



ENVIRONMENTAL PROTECTION AGENCY

[EPA-HQ-OW-2023-0107; FRL 10680-01-OW]

Comparison of Aquatic Life Protective Values Developed for Pesticides Under the FIFRA and the CWA

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of availability.

SUMMARY: The U.S. Environmental Protection Agency (EPA) is announcing the availability of draft analyses comparing aquatic life benchmarks developed by the EPA's Office of Pesticides Programs (OPP) in support of registration decisions for pesticides under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) to existing national recommended aquatic life Ambient Water Quality Criteria and criteria-related values developed under the Clean Water Act (CWA) for the protection of aquatic life from pesticides. The EPA's draft analyses show that the values developed under these statutes are similarly protective of aquatic life and that the most sensitive OPP aquatic life benchmarks, which are updated regularly to include the latest science, could also serve as CWA section 304(a)(1) recommended aquatic life criteria or 304(a)(2) informational benchmarks for pesticides. The EPA will accept public comments on the draft analyses and potential application of OPP aquatic life benchmarks for CWA 304(a) purposes for 30 days upon publication in the *Federal Register*.

DATES: Comments must be received on or before [INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments, identified by Docket ID No. EPA-HQ-OW-2023-0107, by any of the following methods:

- Federal eRulemaking Portal: <https://www.regulations.gov/> (our preferred method). Follow the online instructions for submitting comments.

- Agency Web Site: <https://www.epa.gov/wqc/common-effects-methodology-pesticides>. Follow the online instructions for submitting comments.
- Mail: U.S. Environmental Protection Agency, EPA Docket Center, Office of Water Docket, Mail Code 28221T, 1200 Pennsylvania Avenue NW, Washington, DC 20460.
- Hand Delivery or Courier: EPA Docket Center, WJC West Building, Room 3334, 1301 Constitution Avenue, NW, Washington, DC 20004. The Docket Center's hours of operations are 8:30 a.m. – 4:30 p.m., Monday – Friday (except Federal Holidays).

Instructions: All submissions received must include the Docket ID No. for this Notice of Availability. Comments received may be posted without change to <https://www.regulations.gov/>, including any personal information provided. For detailed instructions on sending comments and additional information on the public comment, see the “Public Participation” heading of the **SUPPLEMENTARY INFORMATION** section of this document.

FOR FURTHER INFORMATION CONTACT: Christine Bergeron, Health and Ecological Criteria Division, Office of Water (Mail Code 4304T), Environmental Protection Agency, 1200 Pennsylvania Avenue NW, Washington, D.C. 20460; telephone number: (202) 566-0629; e-mail: Bergeron.christine@epa.gov.

SUPPLEMENTARY INFORMATION:

I. Public Participation

Submit your comments, identified by Docket ID No. EPA-HQ-OW-2023-0107, at <https://www.regulations.gov> (our preferred method)), or the other methods identified in the **ADDRESSES** section. Once submitted, comments cannot be edited or removed from the docket. The EPA may publish any comment received to its public docket. Do not submit to EPA's docket at <https://www.regulations.gov> any information you consider to

be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Multimedia submissions (audio, video, etc.) must be accompanied by a written comment. The written comment is considered the official comment and should include discussion of all points you wish to make. The EPA will generally not consider comments or comment contents located outside of the primary submission (i.e., on the web, cloud, or other file sharing system). Please visit <https://www.epa.gov/dockets/commenting-epa-dockets> for additional submission methods; the full EPA public comment policy; information about CBI or multimedia submissions; and general guidance on making effective comments.

II. Purpose and Background

A. What is the Purpose of this Action?

The purpose of this action is to request comment on: 1) the EPA's draft analyses comparing aquatic life benchmarks developed by the EPA's Office of Pesticides Programs (OPP) in support of registration decisions for pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) to existing national recommended aquatic life Ambient Water Quality Criteria (AWQC) and criteria-related values (e.g., values developed using assessment or safety factors) developed under the Clean Water Act (CWA) for the protection of aquatic life from pesticides, and 2) the potential application of OPP aquatic life benchmarks for CWA 304(a) purposes, either as 304(a)(1) recommended criteria or 304(a)(2) informational benchmarks, and 3) whether the eight current pesticide criteria values that also have OPP benchmarks should be updated with the most sensitive OPP benchmark value and retained as CWA section 304(a)(1) aquatic life AWQC. The EPA prepared these draft analyses to support the agency's effort to harmonize aquatic life effects assessment methods for pesticides across statutes and to provide a common basis for achieving water quality protection under the FIFRA and the CWA by leveraging work across the agency. This collaborative effort promotes

consistency and efficiency in the EPA's effects assessments for pesticides to protect aquatic life.

B. Background

1. CWA section 304(a)(1) National Recommended Ambient Water Quality Criteria for Aquatic Life

National recommended AWQC for the protection of aquatic life are numeric concentrations of pollutants in surface waters that are expected to protect against unacceptable adverse ecological effects to aquatic life resulting from exposure to pollutants found in water with specific recommendations on the duration and frequency of those concentrations (<https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table>). CWA section 304(a)(1) directs the EPA to develop and publish AWQC recommendations that reflect the latest scientific knowledge. Generally, the EPA develops 304(a)(1) aquatic life AWQC recommendations following the “*Guidelines for Deriving Numerical Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses*” (U.S. EPA 1985) (“Guidelines”), an approach that encourages collecting toxicity data for a broad range of aquatic organisms, specified by the recommended eight Minimum Data Requirements (MDRs), to ensure, with high confidence, that the AWQC will be protective of aquatic communities. AWQC are based solely on data and scientific judgments about the relationship between pollutant concentrations and the potential effects on aquatic organisms. The EPA's recommended AWQC are not regulatory, nor do they automatically become part of a State's water quality standards. States and authorized Tribes may adopt these criteria into their water quality standards (WQS) to protect the designated uses of water bodies. States and authorized Tribes may also modify these criteria to reflect site-specific conditions before adopting these into standards or use other scientifically defensible methods to develop criteria.

2. CWA section 304(a)(2) Aquatic Life Benchmarks

Aquatic life benchmarks, developed under CWA section 304(a)(2), are informational values that the EPA generates when there are limited high-quality data available to develop 304(a)(1) AWQC, because data gaps exist for several aquatic organism families. These data gaps can be addressed using new approach methods, such as mathematical extrapolation tools, read-across from other chemicals with similar structures, or other information. The EPA develops aquatic life benchmarks to provide information that States and Tribes may consider in their water quality protection programs including development of water quality criteria. Like AWQC, the EPA's CWA section 304(a)(2) aquatic life benchmark values are not regulatory, nor do they automatically become part of a State's or Tribe's water quality standards.

3. OPP Aquatic Life Benchmarks

Aquatic life benchmarks developed by OPP are based on the EPA's analysis of available high-quality data on the potential effects of pesticides on the aquatic community and support registration decisions for pesticides under the FIFRA. These benchmarks are estimates of the concentrations below which pesticides are not expected to present a risk of concern for aquatic organisms (<https://www.epa.gov/pesticide-science-and-assessing-pesticide-risks/aquatic-life-benchmarks-and-ecological-risk>). EPA regularly updates the benchmarks to reflect the latest scientific information submitted under FIFRA. Federal, State, Tribal and local governments use these benchmarks in their interpretation of water monitoring data.

III. Overview of Harmonized Approach and Draft Comparative Analysis

The EPA has been working since 2009 to harmonize OPP's benchmarks and CWA section 304(a) aquatic life effects assessments in response to States and other stakeholders questioning the differences between these two approaches. In 2010, the EPA notified the public of multiple stakeholder meetings held when the agency first

considered harmonizing aquatic effects assessments for pesticides under the FIFRA and the CWA. *See* <https://www.regulations.gov/docket/EPA-HQ-OPP-2009-0773>. In 2011, the agency solicited public comments as part of the 2012 FIFRA Scientific Advisory Panel (SAP) review of the EPA analyses regarding potential approaches. *See* <https://www.regulations.gov/docket/EPA-HQ-OPP-2011-0898>. The SAP made recommendations to develop an approach to harmonize OPP's benchmarks and CWA section 304(a) aquatic life criteria recommendations. The EPA focused on comparing the relative magnitude of the values derived using the respective FIFRA and CWA methods to examine whether the different effects assessment approaches yield similar results. This approach facilitates an efficient harmonization outcome of adopting the OPP benchmark values for the protection of aquatic life. For the draft comparative analyses, the EPA evaluated aquatic toxicity data for select insecticides and herbicides from different chemical classes and with different modes of action to compare the protective aquatic effect values developed by OPP and OW. These draft analyses are described in the "Comparison of Aquatic Life Protective Values Developed for Pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Clean Water Act (CWA)" (US EPA 2024, EPA-820-D-24-002), which is being made available for public comment in this notice of availability. The draft analyses demonstrate that the OPP benchmarks are similarly protective of aquatic life as the EPA's existing national recommended AWQC for pesticides, as well as criteria-related values developed for CWA purposes. For example, the most sensitive OPP benchmark for a given pesticide is generally lower than the corresponding current nationally recommended CWA 304(a)(1) criterion for that pesticide, with the OPP benchmarks being within a factor of two of the current 304(a)(1) criteria. The differences between the most sensitive OPP benchmarks and criteria-related values developed when toxicity data are limited are generally within the variability reported in the literature for toxicity tests repeated within a laboratory and

tests conducted in different laboratories (5-10X).

The OPP benchmarks reflect the latest scientific knowledge regarding the effects of a given pesticide on the aquatic environment, consistent with the requirement under CWA section 304(a) for establishing recommended AWQC. Most of the pesticides with OPP benchmarks do not have sufficient data available to meet the Guidelines' recommended eight MDRs for aquatic life AWQC development. Accordingly, strict adherence to the MDR recommendations in the Guidelines would result in far fewer AWQC for pesticides for which OPP has developed robust benchmarks. Thus, in this action, the EPA is proposing to rely on these available, science-based OPP values for pesticides to develop 304(a) values for pesticides for future consideration and potential use by States and Tribes in establishing water quality standards for their waters.

IV. Development of CWA 304(a) Values for Pesticides

In light of these comparative analyses showing that OPP benchmarks are similarly protective of aquatic life as the EPA's existing CWA section 304(a) national recommended AWQC and criteria-related values, the EPA is considering recommending these OPP benchmarks as CWA section 304(a) aquatic life values. A list of the 757 anticipated CWA 304(a) aquatic life protective values based on the OPP pesticide benchmarks is presented in Table 1. Specifically, the EPA is requesting comment on whether to utilize the most sensitive OPP aquatic life benchmarks across all tested species for each pesticide as CWA 304(a)(1) recommended AWQC or 304(a)(2) informational aquatic life benchmarks, with the following exceptions:

- When plants are the most sensitive taxonomic group overall for a given pesticide, the EPA would include protective values for both the plant and most sensitive animal (vertebrate or invertebrate). If the lowest OPP benchmark is a freshwater or estuarine/marine nonvascular plant, the CWA value will be identified accordingly.

- CWA values for pesticide mixtures are not included.

Consistent with the EPA's current approach for AWQC for the protection of aquatic life, the agency intends to recommend use of standard parameters for duration (one hour for acute effects, 4-day for chronic effects) and frequency (not to be exceeded more than once in three years) for the CWA 304(a) aquatic life value.

V. The EPA's Request for Comments and Next Steps

The EPA will consider and evaluate all public comments and is most interested in receiving comments regarding the following three topics: 1) the comparison of approaches outlined in "Comparison of Aquatic Life Protective Values Developed for Pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Clean Water Act (CWA)," 2) whether the CWA values should be accepted as CWA section 304(a)(1) aquatic life AWQC or as CWA section 304(a)(2) informational aquatic life benchmarks for pesticides if the agency concludes it will use OPP benchmarks as CWA 304(a) values, and 3) whether the eight current pesticide criteria values that also have OPP benchmarks should be updated with the most sensitive OPP benchmark value and retained as CWA section 304(a)(1) aquatic life AWQC. Updating these eight data-rich pesticides with the OPP benchmark information would reflect the latest scientific knowledge.

