

Appendix H: Accepted ECOTOX Data Table

The code list for ECOTOX can be found at: <http://cfpub.epa.gov/ecotox/blackbox/help/codelist.pdf>

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Myriophyllum	aquaticum	Parrot feather watermilfoil	BCM	BCM	CHLA	NOAEL		14 d		0.266		mg/L	40	105140
Pendimethalin	Protosiphon	botryoides	Siphonous green algae	BCM	BCM	PRCO	LOAEL		16 d		0.2375		mg/L	95	62243
Pendimethalin	Mus	musculus	House mouse	CEL	CEL	PCCM	NOAEL		2 d		1267.2		mg/kg bdwt	99	100768
Pendimethalin	Mus	musculus	House mouse	CEL	CEL	PCCM	NOAEL		2 d		2870.01		mg/kg bdwt	99	100768
Pendimethalin	Mus	musculus	House mouse	CEL	CEL	PCCM	NOAEL	LOAEL	4 d		241.8105	483.621	mg/kg bdwt	98.9	97687
Pendimethalin	Mus	musculus	House mouse	CEL	CEL	PCCM	LOAEL		5 d		120.8558		mg/kg bdwt	98.9	97687
Pendimethalin	Crepis	capillaris	Smooth Hawksbeard	CEL	CEL	PCCM	LOAEL		0.166667 d		0.004945		%	98.9	97687
Pendimethalin	Mus	musculus	House mouse	GRO	DVP	BSCY	NOAEL		4 d		0.04		ug/ml	100	82041
Pendimethalin	Mus	musculus	House mouse	CEL	GEN	CABR	LOAEL		4 d		483.621		mg/kg bdwt	98.9	97687
Pendimethalin	Mus	musculus	House mouse	CEL	GEN	APOP	LOAEL		4 d		0.04		ug/ml	100	82041
Pendimethalin	Crepis	capillaris	Smooth Hawksbeard	CEL	GEN	CABR	NOAEL		1 d		0.3956		%	98.9	97687
Pendimethalin	Gallus	domesticus	Domestic Chicken	GRO	GRO	WGHT	LOAEL		19 d		0.4125		%	33	104663
Pendimethalin	Eisenia	fetida	earthworm	GRO	GRO	GGRT	LOEC		21 d		10		mg/kg	>98	79503
Pendimethalin	Eisenia	fetida	earthworm	GRO	GRO	GGRT	IC50		21 d		113(84 TO 115)		mg/kg	>98	79503
Pendimethalin	Rattus	norvegicus	Norway rat	GRO	GRO	WGHT	NOAEL		21 d		0.5544		mg/org/d	33	77497
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC50		<=7 d		1960		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC10		<=7 d		380		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC10		<=7 d		885		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC50		<=7 d		1950		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC50		<=7 d		303		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC10		<=7 d		96		nM	98	80954

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC10		<=7	d	128		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	GGRO	EC50		<=7	d	630		nM	98	80954
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	RLGR	EC10		7	d	0.0882		mg/L	98	88207
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	RLGR	EC50		7	d	0.62132		mg/L	98	88207
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	RLGR	EC50		7	d	0.2744		mg/L	98	88207
Pendimethalin	Lemna	minor	Duckweed	GRO	GRO	RLGR	EC10		7	d	0.04018		mg/L	98	88207
Pendimethalin	Andropogon	gerardii	Big bluestem	GRO	GRO	GGRO	LOEC		14	d	1		ppm	>98	79503
Pendimethalin	Andropogon	gerardii	Big bluestem	GRO	GRO	GGRO	IC50		14	d	1.33(0.72 TO 1.66)		ppm	>98	79503
Pendimethalin	Sorghastrum	nutans	Indiangrass	GRO	GRO	GGRO	LOEC		14	d	1		ppm	>98	79503
Pendimethalin	Sorghastrum	nutans	Indiangrass	GRO	GRO	GGRO	IC50		14	d	1.33(0.84 TO 2.13)		ppm	>98	79503
Pendimethalin	Lactuca	sativa	Lettuce	GRO	GRO	GGRO	NOEC	LOEC	7	d	1		4 ppm	>98	79503
Pendimethalin	Lactuca	sativa	Lettuce	GRO	GRO	GGRO	IC50		7	d	7.74(5.67 TO 10.57)		ppm	>98	79503
Pendimethalin	Panicum	virgatum	Switchgrass	GRO	GRO	GGRO	NOEC	LOEC	14	d	1		4 ppm	>98	79503
Pendimethalin	Panicum	virgatum	Switchgrass	GRO	GRO	GGRO	IC50		14	d	6.23(4.68 TO 8.28)		ppm	>98	79503
Pendimethalin	Rattus	norvegicus	Norway rat	BCM	HRM	TSHT	LOAEL		21	d	0.5544		mg/org/d	33	77497
Pendimethalin	Gossypium	sp.	Cotton	PHY	IMM	IFCT	NOAEL		30	d	2		L/ha	100	81980
Pendimethalin	Oryza	sativa	Rice	PHY	IMM	IFCT	NOAEL			hv	1.338		lb/acre	100	98114
Pendimethalin	Proisotoma	minuta	Collembolan	MOR	MOR	MORT	LD50		7	d	10.4(7.37 TO 14.6)		mg/L	100	81754
Pendimethalin	Mus	musculus	House mouse	MOR	MOR	MORT	NR-ZERO		2	d	1267.2		mg/kg bdwt	99	100768
Pendimethalin	Mus	musculus	House mouse	MOR	MOR	MORT	NR-ZERO		2	d	2870.01		mg/kg bdwt	99	100768
Pendimethalin	Armadillidium	sp.	Pillbug	MOR	MOR	SURV	NOEC		14	d	200		ppm	>98	79503
Pendimethalin	Armadillidium	sp.	Pillbug	MOR	MOR	SURV	LC50		14	d	200		ppm	>98	79503
Pendimethalin	Phomopsis	amaranthicola	Fungus	MOR	MOR	MORT	LD50		1.0125	d	16.4		L/ha	100	96666
Pendimethalin	Phomopsis	amaranthicola	Fungus	MOR	MOR	MORT	LD50		1.0125	d	15.58		L/ha	100	96666

