratospheric ozone depletion
000076-15-3	Monochloropentafluoroethane (CFC-115)	Pa	CrCaE					indirect; stratospheric ozone depletion
000075-69-4	Trichlorofluoromethane (CFC-11)	Pa	CrCaE					indirect; stratospheric ozone depletion
	end CFCs							
000070-30-4	Hexachlorophene	Pa	CrE	Fathead minnow	LC50:	21	ppb/96-hr	
				Fish	LC50:	20	ppb/96-hr	based on QSAR analysis
				Bobwhite quail	LC50:	575	mg/kg	
				Mallard duck: female	LC50:	1450	mg/kg	
	Hydrochlorofluorocarbons (11 HCFCs)							
000075-68-3	1-Chloro-1,1-difluoroethane (HCFC-142b)	Pa	CrCaE					indirect toxicity; ozone depletion
000075-45-6	Chlorodifluoromethane (HCFC-22)	Pa	CrCaE					indirect toxicity; ozone depletion
063938-10-3	Chlorotetrafluoroethane	Pa	CrCaE					indirect toxicity; ozone depletion
000354-25-6	1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	Pa	CrCaE					indirect toxicity; ozone depletion
002837-89-0	2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	Pa	CrCaE					indirect toxicity; ozone depletion
001717-00-6	1,1-Dichloro-1-fluoroethane (HCFC-141b)	Pa	CrCaE					indirect toxicity; ozone depletion
034077-87-7	Dichlorotrifluoroethane	Pa	CrCaE					indirect toxicity; ozone depletion
090454-18-5	Dichloro-1,1,2-trifluoroethane	Pa	CrCaE					indirect toxicity; ozone depletion
000812-04-4	1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	Pa	CrCaE					indirect toxicity; ozone depletion

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000354-23-4	1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	Pa	CrCaE					indirect toxicity; ozone depletion
000306-83-2	2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123)	Pa	CrCaE					indirect toxicity; ozone depletion
	end HCFCs							
007783-06-4	Hydrogen sulfide	Pa	CrE	Fish	LC50:	776	ppb/96-hr	LC50:7-776 ppb/96-hr
000137-26-8	Thiram	Pa	CrE	Fish	LC50:	10.1	ppb/96-hr	LcC50:7.0-10.1 ppb/96-hr
				Fish	LC50:	270	ppb/96-hr	LC50:0.67-270 ppb/96-hr
				Daphnid	LC50:	8	ppb/21-d	
				Daphnid	LC50:	210	ppb/48-hr	
				Daphnid	LC50:	8200	ppb/96-hr	
				Algae	EC50:	1000	ppb/96-hr	
PETITION DENIALS								
-NA-	Antimony Compounds	Pd	CrCaE	Fish		<10	ppb	Antimony ion; chronic; petition for antimony tris(iso-octyl mercaptoacetate)
				Daphnid		<10	ppb	Antimony ion; chronic; petition for antimony tris(iso-octyl mercaptoacetate)
-NA-	Cadmium Compounds	Pd	CrCaE	Invertebrate/Fish		0.7-5.0	ppb	sublethal/chronic toxicity
				Invertebrate/Fish		0.8-9.9	ppb	acute toxicity
007440-50-8	Copper	Pd	CrE					water quality criteria exist
000110-82-7	Cyclohexane	Pd	ACrE	Plants				VOC; indirect toxicity from ozone; reduction in agricultural yield
000074-85-1	Ethylene	Pd	ACrE	Plants				VOC; indirect toxicity from ozone; reduction in agricultural yield
000090-43-7	2-Phenylphenol	Pd	CrCaE	Daphnid		2700	ppb	"aquatic toxicity"; persistence; petition name Ortho-phenylphenol
				Green Algae		25000	ppb	"aquatic toxicity"; persistence; petition name Ortho-phenylphenol
007664-38-2	Phosphoric acid	Pd	E					algal bloom @ 50ppb; eutrophication
000115-07-1	Propylene	Pd	ACrE	Plants				VOC; indirect toxicity from ozone; reduction in agricultural yield
-NA-	Zinc Compounds	Pd	CrE	Daphnid	LC50:	40	ppb/48-hr	zinc ion; no info on water hardness/48-hr
				Daphnid	LC50:	100	ppb/48-hr	zinc ion; water hardness: 48 mg/L CaCO3/48-hr
				Daphnid	LC50:	76000	ppb/48-hr	petition for zinc borate hydrate; calculated value
				Daphnid		70	ppb/21-d	zinc ion; chronic; reduced reproduction
				Rainbow trout	LC50:	2400	ppb/96-hr	petition for zinc borate hydrate
				Rainbow trout	LC50:	93	ppb/96-hr	zinc ion
				Rainbow trout fry	MATC	36-71	ppb	zinc ion; chronic toxicity data
				Cutthroat trout	LC50:	90	ppb/96-hr	zinc ion
				Mummichog larvae	LC50:	83000	ppb	zinc ion
				Atlantic silversides larvae	LC50:	2730	ppb	zinc ion
				Fathead minnow	MATC	30-180	ppb	zinc ion; chronic toxicity data; water hardness; 200 mg/L CaCO3
				Fathead minnow	MATC	78-145	ppb	zinc ion; chronic toxicity data; soft water
				Oyster	EC50:	310	ppb	zinc ion; calculated
				Shell crab	EC50:	166	ppb	zinc ion; calculated
				Algae	EC95:	68	ppb/14-d	zinc ion; chronic toxicity data; growth inhibition
				Algae		30	ppb/7-d	zinc ion; chronic toxicity data; growth inhibition