If the EPA pursues this approach, the agency would undertake subsequent efforts to publish CWA 304(a) aquatic life values for over 750 pesticides that States and Tribes may consider in their water quality protection programs. The CWA 304(a) values would be regularly updated to reflect the latest scientific information submitted under FIFRA and would represent the best available science regarding the aquatic life effects of pesticides.

Table 1: Anticipated Clean Water Act 304(a) Protective Aquatic Life Values for Pesticides

Dash (-) in the Plant column indicates the animal value is lower than the plant value, so no plant value is displayed, or no OPP benchmark value for plants available.

Dash (-) in the Animal column indicates that no OPP benchmark value is available for animals.

CWA Priority Pollutants are denoted with an asterisk (*).

Bolded text indicates there is a CWA 304(a)(1) Aquatic Life Ambient Water Quality Criteria value available for the chemical.

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
1	1,2-Benzisoxazol-3(2H)-one, 2-butyl (BBIT)	-	270	88	280	19	23.5	2.6	-
2	1,2-benzisothiazolin-3-one (BIT)	-	270	-	280	19	-	-	-
3	1,3-PAD	15	36.5	9.8	-	-	-	-	-
4	1-Naphthalene acetic acid (NAA)	4200	14000	-	1200	-	-	-	-
5	1-Naphthaleneacetamide (NAD)	4200	14000	-	1200	-	6500	-	-
6	2,4-Dichlorophenoxyacetic acid (2,4-D)	299.2	12500	-	-	-	-	-	-
7	2,4-D acids and salts	299.2	12500	-	16050	-	-	-	-
8	2,4-D esters	-	130	-	79.2	152	-	-	-
9	2,4-D, 2-ethylhexyl ester	330	1700	-	79.2	152	-	-	-
10	2,4-D, Butcarethyl ester	-	214	-	200	-	-	-	-
11	2,4-D, Diethanolamine salt	299.2	>40800	-	16050	-	-	-	-
12	2,4-D, Dimethylamine salt	3880	-	-	23600	-	-	-	-
13	2,4-D, Isopropyl ester	-	130	-	-	-	-	-	-
14	2,4-DB (4-(2,4-dichlorophenoxy) butyric acid)	83	7150	-	1500	-	-	-	-
15	2,4-DB-DMAS (2,4-DB, dimethylamine 4- (2,4-dichlorophenoxy) butyrate)	83	7150	-	1500	-	-	-	-
16	3-Trifluoromethyl-4-Nitrophenol (TFM)	-	300	-	1790	-	-	-	-
17	4-aminopyridine	-	185	-	-	-	-	-	-
18	Abamectin	-	0.17	-	0.52	-	0.01	-	-
19	Abscisic Acid	-	>58000	-	-	-	-	-	-
20	Acephate	-	550	-	150	-	1900	5000	-
21	Acequinocyl	-	2.6	-	0.98	-	0.47	-	6.7
22	Acetaminophen	-	14750	-	-	-	-	-	-
23	Acetamiprid	-	10.5	-	2.1	-	33	1000	-
24	Acetic acid	-	32500	-	-	-	-	-	-
25	Acetochlor	1.43	190	0.12	22.1	-	1050	-	740
26	Acetochlor degradate ethanesulfonic acid (ESA)	9900	>62500	-	-	-	-	-	-
27	Acibenzolar	>423	440	3.3	26	-	295	-	49
28	Acrolein*	-	3.5	-	7.1	-	27.5	-	16

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
29	Afidopyropen	-	1020	-	0.123	2040	2245	-	<80
30	Alachlor	1.64	900	0.035	110	-	1200	-	410
31	Alachlor ethane sulfonic acid	3600	>52000	-	-	-	-	-	-
32	Alachlor oxanilic acid	-	>47500	-	-	-	-	-	-
33	Aldicarb	-	10	-	0.46	-	6	-	50
34	Aldicarb degradate "Aldicarb sulfone"	-	140	-	-	-	-	-	-
35	Aldicarb degradate "Aldicarb sulfoxide"	-	21.5	-	-	-	-	-	-
36	Allethrin	-	1.05	-	-	-	-	-	-
37	Alpha-Chlorohydrin	-	486000	-	-	-	-	-	-
38	Alpha-Cypermethrin	-	0.0018	-	0.00059	-	0.0027	-	0.125
39	Alpha-cypermethrin degradate (3-phenoxybenzoic acid) 3-phenoxybenzoic acid	-	6650	-	-	-	-	-	-
40	Aluminum Phosphide	-	-	-	-	-	-	-	-
41	Ametoctradin	7.8	>32.3	-	44	-	>47	-	-
42	Ametryn	3.67	1800	1.14	240	-	1150	-	-
43	Amicarbazone	210	>59500	-	730	17	54850	-	2300
44	Aminocyclopyrachlor acid	7400	19850	-	<370	-	>64500	-	-
45	Aminocyclopyrachlor ester	-	6500	-	-	-	-	-	-
46	Aminopyralid	-	7500	-	1360	-	>50000	-	96
47	Amitraz	-	17.5	-	1.1	-	425	-	-
48	Amitraz BTS 27271 (N-(2,4-dimethylphenyl)-N-methylmethanimidamide)	-	1295	-	-	-	-	-	-
49	Amitraz BTS 27919 (N-(2,4-dimethylphenyl) formamide)	-	33100	-	-	-	-	-	-
50	Ancymidol	292	>48200	68.4	-	-	-	-	-
51	Anthraquinone	20.8	>75	-	58	-	-	-	-
52	Antimycin A	-	0.0005	-	-	-	12	-	-
53	Aquashade	-	>48000	-	-	-	-	-	-
54	Arsenic* Acid	-	7500	-	-	9.2	-	-	-
55	Arsenic Trioxide	-	12800	-	-	-	-	-	-
56	Asulam	140	13550	20	10900	-	>50000	-	-
57	Atrazine	<1.00	360	-	5	-	24	-	5
58	Azinphos methyl	-	0.08	-	0.25	-	0.105	-	0.017

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
59	Azoxystrobin	49	130	20	44	-	335	-	-
60	Benfluralin	-	34.85	-	1.9	-	21.5	-	-
61	Bensulfuron-methyl	7.8	-	-	-	-	-	-	-
62	Bensulide	140	290	-	11	-	31.2	-	36
63	Bentazon	4500	13550	900	9830	-	95000	-	-
64	Bentazon, sodium salt (3-isopropyl-1H-2,1,3-benzothiadiazin-4(3H)- one 2,2-dioxide, sodium salt)	4500	31150	-	9830	-	-	-	-
65	Benzobicyclon	1.475	>184	0.7	19.2	-	>155	-	132
66	Benzobicyclon degradate Metabolite B (3-[2-chloro-4-(methylsulfonyl)benzoyl]- bicyclo[3.2.1]octane 2,4-dione)	-	>240.5	-	2.3	-	1835	-	4770
67	Benzovindiflupyr	-	1.75	-	0.95	-	14	-	5.66
68	Benzovindiflupyr degradate M700F001 (3-(difluoromethyl)-1-methyl-1H-pyrazole- 4-carboxylic acid)	-	>44050	-	-	-	-	-	-
69	Benzovindiflupyr degradate SYN546039 (N-[(1R,2R,4S)-9-(dichloromethylene)-2- hydroxy-1,2,3,4-tetrahydro-1,4-methanonaphthalen- 5-yl]-3-(difluoromethyl)-1-methylpyrazole-4- carboxamide)	-	1250	-	-	-	-	-	-
70	Benzyl Benzoate	-	700	-	-	-	-	-	-
71	Benzyl Benzoate degradate Benzoic Acid	-	700	-	-	-	-	-	-
72	Benzyl Benzoate degradate Sodium Benzoate	24800	-	-	-	-	-	-	-
73	Beta-Cyfluthrin	-	0.034	-	0.003	-	-	-	-
74	Beta-Cypermethrin	-	0.195	-	-	-	-	-	-
75	Bicyclopyrone	13	>46650	3.2	10000	-	1700	-	13200
76	Bicyclopyrone degradate CSAA589691 ((1S,3R)-cyclopentane-1,3-dicarboxylic acid)	>90280	-	-	-	-	-	-	-
77	Bicyclopyrone degradate CSCC163768 (6-(trifluoromethyl)pyridine-2,3-dicarboxylic acid)	>100250	-	-	-	-	-	-	-
78	Bifenazate	-	250	-	150	-	25	-	-
79	Bifenazate degradate [1,1'-Biphenyl]-3,4-diol (D9472)	-	100.5	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
80	Bifenazate degradate 2-[4-methoxy(1,1'-biphenyl)-3-yl], 1-methylethyl ester (D3598)	-	22.8	-	-	-	-	-	-
81	Bifenazate degradate 4-methoxybiphenyl (D1989)	-	121	-	-	-	-	-	-
82	Bifenthrin	-	0.0002465	-	0.00005	-	0.00199	-	0.1
83	Bioallethrin	-	4.7	-	-	-	-	-	-
84	Bispyribac-sodium	12	>49600	6.6	9200	-	>60000	-	-
85	Bixafen	15.94	37	<0.743	4.6	-	75.5	-	-
86	Boric Acid	-	66500	9200	10000	-	40050	-	-
87	Boscalid	1340	1350	-	116	-	>1905	-	-
88	Broflanilide	-	125.5	-	5.93	-	0.0108	-	11
89	Bromacil	-	3.4	<1.1	3000	-	56450	-	-
90	Bromethalin	-	2.765	-	-	-	-	-	-
91	Bromoxynil heptanoate	-	14.5	-	-	-	-	-	-
92	Bromoxynil octanoate	-	5.5	-	2.5	-	32.5	-	-
93	Bromoxynil phenol	-	1050	-	-	-	-	-	-
94	Bromuconazole	-	42.5	-	20	-	-	-	-
95	Buprofezin	-	>165	-	8.4	-	>250	-	5.8
96	Butoxypolypropylene Glycol	-	8500	-	4450	-	-	-	-
97	Butylate	-	105	-	300	-	1350	-	-
98	Cacodylate Acid	-	8500	-	-	-	-	-	-
99	Captan	24	32.5	-	16.5	-	1.65	-	-
100	Captan degradate (1,2,3,6-Tetrahydrophthalimide)	-	>56500	181000	-	-	-	-	-
101	Captan degradate (tetrahydrophthalimic acid)	-	>63000	-	-	-	-	-	-
102	Carbaryl	-	0.85	-	0.5	-	2.85	45	210
103	Carbofuran	-	1.115	-	0.75	-	-	-	-
104	Carboxin	370	600	110	-	-	3550	-	45.5
105	Carboxin Sulfoxide	-	>11050	-	11000	-	-	-	-
106	Carfentrazone-ethyl	5.9	800	1.9	118	-	570	-	84
107	Cetylpyridinium Chloride	-	3.68	-	-	-	-	-	-
108	Chlorantraniliprole	-	8.3	-	3.02	-	575	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
109	Chlorantraniliprole degradate IN-ECD73 (2,6-dichloro-4-methyl-1H-pyrido[2,1-b]quinazolin-11-one	-	>6.5	-	-	-	-	-	-
110	Chlorantraniliprole degradate IN-EQW78 (2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-3, 8-dimethyl-4(3H)-quinazolinone	-	>69	-	-	-	-	-	-
111	Chlorantraniliprole degradate IN-F6L99 (5-Bromo-N-methyl-1H-pyrazole-3-carboxamide	-	23400	-	-	-	-	-	-
112	Chlorantraniliprole degradate IN-F9N04 (N-[2-(Aminocarbonyl)-4-chloro-6-methylphenyl]-3-bromo-1-(3-chloro-2-pyridinyl)1H-pyrazole-5-carboxamide	-	15	-	-	-	-	-	-
113	Chlorantraniliprole degradate IN-GAZ70 (2-[3-bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-8-methyl-4(1H)-quinazolinone	-	>4.935	-	-	-	-	-	-
114	Chlorantraniliprole degradate IN-LBA22-002	-	>120	-	-	-	-	-	-
115	Chlorantraniliprole degradate IN-LBA23-000 (2-[3-Bromo-1-(3-hydroxy-2-pyridinyl)-1H-pyrazol-5-yl]-6-chloro-3,8-dimethyl-4(3H)-quinazolinone	-	>0.5	-	-	-	-	-	-
116	Chlorantraniliprole degradate IN-LBA24-002 (2-(5-Bromo-1H-pyrazol-3-yl)-6-chloro-3,8-dimethyl-4(3H)-quinazolinone	-	>5000	-	-	-	-	-	-
117	Chlorfenapyr	-	2.915	-	3.57	-	1.02	-	-
118	Chlorfenapyr Metabolite CL303094	-	280	-	-	-	-	-	-
119	Chlorfenapyr Metabolite CL303195	-	850	-	-	-	-	-	-
120	Chlorfenapyr Metabolite CL303267 (2-(4-Chlorophenyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile)	-	35	-	-	-	-	-	-
121	Chlorfenapyr Metabolite CL312094 (2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl) -1H-pyrrole-3-carbonitrile)	-	>464	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
122	Chlorfenapyr Metabolite CL325195 (2-(4-chlorophenyl)-5-hydroxyl-4-oxo-5-(trifluoromethyl)-3-pyrrole-3-carbonitrile)	-	1050	-	-	-	-	-	-
123	Chlorflurenol methyl ester (CME)	-	810	-	-	-	-	-	-
124	Chlorimuron-ethyl	0.27	-	-	-	-	-	-	-
125	Chlormequat chloride	2600	8450	40	5000	-	25000	-	>9150
126	Chlorophacinone	-	226	-	-	-	-	-	-
127	Chloropicrin	-	5.5	0.31	-	-	50	-	-
128	Chlorothalonil	-	9	-	0.6	-	1.8	-	10.8
129	Chlorothalonil degradate (SDS-3701) (4-hydroxy-2,5,6-trichloro-1,3-dicyanobene)	-	4600	-	-	-	-	-	-
130	Chlorpyrifos	-	0.0069	-	<0.005	-	0.0175	-	<0.28
131	Chlorpyrifos-methyl	-	0.085	-	-	-	-	-	-
132	Chlorsulfuron	0.35	>150000	0.24	20000	-	>490000	-	-
133	Chromated Arsenicals	380	7500	-	2	-	1000	<7	-
134	Citral	-	2300	-	-	-	-	-	-
135	Clethodim	1340	10100	-	2	-	2650	-	2
136	Clodinafop-propargyl	-	120	-	14	-	120	-	14
137	Clodinafop-propargyl Degradate "Clodinafop acid"	-	>4600	-	2600	-	-	-	-
138	Clodinafop-propargyl Degradate (CGA-302371) (5-chloro-3-fluoro-2(1H)-pyridinone)	30600	>47700	-	-	-	-	-	-
139	Clofentezine	-	>17.1	-	6	-	-	-	-
140	Clomazone	167	1450	23.6	350	-	283	-	4890
141	Clopyralid	6900	51500	-	4700	-	-	-	-
142	Cloransulam-methyl	0.99	>16250	0.6	<2070	-	>55500	-	-
143	Cloransulam-methyl degradate 'Cloransulam'	7.4	-	-	-	-	-	-	-
144	Clothianidin	-	11	-	0.05	-	26.5	6350	-
145	Copper*	-	2.05	-	1.11	-	-	-	-
146	Copper 8-quinolinolate (Bis(8-quinolinolato)copper(II))	-	4.45	-	2.99	2.2	-	-	-
147	Coumaphos	-	0.037	-	0.0337	-	1	-	3.6
148	Cryolite	-	2500	-	-	-	>7000	-	-
149	Cyantraniliprole	-	10.2	-	6.56	-	260	-	<750
150	Cyazofamid	-	>70	-	<8.7	-	>83.5	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
151	Cyclanilide	80	>5500	30	2600	-	2500	-	28
152	Cyclanilide degradate "2,4-dichloroaniline"	3200	-	-	-	-	-	-	-
153	Cyclaniliprole	-	40.4	-	9.6	-	11.5	-	-
154	Cyclaniliprole degradate NK-1375 (3-bromo-2((2-bromo-4H-pyrazolo[1,5-d]pyrido[3,2-b][1,4]oxazin-4-ylidene)amino)5-chloro-N-(1-cyclopropylethyl)benzamide	-	>27.15	-	-	-	-	-	-
155	Cyclaniliprole degradate NU-356 (2-(2-bromo-4-oxopyrazolo[1,5a]pyrido[3,2-c]pyrazin-5(4H)-yl)-5-chloro-N-(1-cyclopropylethyl)-3-hydroxybenzamide	-	>12200	-	-	-	-	-	-
156	Cyclaniliprole degradate TJ-537 (8-bromo-2-(3-bromo-1H-pyrazol-5-yl)-6-chloro-3-(1-cyclopropylethyl)quinazolin-4(3H)-one	-	188	-	-	-	-	-	-
157	Cycloate	-	1200	-	31	61	850	38	-
158	Cyflufenamid	>247	520	247	-	-	80	-	-
159	Cyflufenamid degradate 149-F (N-Cyclopropyl methoxy-2,3-difluoro-6-trifluoro-methylbenzamidine)	-	20650	-	-	-	-	-	-
160	Cyflufenamid degradate 149-F1 (2,3-Difluoro-6-trifluoromethyl benzamidine)	-	7200	-	-	-	-	-	-
161	Cyflufenamid degradate 149-F11 ((Z)-N-(α-Cyclopropylmethoxyimino-2,3-difluoro-6-trifluoromethyl benzyl) carbamoylacetic acid)	-	>49800	-	-	-	-	-	-
162	Cyflufenamid degradate 149-F6 (2,3-Difluoro-6-trifluoromethyl benzamide)	-	>51500	-	-	-	-	-	-
163	Cyflumetofen	-	>8.6	-	16.2	-	>3.2	-	11.4
164	Cyflumetofen degradate A-2 (4-tert-Butylphenyl-acetonitrile)	-	3545	-	-	-	-	-	-
165	Cyflumetofen degradate AB-1 ((RS)-2-(4-tert-butylphenyl)-3-oxo-3-[2-(trifluoromethyl)phenyl] propanenitrile)	-	-	-	34200	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
166	Cyflumetofen degradate AB-1 dimer (2,3-bis(4-tert-butylphenyl)-2,3-bis[2-(trifluoromethyl)benzoyl]butanedinitrile)	-	-	-	5.61	-	-	-	-
167	Cyflumetofen degradate AB-11 (Benzenepropanoic acid,a-cyano-a-[4-(1,1-dimethylethyl)phenyl]-b-oxo-2-(trifluoromethyl)-,1-methylethyl ester)	>483	-	-	-	-	-	-	-
168	Cyflumetofen degradate B-1 (2-(trifluoro methyl) benzoic acid)	-	>48950	-	-	-	-	-	-
169	Cyflumetofen degradate B-2	-	>10	-	-	-	-	-	-
170	Cyfluthrin	-	0.0125	-	0.00012	-	0.0011	-	4.05
171	Cyhalofop-butyl	-	>292	-	47.4	-	417	-	-
172	Cyhalofop-butyl degradate Cyhalofop-acid (R-(+)-2-[4-(2-fluoro-4-cyanophenoxy)phenoxy]propanoic acid)	-	>49600	-	-	-	-	-	-
173	Cyhalofop-butyl degradate Cyhalofop-amide (2-[4-(4-aminocarboxyl-2-fluorophenoxy)phenoxy]propanoic acid)	-	>44200	-	-	-	-	-	-
174	Cyhalofop-butyl degradate Cyhalofop-diacid (R-(+)-2-[4-(4-carboxy-2-fluorophenoxy)phenoxy]propanoic acid)	-	>47700	-	98300	-	-	-	-
175	Cyhalofop-butyl degradate FHPBA (3-fluoro-4-(4-hydroxyphenoxy)benzoic acid)	-	>200	-	-	-	-	-	-
176	Cyhalofop-butyl degradate HPPA (R-(+)-2-(4-hydroxyphenoxy)propanoic acid)	-	>200	-	-	-	-	-	-
177	Cyhexatin	-	0.085	-	-	-	-	-	-
178	Cymoxanil	202	14000	-	0.98	-	>22200	-	94.2
179	Cypermethrin	-	0.00028	-	<0.00005	-	0.0027	-	0.125
180	Cyphenothrin	-	0.17	-	-	-	-	-	-
181	Cyprodinil	-	16	-	8.2	-	4.07	-	39.3
182	Cyprodinil degradate "CGA 249287" (4-Cyclopropyl-6-methyl-pyrimidin-2-ylamine)	-	>49000	-	-	-	-	-	-
183	Cyprodinil degradate "CGA 275535" (3-(4-cyclopropyl-6-methylpyrimidin-2-ylamino)phenol)	-	>3530	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
184	Cyromazine	-	>42000	<100	310	-	-	-	-
185	Cyromazine degradate Melamine (2,4,6-Triamino-1,3,5-triazine, sym-Triaminotriazine)	-	30000	-	18000	-	-	-	-
186	Dacthal (DCPA)	>11000	13500	-	-	-	>500	-	-
187	Daminozide	-	35500	-	-	>99800	-	-	-
188	Dazomet degradate (Methyl Isothiocyanate)	-	26.5	-	25	-	-	-	-
189	DCOIT (4,5-dichloro-2-octyl-isothiazolone)	-	0.7	-	0.4	-	2.35	-	2.9
190	DEET (N,N-diethyl-m-toluamide)	-	37500	-	-	-	-	-	-
191	Deltamethrin	-	0.0001	-	0.000026	-	0.00185	-	0.024
192	Denatonium Benzoate	5000	5100	-	2000	-	-	-	-
193	Denatonium Saccharide	5000	5100	-	2000	-	277000	-	-
194	Diazinon	-	0.105	-	0.17	-	2.1	-	0.39
195	Dicamba acid	61	14000	5	>9900	-	>90000	-	11000
196	Dicamba degradate 3, 6-dichlorosalicylic acid (DCSA)	-	-	-	31	-	-	-	-
197	Dicamba, dimethylamine salt	-	488500	-	-	-	-	-	-
198	Dicamba, sodium salt	-	17300	-	-	-	-	-	-
199	Dichlobenil	30	2465	6	<330	-	815	-	-
200	Dichloroprop (2,4-DP)	77	>45750	1.3	100000	-	-	-	-
201	Dichlorvos (DDVP)	-	0.0334	-	0.0058	-	9.55	-	41.7
202	Diclofop-methyl	-	75	-	7.5	-	-	-	-
203	Diclofop-methyl degradate Diclofop Acid	-	10950	-	-	-	-	-	-
204	Dicloran	-	280	-	2.6	-	805	1500	-
205	Dicofol	-	26.5	-	4.4	-	-	-	-
206	Dicrotophos	-	6.3	-	1.7	-	38.5	14300	-
207	Didecyl Dimethyl Ammonium Chloride (DDAC)	-	9	8	10	-	34.5	-	-
208	Difenacoum	-	32	250	-	-	-	-	-
209	Difenoconazole	98	385	-	0.86	-	75	-	0.86
210	Difenoconazole degradate 1,2,4-Triazole	14000	>49050	-	-	-	-	-	-
211	Difenoconazole degradate Triazole Acetic Acid	-	>50500	-	-	-	-	-	-
212	Difenzoquat methyl sulfate	120	1265	43.9	-	-	-	-	-
213	Difethialone	-	2.2	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
214	Di flubenzuron	-	0.0014	-	0.00025	-	-	-	-
215	Dikegulac sodium	9600	>60500	3500	-	-	4391500	-	-
216	Dimethenamid	8.9	>45750	1.2	120	-	1600	-	-
217	Dimethoate	-	21.5	-	0.5	-	15.5	-	1200
218	Dimethomorph	-	3100	-	107	-	2565	-	<63
219	Dinotefuran	-	>49550	-	6360	-	395	-	-
220	Dinotefuran degradate dn phosphate (1-methyl-3-(tetrahydro-3-furylmethyl) guanidinium dihydrogen phosphate	-	>55300	-	-	-	-	-	-
221	Dinotefuran degradate MNG (N-methyl-N'-nitro-guanidine)	>98700	-	-	-	-	-	-	-
222	Dioctyl Sodium Sulfosuccinate	7700	14000	28	261	-	10350	28	-
223	Diphacinone	-	900	-	-	-	-	-	-
224	Dipropyl isocinchomeronate	-	220	-	-	-	-	-	-
225	Diquat Dibromide	0.75	385	-	<36	-	210	-	-
226	Disulfoton	-	1.95	-	0.01	-	260	-	16
227	Disulfoton sulfone	-	17.5	-	0.14	-	-	-	-
228	Disulfoton sulfoxide	-	32	-	1.5	-	-	-	-
229	Dithiopyr	6.11	235	2.67	20	-	79	-	-
230	Diuron	0.13	87.5	-	0.83	-	600	-	730
231	Diuron degradate DCPMU (N'-3,4-dichlorophenyl)-N)-methylurea)	7.1	-	-	-	-	-	-	-
232	Diuron degradate mCPDMU (N'-(3-chlorophenyl)-N,N-dimethylurea)	107	-	-	-	-	-	-	-
233	d-Limonene	-	1265	1731	-	-	-	-	-
234	Dodine	0.08	8.9	0.055	4.4	-	25.2	-	68
235	Endosulfan	-	0.05	-	0.01	-	0.02	-	0.045
236	Endosulfan sulfate	-	1.9	-	-	-	-	-	-
237	Endothall (acid)	-	24500	-	1300	-	-	-	-
238	Endothall (dipotassium salt)	610	4576	-	1300	-	-	-	-
239	Endothall (mono N,N-dimethylalkylamine salt)	7.2	42	-	2.3	-	-	-	-
240	EPTC (S-Ethyl dipropylthiocarbamate)	1400	3250	-	40	-	315	-	50
241	Esbiol	-	3.9	-	-	-	-	-	-
242	Esbiol (s-bioallethrin)	-	4.7	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
243	Esbiothrin	-	4.45	-	-	-	-	-	-
244	Esfenvalerate	-	0.000424	-	0.0000309	-	0.00233	-	0.63
245	Ethaboxam	-	185	-	50	-	185	-	170
246	Ethaboxam degradate "LGC-32523" (4-Ethyl-2-(ethylamino)-1,3-thiazole-5-carboxamide)	-	>55000	-	-	-	-	-	-
247	Ethaboxam degradate "LGC-32533" (4-Ethyl-2-(ethylamino-N-(2-thienylcarbonyl)-1,3-thiazole-5-carboxamide)	-	>15000	-	-	-	-	-	-
248	Ethalfuralin	7.3	16	-	0.4	-	85	-	1.2
249	Ethephon	2500	15850	17	17000	-	30000	-	>50000
250	Ethion	-	0.028	-	-	-	7.5	-	-
251	Ethofumesate	>2760	5760	-	300	-	2600	-	-
252	Ethofumesate degradate CU88901 (2- [2-Hydroxy-5 (methylsulfonyloxy) phenyl]-2-methylpropanoic acid)	-	>7400	-	-	-	-	-	-
253	Ethofumesate degradate ethofumesate acetic acid	-	>5250	-	-	-	-	-	-
254	Ethofumesate degrade NC8493 (2,3-dihydro-2-hydroxy-3, 3-dimethyl-5-benzofuranyl methanesulphonate)	971	>5300	-	-	-	-	-	-
255	Ethoprop	-	22	-	0.8	-	3.15	-	2
256	Ethoxyquin	-	1000	-	-	-	-	-	-
257	Etofenprox	-	0.4	-	0.17	-	0.0094	-	-
258	Etoxazole	-	3.65	-	0.13	-	0.55	-	-
259	Etoxazole degradate 2-amino-2-(4-tert-butyl-2-ethoxyphenyl)ethanol (R-8)	-	>440	-	-	-	-	-	-
260	Etoxazole degradate 2-amino-2-(4-tert-butyl-2-ethoxyphenyl)ethyl-2' ,6'-difluorobenzoate hydrochloride (R-7)	-	>370	-	-	-	-	-	-
261	Etoxazole degradate 4-(4-tert-Butyl-2-ethoxyphenyl)-2-(2,6-difluorophenyl)-oxazole (R-13)	-	>365	-	-	-	-	-	-
262	Etoxazole degradate N-(2,6-Difluorobenzoyl)-2-amino-2-(4-tert-butyl-2-ethoxyphenyl)ethane (R-4)	-	>650	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
263	Etoxazole degradate N-(2,6-Difluorobenzoyl)-4-tert-butyl-2-ethoxybenzamide (R-3)	-	>275	-	-	-	-	-	-
264	Etridiazole	72	385	2	101	-	1250	-	28
265	Etridiazole degradate 3-DCMT (5-ethoxy-3-dichloromethyl-1,2,4-thiadiazole)	-	385	-	-	-	-	-	-
266	ETU (common degradate of Mancozeb, Maneb, and Nabam) (2-Imidazolidinethione)	-	13450	-	540	-	3900	-	-
267	Famoxadone	-	5.9	-	0.085	-	1.88	-	5.58
268	Famoxadone degradate IN-H3310-2 (1-(4-phenoxyphenyl)ethanone)	-	>1350	-	-	-	-	-	-
269	Famoxadone degradate IN-JL856 (α-hydroxy-α-methyl-4-phenoxybenzeneacetic acid-2-phenylhydrazide)	-	>95	-	-	-	-	-	-
270	Famoxadone degradate IN-JS940 (α-hydroxy-α-methyl-4-phenoxybenzeneacetic acid)	-	>4500	-	-	-	-	-	-
271	Famoxadone degradate IN-KF015 (5-methyl-5-(4-phenoxyphenyl)-2,4-oxazolidinedione)	-	2850	-	-	-	-	-	-
272	Famoxadone degradate IN-KZ007 (5-[4-(4-hydroxyphenoxy)phenyl]-5-methyl-3-(phenylamino)-2,4-oxazolidinedione)	-	>55	-	-	-	-	-	-
273	Famoxadone degradate IN-MN467 (5-methyl-3-[(2-nitrophenyl)amino]-5-(4-phenoxyphenyl)-2,4-oxazolidinedione)	-	>70	-	-	-	-	-	-
274	Famoxadone degradate IN-MN468 (5-methyl-3-[(4-nitrophenyl)amino]-5-(4-phenoxyphenyl)-2,4-oxazolidinedione)	-	130.5	-	-	-	-	-	-
275	Famoxadone degradate IN-MN968 (1-carboxy-1-(4-phenoxyphenyl)ethyl 2-phenylhydrazinecarboxylate)	-	>25.5	-	-	-	-	-	-
276	Fenamidone	-	24.5	-	4.7	-	34.5	12	19

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
277	Fenamidone degradate RPA-410193 ((5S)-5-Methyl-5-phenyl-3-(phenylamino)-2,4-imidazolelidinedione) (phenylamino)-2,4-imidazolidinedione	-	>2750	-	-	-	-	-	-
278	Fenamidone degradate RPA-412636 ((S)-Methyl-5-phenylimidazolidine-2,4- dione)	-	>8600	-	-	-	-	-	-
279	Fenamidone degradate RPA-412708 ((5S)-3,5-dihydro-5-methyl-2-(methylthio)-5-phenyl-4H-imidazole-4- one)	>18700	>49000	-	-	-	-	-	-
280	Fenamidone degradate RPA-413255 ((5S)-3,5-5-methyl-2-(methylthio)-3-[(2-nitrophenyl)amino]-5-phenyl-4Himidazole- 4-one)	-	>1000	-	-	-	-	-	-
281	Fenamiphos	-	0.95	-	0.12	-	3.1	-	-
282	Fenarimol	100	450	100	113	-	-	-	-
283	Fenazaquin	-	1.95	-	0.96	-	2.5	-	-
284	Fenazaquin degradate 2-(4-Tert-Butylphenyl) Ethanol	-	6650	-	-	-	-	-	-
285	Fenazaquin degradate Fenazaquin propionic acid	-	376.5	-	-	-	-	-	-
286	Fenbuconazole	-	340	-	27	-	315	-	19.2
287	Fenbutatin- oxide	-	0.85	-	0.31	-	0.185	-	3.8
288	Fenhexamid	-	670	-	101	-	2300	-	-
289	Fenitrothion	-	2.15	-	0.087	-	0.75	-	-
290	Fenoxaprop-ethyl	-	155	100	560	-	55	-	88
291	Fenoxaprop-p-ethyl	-	230	-	44	-	-	-	-
292	Fenoxaprop-p-ethyl degradate (AE F046360) ((+)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate)	-	230	-	44	-	-	-	-
293	Fenoxaprop-p-ethyl Degradate [AE F096918] (2-(4-hydroxyphenoxy)propanoate)	14000	>92800	-	<310	-	-	-	-
294	Fenoxaprop-p-ethyl degradate AE F054014 (Chlorobenzoxazolone)	-	3300	-	-	-	-	-	-
295	Fenoxaprop-p-ethyl degradate AE F088406 (Fenoxaprop-p acid)	-	7100	-	340	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
296	Fenoxaprop-p-ethyl degradate AE F096918 (2-(4-hydroxyphenoxy)propanoate)	14000	>92800	-	<310	-	-	-	-
297	Fenoxaprop-p-ethyl Degradate Chlorobenzoxazolone [AE F054014]	-	3300	-	-	-	-	-	-
298	Fenoxaprop-p-ethyl Degradate Fenoxaprop-p acid (AE F088406)	-	7100	-	340	-	-	-	-
299	Fenoxycarb	-	200	-	0.0016	-	75	-	-
300	Fenpropathrin	-	0.001525	-	<0.0015	-	0.0105	-	0.81
301	Fenpyrazamine	11	2600	4.9	340	-	136.5	-	<39
302	Fenpyrazamine degradate-2-Cyano-N-isopropyl-2-(otolyl)acetamide (MCNI)	-	>25000	-	-	-	-	-	-
303	Fenpyrazamine degradate- 5-Amino-2-isopropyl-4-(o-tolyl)-1H-pyrazol-3-one(S-2188-DC)	-	>44500	-	-	-	-	-	-
304	Fenpyrazamine degradate- 5-Amino-4-hydroxy-2-isopropyl-4-(o-tolyl)pyrazol-3-one(S-2188-OH)	-	>48500	-	-	-	-	-	-
305	Fenpyroximate	-	0.365	-	0.11	-	1.65	-	0.78
306	Fenpyroximate degradate M-3 ((E)-4-[(1,3-dimethyl-5-phenoxy-pyrazol-4-yl)methylene-aminooxy-methyl]-benzoic acid)	-	3100	-	-	-	-	-	-
307	Fenthion	-	2.6	-	0.013	-	0.11	-	7.5
308	Ferbam	-	36.5	-	1.9	-	35	-	1.6
309	Fipronil	-	0.11	-	0.011	-	0.07	-	0.24
310	Fipronil degradate fipronil desulfinyl (MB46513)	-	10	-	0.53	-	0.75	-	0.019
311	Fipronil degradate fipronil sulfide (MB45950)	-	15.4	-	0.83	-	0.038	-	0.03
312	Fipronil degradate fipronil sulfone (MB46136)	-	12.5	-	<0.22	-	0.028	-	0.024
313	Flazasulfuron	0.076	-	-	-	-	-	-	-
314	Flonicamid	-	>49000	-	3000	-	60000	-	-
315	Florasulam	1.18	>50000	0.62	38900	-	50000	-	-
316	Florpyrauxifen-benzyl	0.0162	>20.95	0.00483	37.3	-	20.2	-	-
317	Florpyrauxifen-benzyl degradate Acid X11438848 (4-Amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxy-phenyl)-5-fluoro-pyridine-2-carboxylic acid	0.497	>45900	-	25900	-	-	-	-
318	Florpyrauxifen-benzyl degradate Des-Chloro- XDE-848 BE ester X12131932	-	>490	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
319	Florpyrauxifen-benzyl degradate Des-Chloro-Acid X12393505	-	>45000	-	-	-	-	-	-
320	Florpyrauxifen-benzyl degradate Hydroxy Acid X1196341	-	>50000	-	-	-	-	-	-
321	Florpyrauxifen-benzyl degradate Nitro-Hydroxy Acid X12483137	-	>4800	-	-	-	-	-	-
322	Fluazaindolizine	17000	>29000	-	570	-	>13000	-	5800
323	Fluazaindolizine degradate IN-F4106 (2-Chloro-5-methoxybenzenesulfonamide)	-	>4639.5	1702	11300	-	-	-	-
324	Fluazaindolizine degradate IN-QEK31 (8-Chloro-6-(trifluoromethyl)imidazo[1,2-a]pyridine-2-carboxylic acid)	-	>5103	10120	111000	-	-	-	-
325	Fluazaindolizine degradate IN-REG72 (8-Chloro-N-((2-chloro-5-hydroxyphenyl)sulfonyl)-6-(trifluoromethyl)imidazo[1,2-a]pyridine-2-carboxamide	41400	>50000	30300	-	-	-	-	-
326	Fluazaindolizine degradate IN-VM862 (3-Chloro-5-(trifluoromethyl)pyridin-2-amine)	1800	6700	-	-	-	-	-	-
327	Fluazifop-p-butyl	-	225	-	203	-	3400	-	-
328	Fluazifop-p-butyl degradate 5-(trifluoromethyl)-2(1H)-pyridinone (R154719)	-	120000	100000	-	-	-	-	-
329	Fluazinam	-	18	-	0.69	1.1	2.35	0.49	26
330	Flubendiamide	-	>27.4	-	41.1	-	>14	-	-
331	Fludioxonil	-	235	4.66	14	-	6.4	-	38
332	Fluensulfone	22	6500	-	200	-	-	-	-
333	Fluensulfone degradate Butene Sulfonic Acid	>4400	>61000	-	-	-	-	-	-
334	Fluensulfone degradate Deschloro-Fluensulfone	>4500	-	-	-	-	-	-	-
335	Fluensulfone degradate Methyl Sulfone	2500	17500	-	-	-	-	-	-
336	Fluensulfone degradate Thiazole Sulfonic Acid	4400	>60500	-	-	-	-	-	-
337	Flufenacet	2.45	1130	0.44	75	-	1360	-	49
338	Flufenacet degradate thiadone (5-(Trifluoromethyl)-1,3,4-thiadiazol-2(3H)-one)	-	4200	-	-	-	-	-	-
339	Fluindapyr	-	55	-	31	-	165	-	67
340	Flumetralin	>1.47	11.5	0.185	0.77	-	46.5	-	-
341	Flumetsulam	3.1	127000	0.36	111000	-	>174500	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
342	Flumiclorac-pentyl	>35	>94.5	35	670	-	280	-	-
343	Flumiclorac-pentyl degradate Flumiclorac acid (IMCA)	>35	-	-	670	-	-	-	-
344	Flumioxazin	0.49	1150	0.022	0.51	-	115	-	1.1
345	Flumioxazin degradate- 482-HA (2-[(7-fluoro-3-oxo-4-prop-2-ynyl-1,4-benzoxazin-6-yl) carbamoyl]cyclohexene-1-carboxylic acid)	6.9	>18000	-	-	-	-	-	-
346	Flumioxazin degradate- APF (6-Amino-7-fluoro-4-prop-2-ynyl-1,4-benzoxazin-3-one)	>10800	120000	2790	-	-	-	-	-
347	Flumioxazin degradate- THPA-2Na (Cyclohexene-1,2-dicarboxylic acid)	>9670	120000	9670	-	-	-	-	-
348	Fluometuron	30	110	1.6	38	-	1900	-	1800
349	Fluopicolide	-	174.5	-	151	-	205	<1.4	-
350	Fluopicolide degradate- 3-chloro-5-trifluoromethylpyridine-2-carboxylic acid	-	51000	-	-	-	-	-	-
351	Fluopicolide degradate- BAM (2,6-dichlorobenzamide)	>10000	92050	-	10000	-	-	-	-
352	Fluopyram	-	>890	-	135	-	>255	-	-
353	Fluoxastrobin	-	60	-	45	-	25.8	-	-
354	Fluridone	-	2550	-	480	-	2300	-	-
355	Fluroxypyr	-	7150	-	-	-	25500	-	-
356	Fluroxypyr-MHE ((4-amino-3,5-dichloro-6-fluoro-2-pyridinyl) oxy) acetic acid 1-methylheptyl ester 2-Octanyl [(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetate)	56	>300	-	60.5	-	34	-	-
357	Fluroxypyr-MHE degradate Fluroxypyr Acid	-	7150	-	3000	-	-	-	-
358	Flurprimidol	8.5	5900	0.89	939	-	-	-	-
359	Flutianil	120	>395	-	2.24	-	>9.5	-	70
360	Flutolanil	>800	1250	-	220	-	65	-	-
361	Flutriafol	780	16500	18	310	460	17450	300	-
362	Fluxapyroxad	-	145	15	22	-	480	-	27000
363	Folpet	-	7.5	-	8.8	-	30	-	-
364	Folpet degradate Phthalimide	-	7350	-	1500	-	6050	-	-
365	Fomesafen	92	63000	10	9400	-	12500	-	12200

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
366	Foramsulfuron	0.65	50000	0.36	10500	-	>46800	-	-
367	Forchlorfenuron	>900	2650	900	-	>16	-	16	-
368	Formetanate HCl	-	45	-	0.5	-	1150	-	-
369	Fosamine Ammonium	>21000	188500	<21000	-	>15000	>64000	15000	-
370	Fosetyl-Aluminum	-	41700	-	8000	780	925	320	-
371	Fosthiazate	-	130	-	61	-	214.5	-	-
372	Gamma-cyhalothrin	-	0.00004	-	0.00193	-	-	-	-
373	Glufosinate	72	156000	41	31000	-	3750	-	-
374	Glufosinate ammonium	72	156000	41	31000	-	3750	-	-
375	Glufosinate degradate 2-acetamido-4-methylphosphinico-butanoic acid (NAG)	-	>50450	-	-	-	-	-	-
376	Glufosinate degradate 2-methylphosphinico-acetic acid (MPA)	-	18500	97200	-	-	-	-	-
377	Glufosinate degradate 3-methylphosphinopropionic acid (MPP)	-	21000	-	<6430	-	-	-	-
378	Glufosinate degradate Methylphosphinico-formic acid (MPF)	-	>49100	-	-	-	-	-	-
379	Glyphosate	11900	21500	-	25700	-	20000	-	-
380	Glyphosate degradate aminomethyl phosphoric acid (AMPA)	-	249500	-	-	-	-	-	-
381	Glyphosate isopropylamine salt	-	34700	-	-	-	-	-	-
382	Halauxifen-methyl	0.135	1005	8E-06	22	-	>650	-	2.76
383	Halauxifen-methyl X11406790 degradate (Methyl 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-hydroxyphenyl)pyridine-2-carboxylate)	>100	>12500	100	-	-	-	-	-
384	Halauxifen-methyl X11449757 degradate (4-Amino-3-chloro-6-(4-chloro-2-fluoro-3-hydroxyphenyl)-pyridine-2-carboxylic acid)	>100	>57500	100	8900	-	-	-	-
385	Halauxifen-methyl XDE-729 acid degradate (Methyl-4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)-2-pyridinecarboxylate)	0.58	>53000	0.185	11800	-	-	-	-
386	Halohydantoins	-	200	-	-	-	460	-	-
387	Halohydantoins degradate DMH (5,5-dimethylhydantoin)	-	>486000	-	12700	-	>503	-	-
388	Halosulfuron-methyl	0.042	-	-	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
389	Hexaflumuron	-	0.0555	-	-	-	-	-	-
390	Hexazinone	37.4	63000	26	17000	7	39000	4	-
391	Hexythiazox	-	>60	-	6.1	-	>55	-	-
392	Hydramethylnon (synonym: Pyrimidone)	-	45	-	-	-	27.2	-	-
393	Hydrogen Cyanamide	370	1650	90	100	-	1150	-	-
394	Hydrogen peroxide	-	12000	210	>200000	-	325	-	140
395	Hymexazol	7900	15400	1100	-	-	-	-	-
396	Imazamox	8	>59500	4.5	-	-	>47000	-	-
397	Imazapic acid	6.22	>50000	2.58	96000	>44.1	>48850	44.1	-
398	Imazapyr	24	>50000	10	43100	-	>66000	-	-
399	Imazapyr isopropylamine salt (IPA)	18	-	11	-	-	-	-	-
400	Imazaquin	-	140000	-	-	-	-	-	-
401	Imazethapyr (ammonium salt)	8.1	120000	2.8	97000	-	>54500	-	-
402	Imazethapyr CL266858 (5-Hydroxy-2-(4-isopropyl-4-methyl-5-oxo-4,5-dihydro-1H-imidazol-2-yl)nicotinic acid)	11870	188500	<5970	-	-	-	-	-
403	Imazethapyr CL271197 (5-Ethyl 2,3-pyridinedicarboxylic acid)	>101	>50000	49.8	-	-	-	-	-
404	Imazethapyr CL290084 (5-Ethyl 3-pyridinecarboxylic acid)	37.14	>50000	23.54	-	-	-	-	-
405	Imazosulfuron	1.46	>34500	-	840	-	31500	-	-
406	Imazosulfuron degradate (IPSN) (2-chloroimidazo[1,2-α]pyridin-3-sulfonamide)	>113000	-	-	11000	-	-	-	-
407	Imidacloprid	-	0.385	-	0.01	-	16.5	-	6420
408	Imidacloprid guanidine degradate	-	28000	-	-	-	-	-	-
409	Imidacloprid urea degradate	-	>47400	-	-	-	-	-	-
410	Indoxacarb	>84	145	-	75	-	27.1	-	17
411	Indoxacarb degradate (IN-JT333) (methyl-7-chloro-2,5-dihydro -2- [[[4(trifluoromethoxy)phenyl]amino] carbonyl]indeno[1,2e][1,3,4]oxadiazine- 4a(3H)-carboxylate)	-	12	-	3.6	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
412	Indoxacarb degradate (IN-MP819) (Indenol[1 ,2-e][1 ,3,4]oxadlazine-1 (2H)-carboxylic acid, 7-chloro-3,5-dihydro-2-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester)	-	32	-	8	-	-	-	-
413	Indoxacarb degradate (KN127)	-	197	-	-	-	-	-	-
414	Inpyrfluxam	-	15.5	-	4.9	-	75	-	9
415	Iodomethane	-	285	-	-	-	-	-	-
416	Iodosulfuron-methyl-sodium	0.7	>43450	0.39	9100	-	>50000	-	-
417	Iodosulfuron-methyl-sodium Degradate (Metsulfuron)	0.36	>75000	0.16	4500	-	-	-	-
418	Ipconazole	350	765	-	0.18	-	110	-	1.03
419	Ipflufenquin	-	1195	-	86	1600	1950	-	210
420	Iprodione	-	120	-	260	330	1120	30	57.4
421	Isofetamid	-	1135	-	86	-	220	-	86
422	Isoxaben	10	>500	6	400	-	>430	922	-
423	Isoxaflutole	4.9	>750	1.1	80	-	8.9	2.2	-
424	Isoxaflutole - rpa202248 (degradate) (α-(-(cyclopropylcarbonyl)-2-(methylsulfonyl)-β-oxo-4-(trifluoromethyl)benzenepropanenitrile)	75	>15300	-	-	-	1800	-	-
425	Isoxaflutole - rpa203328 (degradate) (2-methylsulfonyl-4-trifluoromethylbenzoic acid)	6900	>75000	-	8100	-	72500	-	-
426	Kasugamycin	650	>33100	<80	9500	-	>50000	-	-
427	Kresoxim-methyl	30.3	95	12	55	-	7.5	-	521
428	Kresoxim-methyl degradate (BF490-1) ((E)-2-[2-(2-methylphenoxy)methyl]-phenyl-2-(methoxyimido)acetic acid)	-	>50000	-	-	-	-	-	-
429	Lactofen	23	230	-	1.4	0.44	10	0.057	-
430	Lambda-cyhalothrin	-	0.00004	-	0.00022	-	0.0025	-	0.25
431	Lindane* (gamma HCH)	-	0.5	-	2.9	-	0.0385	-	-
432	Linuron	2.5	60	-	0.09	-	>445	-	357
433	L-lactic Acid	-	120000	-	-	-	-	-	-
434	Magnesium Chloride	6800	13500	-	-	-	-	-	-
435	Malathion	-	0.049	-	0.06	-	1.1	-	7.4

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
436	Maleic Hydrazide Acid	-	53750	-	9600	-	>51500	-	-
437	Mancozeb	47	455	-	1.35	-	0.8	-	-
438	Mandipropamid	-	2200	-	76	-	455	-	-
439	Mandipropamid degradate- CGA 380778 (4-chloro-alpha-hydroxy-N-[2-[3-methoxy-4-(2-propynyloxy)phenyl]ethyl]-)	16000	188500	2400	-	-	-	-	-
440	Maneb	13.4	21	5	6.1	-	1.5	-	-
441	MCPA acid (2-methyl-4-chlorophenoxyacetic acid)	170	-	-	-	-	-	-	-
442	MCPA DMAS (diethylamine 2 -methyl)	130	41000	-	11000	-	5300	-	-
443	MCPA EHE (2-ethylhexyl 2-methyl-4-chlorophenoxyacetate)	20	90	-	-	-	65	-	-
444	MCPA sodium salt (4-chloro-o-tolyloxyacetic acid, sodium salt)	-	>34000	-	-	-	2450	-	-
445	MCPB (4-(4-Chloro-2-methylphenoxy)butanoic acid)	200	1960	510	<530	-	28200	-	4950
446	MCPB sodium salt (Sodium 4-(4-chloro-O-tolyloxy)butyrate)	200	1960	-	<530	-	-	-	-
447	Mecoprop-p acid (MCP-p)	10	>46500	-	50000	14	-	-	-
448	Mecoprop-p degradate 2-methyl-4-chlorophenol	-	145	-	-	-	-	-	-
449	Mecoprop-p DMAS (N-Methylmethanamine (2R)-2-(4-chloro-2-methylphenoxy)propanoate)	1300	188500	<400	-	14	-	<9	-
450	Mefenoxam	-	26900	-	1200	-	4850	-	9100
451	Mefentrifluconazole	-	268	-	7.4	-	378	99.2	147
452	Mepiquat Chloride/Mepiquat Pentaborate	>184	25400	-	12500	-	6300	-	-
453	Mesosulfuron-methyl	0.64	>45100	0.19	1700	-	>50000	-	-
454	Mesosulfuron-methyl degradate (F092944) (2-Amino-4,6-dimethoxypyrimidine)	-	48500	-	24000	-	-	-	-
455	Mesosulfuron-methyl degradate (F147447) (6-Methanesulfonamidomethyl- 1,2-benzisothiazol-3(2H)-one 1,1 dioxide)	>90900	-	90900	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
456	Mesosulfuron-methyl degradate (F160459) (Methyl 2-[3-(4-hydroxy-6-methoxypyrimidine-2-yl)ureidosulfonyl]-4-methanesulfonamido-methyl benzoate)	1500	-	290	-	-	-	-	-
457	Mesosulfuron-methyl degradate (F160460) (2-[3-(4-hydroxy-6-methoxypyrimidin-2-yl)ureidosulfonyl]-4-methanesulfonamidomethyl-benzoic acid)	>94710	-	94710	-	-	-	-	-
458	Mesotrione	4.8	>60000	-	3055	-	1650	-	-
459	Mesotrione degradate 2-amino-4-methylsulfonylbenzoic acid (AMBA)	8900	75000	-	-	-	-	-	-
460	Mesotrione degradate 2-nitro-4-methylsulfonylbenzoic acid (MNBA)	-	>60000	-	-	-	-	-	-
461	Metalaxyl	-	14000	-	1200	-	8800	-	9100
462	Metaldehyde	22100	34500	11800	37500	-	6450	-	-
463	Metam sodium and Metam potassium degradate- Methyl isothiocyanate (MITC)	-	18.05	-	25	-	-	-	-
464	Metconazole	22	1650	-	2.9	-	390	-	11
465	Methamidophos	-	13	-	4.5	-	527	50000	-
466	Methanearsonic Acid, disodium salt DSMA	1500	>56000	20500	-	-	-	-	-
467	Methanearsonic Acid, sodium salt MSMA	2800	6650	29000	-	-	40	-	-
468	Methidathion	-	1.1	-	0.66	-	-	-	-
469	Methiocarb	-	2.75	-	50	-	-	-	-
470	Methiozolin	7	650	<0.96	117	-	185	-	74
471	Methomyl	-	4.4	-	0.6	-	24.5	-	-
472	Methoprene	-	165	-	48	-	-	-	-
473	Methoxychlor	-	0.7	-	-	-	1.8	-	-
474	Methoxyfenozone	-	28.5	-	3.1	-	600	-	1500
475	Methyl Bromide*	-	1300	-	-	-	-	-	-
476	Methyl bromide degradate- bromide ion (Br-)	2500000	2900000	-	7800	-	-	-	-
477	Methyl paraoxon	-	1.15	-	0.25	-	-	-	1
478	Methyl parathion	-	0.485	-	0.25	-	-	-	-
479	Metofluthrin	-	0.6	-	0.71	-	-	-	-
480	Metolachlor	8	1600	1.5	30	-	800	-	130
481	Metolachlor ethane sulfonic acid	-	24000	4000	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
482	Metolachlor oxanilic acid	-	7700	29300	-	-	-	-	-
483	Metrafenone	-	>255	>179	204	-	170	-	22
484	Metrafenone degradate- CL 375816 (2-methyl-3-bromo-6-methoxy-benzoic acid)	-	49500	101900	-	-	-	-	-
485	Metrafenone degradate- CL 4084564 ((3-hydroxy-6-methoxy-2-methylphenyl) (2, 3, 4-trimethoxy-6-methylphenyl) methanone)	-	7900	9900	-	-	-	-	-
486	Metribuzin	8.1	2100	2.3	1290	-	20350	-	-
487	Metsulfuron-methyl	0.36	>75000	0.16	4500	-	-	-	-
488	MGK-264 (N-octyl bicycloheptene dicarboximide and 2-ethylhexyl bicycloheptene dicarboximide)	-	4	-	8	-	193.5	-	-
489	MIT/CMIT (2-Methyl-4-isothiazolin-3-one)	23	35	-	20	-	14	-	-
490	Molinate	-	105	170	340	-	380	-	25.6
491	Momfluorothrin	-	0.6	-	3.1	-	-	-	-
492	Monosodium Methane arsonate (MSMA)	5630	38500	-	10000	-	80000	-	-
493	Myclobutanil	-	1200	-	220	-	120	-	85.6
494	Myclobutanil degradate - 1,2,4-triazole	6300	>49050	3100	3200	-	-	-	-
495	Myclobutanil degradate - 1,2,4-triazole acetic acid	-	>50500	-	-	-	-	-	-
496	Nabam	-	850	-	-	-	10	-	-
497	Nabam degradate EU (ethylene urea)	-	>61000	-	-	-	-	-	-
498	Naled	-	0.0575	-	0.01	-	3.3	-	0.84
499	Napropamide	350	6000	-	1100	-	700	-	190
500	Nicarbazin degradate HDP (4,6-Dimethyl-2-hydroxypyrimidine)	350	>53500	70.7	-	-	700	-	190
501	Nicarbazin DNC (1,3-Bis(4-nitrophenyl)urea)	-	>34.5	-	-	-	-	-	-
502	Niclosamide	-	15	-	56	-	-	-	-
503	Nicosulfuron	-	>500000	-	43000	-	-	-	-
504	Nithiazine	-	16925	-	-	-	-	-	-
505	Nitrapyrin	-	1100	-	103	-	165	-	<160
506	Norflurazon	6.03	4050	5.33	770	-	1900	-	475
507	Novaluron	-	0.075	-	0.03	-	0.065	-	0.026
508	Novaluron degradate Chloroaniline	-	245	-	64	-	-	-	-
509	Novaluron degradate Chlorphenyl urea	-	265	-	170	-	145	-	18
510	Octhilinine; 2-n- Octyl-4-isothiazoline-3-one (OIT)	0.61	23.5	<0.143	32	-	>28.5	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
511	Orthosulfamuron	0.7	>48650	0.26	6100	80	>48500	21	27000
512	Oryzalin	13	750	-	220	-	142.5	-	99.4
513	Oxadiazon	41	600	-	0.88	5.2	135	-	1.1
514	Oxamyl	-	90	4.6	27	-	50	-	7
515	Oxathiapiprolin	>140	>280	140	460	-	>165	-	58
516	Oxathiapiprolin degradate IN-E8S72 (5-(Trifluoromethyl)-1H-pyrazole-3-carboxylic acid)	-	>50000	102000	-	-	-	-	-
517	Oxathiapiprolin degradate IN-P3X26 (2-[1-[2-[5-Methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-thiazolecarboxylic acid)	-	>33850	66400	-	-	-	-	-
518	Oxathiapiprolin degradate IN-Q7D41 (1-[4-[4-[5-(2,6-Difluorophenyl)-3-isoxazolyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	>75	210	-	-	-	-	-
519	Oxathiapiprolin degradate IN-QFD61 (1-[4-(4-Acetyl-2-thiazolyl)-1-piperindyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	2570	720	-	-	-	-	-
520	Oxathiapiprolin degradate IN-QPS10 (4-[4-[5-(2,6-Difluorophenyl)-4,5-dihydro-3-isoxazolyl]-2-thiazolyl]piperidine)	810	3270	480	-	-	-	-	-
521	Oxathiapiprolin degradate IN-RAB06 (1-[2-[4-[4-[5-(2,6-Difluorophenyl)-4,5-dihydro-3-isoxazolyl]-2-thiazolyl]-1-piperidinyl]-2-oxoethyl]-3-(trifluoromethyl)-1H-pyrazole-5-carboxylic acid)	-	>24850	96900	-	-	-	-	-
522	Oxathiapiprolin degradate IN-RDT31 (1-[4-[4-[5-(2,6-Difluorophenyl)-4,5-dihydro-3-isoxazolyl]-2-thiazolyl]-4-hydroxy-1-piperidinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	>5250	1070	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
523	Oxathiapiprolin degradate IN-RSE01 (3-(2,6-Difluorophenyl)-3-hydroxy-1-[2-[1-[2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidiny]-4-thiazolyl]-1-propanone)	-	>4920	-	-	-	-	-	-
524	Oxathiapiprolin degradate IN-RYJ52 (1-[4-[4-[(1S,3S)-3-(2,6-Difluorophenyl)-1,3-dihydroxypropyl]-2-thiazolyl]-1-piperindyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	>6900	50	-	-	-	-	-
525	Oxathiapiprolin degradate IN-S2K66 (1-[4-[4-[3-(2,6-Difluorophenyl)-1-hydroxypropyl]-2-thiazolyl]-1-piperidiny]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	210	4270	-	-	-	-	-
526	Oxathiapiprolin degradate IN-S2K67 (1-[4-[4-(1-Hydroxyethyl)-2-thiazolyl]-1-piperindyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]ethanone)	-	29600	280	-	-	-	-	-
527	Oxycarboxin	370	9950	110	-	-	3550	-	-
528	Oxydemeton-Methyl	-	95	-	5	-	600	-	-
529	Oxyfluorfen	0.33	100	-	1.3	1.1	5.5	-	4.09
530	Oxypyrimidine (diazinon degradate)	-	>50500	-	-	-	-	-	-
531	Oxytetracycline	125	>28200	28.8	8850	-	>42750	1200	-
532	Oxytetracycline (hydrochloride salt)	-	>47450	-	-	-	-	-	-
533	Paclobutrazol	8	120	<0.75	9	-	120	-	4
534	Paraquat dichloride	0.396	650	0.16	97	-	114	-	38
535	Pebulate	230	3150	-	-	-	-	-	-
536	Pelargonic acid	6020	8500	450	-	-	-	-	-
537	Pendimethalin	12.5	69	5.6	6.3	5.2	105	0.7	10
538	Penflufen	-	45	-	18.1	-	575	-	-
539	Penoxsulam	3	>49150	1	2950	-	64.5	-	8100
540	Pentachloroaniline (PCA)	-	28	-	-	-	-	-	-
541	Pentachlorobenzene (PCB)	-	70	-	-	-	-	-	-
542	Pentachloronitrobenzene (PCNB)	-	50	-	13	-	-	-	-
543	Pentachlorophenol (PCP)*	-	7.5	-	6.9	27	-	-	-
544	Penthiopyrad	51	145	35.6	100	-	600	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
545	Permethrin	-	0.0033	-	0.0042	-	0.009	-	0.0024
546	Pethoxamid	1.7	1200	1.2	722	-	1690	-	720
547	Phenmedipham	149	850	-	5.06	-	110	-	0.59
548	Phorate	-	0.3	-	0.21	-	0.055	-	0.0017
549	Phorate Degradate Phorate Sulfone	-	0.2	-	-	-	-	-	-
550	Phorate Degradate Phorate Sulfoxide	-	2	-	-	-	-	-	-
551	Phosmet	-	4.32	-	0.75	-	0.8	-	0.02
552	Phosmet degradate phosmet oxon	-	0.585	-	-	-	-	-	-
553	Picarbutrazox	-	>140	-	76	-	>130	-	<17.6
554	Picaridin	-	>51500	-	-	-	-	-	-
555	Picloram acid	-	2750	-	550	-	-	-	-
556	Picloram Potassium Salt	-	2750	-	550	-	<54000	-	-
557	Picloram TIPA Salt	2610	2750	130	550	950	15800	-	3160
558	Picoxystrobin	-	12	-	1	-	2.85	2.3	3.6
559	Pinoxaden	35	3000	3.7	>960	-	160	-	-
560	Pinoxaden (NOA 407854) (8-(2,6-Diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7,9(8H)-dione)	4300	>50500	500	>960	-	-	-	-
561	Pinoxaden (NOA 447204) (8-(2,6-diethyl-4-methyl-phehyl)-8-hydroxy-tetrahydropyrazolo[1,2-d][1,4,5]oxadiazepine-7,9-dione)	-	>60000	14000	-	-	-	-	-
562	Piperalin	-	385	-	-	-	-	-	-
563	Piperonyl Butoxide	-	21.1	-	7.8	-	245	-	2.1
564	Pirimicarb	-	9.5	-	-	-	-	-	-
565	Pirimiphos-methyl	-	0.055	-	-	-	-	-	-
566	Polixetonium Chloride	-	23.5	-	15	-	105	-	-
567	Polymeric Betaine	-	195	-	-	-	-	-	-
568	Prallethrin	>1.324	3.1	-	0.65	-	13	-	-
569	Primisulfuron-methyl	0.8	10500	-	410	-	8000	-	-
570	Prodiamine	-	>6.5	-	1.5	-	6.5	-	-
571	Profenofos	-	0.465	-	0.2	-	1.2	-	0.22
572	Prohexadione Calcium	>1100	>47300	>120	12500	-	>58500	1100	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
573	Prometon	98	9800	32	3450	-	8850	-	2370
574	Prometryn	1.04	1455	0.288	620	-	1160	-	-
575	Propachlor	13.5	85	-	-	-	-	-	-
576	Propamocarb HCl	-	>49500	-	6300	-	19600	-	-
577	Propanil	16	265	-	2.4	-	200	-	5.1
578	Propanil degradate - 3,4-Dichloroaniline (3,4-DCA)	-	19.5	-	10	-	-	-	-
579	Propargite	-	7	-	9	-	27.5	-	0.46
580	Propazine	24.8	2500	6.5	47	-	1935	-	266
581	Propetamphos	-	1.65	-	-	-	-	-	-
582	Propiconazole	-	425	-	15	21	255	-	40
583	Propionic Acid	-	11350	-	-	-	-	-	-
584	Propoxur	-	5.5	-	-	-	20.5	-	-
585	Propylene Glycol Monolaurate	-	260	440	-	-	-	-	-
586	Propylene Oxide	>860	42000	860	-	-	44500	-	-
587	Propyzamide	760	>2800	-	224	-	1750	-	380
588	Prosulfuron	1.22	>60000	-	140000	-	>75000	-	-
589	Prothioconazole	39	600	6.4	113	5.3	33	1.5	70
590	Prothioconazole Degradate Prothioconazole-desthio	35	-	5.8	103	4.8	30	1.3	64
591	Prothioconazole Degradate Prothioconazole-S-methyl	-	890	-	-	-	>260	-	-
592	Pymetrozine	17000	43500	-	25	-	1525	-	-
593	Pyraclonil	3.5	600	0.96	12	-	250	-	190
594	Pyraclostrobin	1.5	3.1	1.18	2.35	-	2.08	-	10.8
595	Pyraclostrobin degradate BF 500-11	-	>49550	-	-	-	-	-	-
596	Pyraclostrobin degradate BF 500-13	-	37500	-	-	-	-	-	-
597	Pyraclostrobin degradate BF 500-14	-	28500	-	-	-	-	-	-
598	Pyraflufen-ethyl	1.5	>41	0.05	0.89	-	>21.5	-	-
599	Pyraflufen-ethyl degradate E-1 (2-[2-chloro-5-[4-chloro-5-(difluoromethoxy)-1-methylpyrazol-3-yl]-4-fluorophenoxy]acetic acid)	-	45000	-	10000	-	4700	-	-
600	Pyrasulfotole	28	>47900	-	580	-	550	-	-
601	Pyrethrins	-	0.38	-	0.04	-	0.7	-	0.25

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
602	Pyridaben	-	0.265	-	0.044	-	0.335	-	0.13
603	Pyridalyl	-	2.1	-	1.4	-	0.5	-	0.45
604	Pyridate	-	10.5	8.43	28	-	330	-	-
605	Pyrifluquinazon	-	1.4	-	2.6	-	1045	-	2
606	Pyrifluquinazon degradate "IV-15" (1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2,4-dione)	-	95	-	-	-	-	-	-
607	Pyrifluquinazon degradate "IV-27" (1,2,3,4-tetrahydro-4-hydroxy-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one)	-	965	-	-	-	-	-	-
608	Pyrifluquinazon degradate "IV-28" (4-hydroxy-3-[(pyridine-3-ylmethylene)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3,4-dihydro-1H-quinazolin-2-one)	-	47	-	-	-	-	-	-
609	Pyrifluquinazon degradate IV-01 (1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2-one)	-	0.7	-	-	-	-	-	-
610	Pyrifluquinazon degradate IV-02 (1,2,3,4-tetrahydro-3-[(3-pyridylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethylene)ethyl]quinazolin-2-one)	-	0.55	-	-	-	-	-	-
611	Pyrifluquinazon degradate IV-203 (1,2,3,4-tetrahydro-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]quinazolin-2,4-dione)	-	>395	-	-	-	-	-	-
612	Primethanil	-	1500	-	20	-	1400	-	250
613	Primethanil Degradate 2-amino-4,6-dimethylpyrimidine	-	>48500	-	-	-	-	-	-
614	Pyriofenone	-	>575	56	89.2	-	396	-	<32
615	Pyriproxyfen	>0.18	>165	-	0.015	-	32.5	-	0.81
616	Pyroxasulfone	0.38	>1100	-	>1900	-	700	-	-
617	Pyroxsulam	2.57	>43500	0.68	10100	-	-	-	-
618	Quinclorac	>500	15150	500	16000	-	34700	500	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
619	Quinoxifen	30	41.5	-	13	-	36	-	1.2
620	Quinoxifen degradate "2-Oxo-quinoxifen"	-	>250	-	-	-	-	-	-
621	Quinoxifen degradate "DCHQ" (5,7-Dichloroquinolin-4-ol)	-	>250	-	-	-	-	-	-
622	Quizalofop ethyl	>82.8	230	-	11	-	75	-	-
623	Quizalofop-p-ethyl	34.5	175	-	10	-	0.075	-	0.083
624	Resmethrin	-	0.14	-	0.32	-	0.115	-	1.9
625	Rimsulfuron	11.6	>195000	-	-	-	>55	-	-
626	Rotenone	-	0.97	-	1.01	-	6	-	-
627	Saflufenacil	42	6800	10	997	-	>3040	-	-
628	Sethoxydim	210	39050	93	4860	>250	>54500	250	15100
629	Siduron	21	4050	-	6	-	>3250	-	4.6
630	Simazine	6	500	-	40	-	497.5	-	63
631	S-Metolachlor	8	1600	-	30	-	800	-	130
632	Sodium Acifluorfen	-	8500	-	<3400	-	1900	-	-
633	Sodium Arsenite	-	2445	-	370	-	-	-	-
634	Sodium Chlorate	810	460000	-	500000	-	>500000	-	-
635	Sodium cyanide	-	94	-	-	-	-	-	-
636	Sodium fluoroacetate	-	27000	-	-	-	-	-	-
637	Sodium percarbonate	-	6000	-	6900	-	-	-	-
638	Sodium Pyrithione	-	11	-	-	-	-	-	-
639	Sodium Tetrathiocarbonate	-	3300	9980	-	-	-	-	-
640	Sodium tetrathiocarbonate degradate carbon disulfide	-	430	-	-	-	-	-	-
641	Spinosad	90	2970	-	0.6	-	150	-	84.2
642	Spirodiclofen	-	>17.5	-	1.95	-	>17.6	-	-
643	Spirodiclofen degradate - BAJ 2740-enol (3-(2,4-Dichlorophenyl)-4-hydroxy-1-oxaspiro[4.5]dec-3-en-2-one)	-	>36500	-	115	-	-	-	190
644	Spiromesifen	-	8.4	-	0.25	-	>23.15	-	10.6
645	Spiromesifen Degradate Spiromesifen-enol	-	>50500	-	186	-	>13	-	-
646	Spirotetramat	-	330	-	100	360	425	124	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
647	Spirotetramat enol degradate (cis-3-(2,5-Dimethylphenyl)-4-hydroxy-8-methoxy-1-azaspiro[4.5]dec-3-en-2-one)	5400	37450	950	-	-	-	-	-
648	Spirotetramat keto hydroxy degradate (cis-3-(2,5-Dimethylphenyl)-3-hydroxy-8-methoxy-1-azaspiro[4.5]decan-2,4-dione)	-	>50000	-	-	-	-	-	-
649	Streptomycin Sulfate	7	21000	1000	12200	-	-	-	-
650	Strychnine	-	380	-	-	-	-	-	-
651	Sulfentrazone	28.8	30200	16	200	-	500	-	-
652	Sulfometuron-methyl	0.45	>74000	0.207	97000	-	>19100	-	-
653	Sulfosulfuron	1	>46800	0.49	100000	-	>50500	-	5730
654	Sulfoxaflor	81200	>100000	-	660	-	320	-	110
655	Sulfoxaflor degradate- N-(methyl(oxido) {1-[6-(trifluoromethyl) pyridin-3-yl]ethyl}-λ4-sulfanylidene) urea	-	>102500	-	-	-	-	-	-
656	Sumithrin (synonym: d-phenothrin)	-	2.2	-	0.47	-	0.0125	-	0.0026
657	Tau-Fluvalinate	-	0.175	-	0.064	-	0.003	-	0.036
658	TCMTB (2-(Thiocyanomethylthio)benzothiazole)	-	4.35	-	0.15	2.7	10.15	-	1.02
659	TCMTB (2-(Thiocyanomethylthio)benzothiazole) degradate 2-MBT	-	365	-	310	-	810	-	-
660	Tebuconazole	151	1135	-	11	170	245	-	19
661	Tebufenozide	>740	1500	-	29	-	252.5	-	<22
662	Tebupirimphos	-	0.039	-	0.011	-	3.315	-	0.118
663	Tebuthiuron	50	53000	13	9300	-	31150	-	4560
664	Tefluthrin	-	0.03	-	0.004	-	0.0265	-	-
665	Telone	-	45	-	2.3	-	320	-	1.8
666	Telone (1,3-D) Degradate 3-chloroacrylic acid	220	27500	23	2530	-	-	-	-
667	Telone (1,3-D) Degradate 3-chloroallyl alcohol	-	493	42	-	248	-	71	-
668	Tembotrione	5.2	24450	-	6.41	-	50	-	6
669	Temephos	-	5	-	-	-	2.65	-	-
670	Terbacil	11	23100	7.1	50	-	>2075	-	43
671	Terbufos	-	0.085	-	0.03	-	0.11	-	0.041
672	Terbuthylazine	-	1800	-	-	-	46	-	-
673	Tetrachlorvinphos	-	0.95	-	0.125	-	140	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
674	Tetraconazole	310	1315	-	80	-	220	-	87
675	Tetramethrin	-	1.85	-	-	-	-	-	-
676	Tetraniliprole	-	71.5	-	12.5	-	870	-	580
677	Tetraniliprole degradate BCS-CL73507-amide (BCS-CR60014)	-	>4950	7950	-	-	-	-	-
678	Tetraniliprole degradate BCS-CL73507-deschloro-pyrazine (BCS-CY28897)	-	>4870	-	-	-	-	-	-
679	Tetraniliprole degradate BCS-CL73507-desmethyl-amide-carboxylic-acid (BCS-CU81055)	-	>5300	7951	-	-	-	-	-
680	Tetraniliprole degradate BCS-CL73507--N-methyl-quinazolinone-amide (BCS-CT30672)	-	>1120	-	-	-	-	-	-
681	Tetraniliprole degradate BCS-CL73507-N-methyl-quinazolinone-carboxylic acid (BCS-CT30673)	-	>4520	1030	-	-	-	-	-
682	Tetraniliprole degradate BCS-CL73507-pyrazole-5-carboxylic acid (BCS-CY28906)	-	>1310	-	-	-	-	-	-
683	Tetraniliprole degradate BCS-CL75307-deschloro-oxazine (BCS-CY28900)	-	>550	-	-	-	-	-	-
684	Tetraniliprole degradate BCS-CQ63359 (Tetraniliprole quinazolinone)	-	426	-	-	-	-	-	-
685	Tetraniliprole degrade BCS-CL73507-carboxylic acid (BCS-CR74541)	-	>4500	<583	-	-	-	-	-
686	Thiabendazole	-	155	-	42	-	170	-	46
687	Thiacloprid	-	18.9	-	0.97	-	15.65	-	1.1
688	Thiacloprid amide	-	15600	-	100	-	-	-	-
689	Thiacloprid sulfonic acid	-	>47550	100000	-	-	-	-	-
690	Thiamethoxam	-	17.5	-	0.74	-	3450	-	1100
691	Thiencarbazone-methyl	0.8	>49300	0.21	3540	-	>47000	-	<5900
692	Thifensulfuron-methyl	1.59	>50000	1.59	-	-	-	-	-
693	Thiobencarb	17	50	-	1	-	75	-	3.2
694	Thiodicarb	-	3.395	-	0.7	-	117	-	29.1
695	Thiophanate methyl	930	2700	430	-	-	550	110	-
696	Thiophanate methyl degradate Carbendazim (HOE 017411)	-	3.7	-	0.99	-	49	-	24.8
697	Thiram	-	21	-	1.1	-	5.5	-	0.93
698	Tiafenacil	5	>37750	1	16	-	325	-	86

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
699	Tioxazafen	-	45.5	-	5.9	-	42	-	42
700	Tioxazafen degradate 3-Theinyl 102100 (MON 102130)	-	18.5	123	-	-	-	-	44
701	Tolclofos-methyl	-	345	-	<12	-	105	-	3.9
702	Tolclofos-methyl degradate- O-methyl O-(2,6-dichloro-4-methylphenyl)hydrogen phosphorothioate(DM-TM)	-	>47500	12000	>95000	-	-	-	2100
703	Tolfenpyrad	-	0.0815	-	0.188	-	1.69	-	0.186
704	Tolfenpyrad degradate PAM (4-Chloro-3-ethyl-1-methyl-1H-pyrazole-5-carboxamide)	-	>5000	-	-	-	1690	-	186
705	Tolfenpyrad degradate PCA (4-chloro-3-ethyl-1-methylpyrazole-5-carboxylic acid)	-	>4850	-	-	-	-	-	-
706	Tolfenpyrad degradate PC-TA	-	470	-	-	-	-	-	-
707	Tolfenpyrad degradate PT(A)-4OH (4-chloro-3-ethyl-N-(4-hydroxybenzyl-1-methylpyrazole-5carboxamide)	-	1550	-	-	-	-	-	-
708	Tolfenpyrad degradate PT-CA (4-[4-[4-chloro-3-ethyl-1-methylpyrazol-5-yl)carbonylaminomethyl]phenoxy]benzoic acid)	-	320	-	-	-	-	-	-
709	Tolpyralate	6.67	>9500	0.99	303	232	336	191	-
710	Tolpyralate degradate MMTA (3-(2-methoxyethoxy)-2-methyl-4-(methylsulfonyl)benzoic acid)	37100	>50500	3060	-	-	-	-	-
711	Tolpyralate degradate MT-2153 (1-ethyl-4-[4-methanesulfonyl-3-(2-methoxyethoxy)-2-methylbenzoyl]-1H-pyrazol-5-ol)	2.14	>52000	<0.481	-	-	-	-	-
712	Topramezone	28.6	>14190	1	<248	-	900	-	36
713	Topramezone primary degradate (M670H05) (3-(4,5-Dihydro-isoxazol-3-yl)-4-methanesulfonyl-2-methyl-benzoic acid)	360	>50000	6.7	-	-	-	-	-
714	Tralkoxydim	2600	>3750	580	2100	-	-	-	-
715	Tralomethrin	-	0.0195	-	0.0044	-	0.4225	-	0.00051

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
716	Transfluthrin	-	0.355	-	0.0357	-	-	-	-
717	Triadimefon	-	800	-	41	-	1950	-	<26
718	Triadimefon degradate triadimenol	-	1250	320	1340	-	-	-	-
719	Triallate	21	45.5	-	14	-	105	-	2.3
720	Triasulfuron	190	>50000	<0.1	68600	-	10750	-	<13000
721	Triazine DACT degradate (2,3-diamino-6-chloro-s-triazine)	-	>50000	-	-	-	-	-	-
722	Triazine DEA degradate (des-ethyl atrazine)	1000	-	-	-	-	-	-	-
723	Triazine DIA degradate (des-isopropyl atrazine)	2500	8500	-	-	-	-	-	-
724	Triazine HA degradate (atrazine-2-hydroxy)	-	>1500	-	-	-	>950	-	-
725	Tribenuron-methyl	2	>50000	750	11800	-	66000	-	1510
726	Tribufos	-	2.7	-	1.56	-	5.765	-	0.26
727	Trichlorfon	-	0.0389	-	0.0057	-	9.55	-	1.48
728	Triclopyr Acid	32500	58500	<160	-	-	-	-	-
729	Triclopyr Butoxyethyl Ester (BEE)	100	175	2	26	-	1.24	-	10.9
730	Triclopyr degradate TCP (3,5,6-Trichloro-2-pyridinol)	2000	5200	-	58	-	4650	-	-
731	Triclopyr Triethylamine salt (TEA)	4200	86000	1400	57700	-	20750	-	-
732	Trifloxystrobin	-	7.15	-	2.76	-	4.31	-	-
733	Trifloxystrobin degradate CGA-321113	-	>47650	-	3200	-	-	-	-
734	Trifloxysulfuron-Sodium (CGA-362622) (Trifloxysulfuron-sodium [ISO] monohydrate)	0.24	>51500	0.01024	549	-	30050	-	9160
735	Trifloxysulfuron-Sodium degradate- CGA 382997	-	>48350	-	-	-	-	-	-
736	Trifloxysulfuron-Sodium degradate- CGA-368732	23000	>52000	6800	-	-	-	-	-
737	Trifludimoxazin	0.115	>294	0.0143	10.07	-	185.5	-	2.7
738	Trifludimoxazin Degradate M850H001 (1,3-dimethyl-5-[2,2,7-trifluoro-3-oxo-4-(prop-2-yn-1-yl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]-1,3,5-triazinane-2,4,6-trione)	3.78	>4775	0.813	-	-	-	-	-
739	Trifludimoxazin Degradate M850H002 (1,5-dimethyl-6-thioxo-3-(2,2,7-trifluoro-3-oxo-3,4-dihydro-2H-1,4-benzoxazin-6-yl)-1,3,5-triazinane-2,4-dione)	2.69	>2940	<0.5	-	-	-	-	-

Pesticide		Freshwater Benchmarks (µg / L)				Estuarine/Marine Benchmarks (µg / L)			
		Acute		Chronic		Acute		Chronic	
		Plant	Animal	Plant	Animal	Plant	Animal	Plant	Animal
740	Trifludimoxazin Degradate M850H004 (N,N-dimethyl-N'-[2,2,7-trifluoro-3-oxo-4-(prop-2-yn-1-yl)-3,4-dihydro-2H-1,4-benzoxazin-6-yl]dicarbonimidothioic-diamide)	8.31	>1096.5	0.5	-	-	-	-	-
741	Triflumizole	140	290	<0.032	33	-	300	-	87
742	Trifluralin	-	9.25	-	1.9	21.9	319.25	-	<1.3
743	Trinexapac-ethyl	190	17500	18	410	-	3250	-	410
744	Triphenyltin Hydroxide (TPTH)	-	3.55	-	0.065	-	2.15	-	<0.28
745	Triptolide	-	180	-	-	-	-	-	-
746	Triticonazole	-	>1150	-	12	350	1750	-	25
747	Undecylenic Acid	39	6500	-	2000	-	4300	-	432
748	Urea sulfate	11500	40000	-	-	-	-	-	-
749	Valifenalate	>5050	>18450	-	<500	-	1400	106	-
750	Valifenalate degradate "p-chlorobenzoic acid"	-	>55500	84000	-	-	1400	-	1900
751	Valifenalate degradate "Valifenalate acid"	-	>48050	-	-	-	-	-	-
752	Vinclozolin	>900	1420	-	60	-	-	-	-
753	Warfarin	-	>8000	-	-	-	-	-	-
754	Zeta-cypermetherin	-	0.0018	-	0.00059	-	0.00238	-	0.00078
755	Zinc Pyrithione	-	1.3	-	1.2	0.65	2.35	-	2.2
756	Ziram	-	24	-	1.4	-	7	-	1.2
757	Zoxamide	10	78	-	3.48	-	38	-	7.2

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