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Myriophyllum	aquaticum	Parrot feather watermilfoil	GRO	MPH	LGTH	NOAEL		14 d		0.266		mg/L	40	105140
Pendimethalin	Leishmania	infantum	Protist	PHY	PHY	H3UP	IC50		2 d		23.3		uM	100	104651
Pendimethalin	Leishmania	infantum	Protist	PHY	PHY	H3UP	IC50		2 d		12.6		uM	100	104651
Pendimethalin	NR	Plantae	Plant kingdom	PHY	PHY	NUPT	LOAEL		hv		1		Al kg/ha	100	98119
Pendimethalin	Protosiphon	botryoides	Siphonous green algae	PHY	PHY	PSYN	NOAEL	LOAEL	16 d		0.475	0.95	mg/L	95	62243
Pendimethalin	Oryza	sativa	Rice	PHY	PHY	EXCR	LOAEL		hv		1.338		lb/acre	100	98114
Pendimethalin	Invertebrates	Invertebrates	NR	POP	POP	GPOP	NOAEL		9 d		1.1		Al kg/ha	100	71507
Pendimethalin	NR	Nemata	Nematode phylum	POP	POP	PGRT	LOAEL		75 d		1		Al kg/ha	100	40177
Pendimethalin	Cryptosporidium	parvum	Protozoan	POP	POP	ABND	IC50		2 d		0.19		uM	100	104391
Pendimethalin	Cryptosporidium	parvum	Protozoan	POP	POP	ABND	IC90		2 d		0.49		uM	100	104391
Pendimethalin	Meloidogyne	incognita	Root-knot nematode	POP	POP	ABND	LOAEL		hv		0.75		Al kg/ha	100	73788
Pendimethalin	Synechococcus	leopoliensis	Blue-green algae	POP	POP	PGRT	EC50		4 d		72.4436		mg/L	100	19852
Pendimethalin	Fusarium	sp.	Fungi	POP	POP	ABND	LOAEL		~42 d		1.784		lb/acre	100	77521
Pendimethalin	Macrophoma	phaseolina	Fungi	POP	POP	ABND	LOAEL		25 d		0.892		lb/acre	100	98117
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	LOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	LOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	INDX	LOAEL		1 d		0.37464		lb/acre	100	97548
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	INDX	LOAEL		1 d		0.37464		lb/acre	100	97548
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NA	stg	1.5164		lb/acre	100	97138

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Thanatephorus	cucumeris	Fungi	POP	POP	ABND	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Phytophthora	cryptogea	Fungi	POP	POP	ABND	NOAEL	LOAEL	90	d	0.99904	1.99808	lb/acre	100	94266
Pendimethalin	Phytophthora	cryptogea	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	Phytophthora	cryptogea	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	Phytophthora	cambivora	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	Phytophthora	cambivora	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	Phytophthora	cambivora	Fungi	POP	POP	ABND	LOAEL		90	d	0.99904		lb/acre	100	94266
Pendimethalin	Phytophthora	megasperma	Fungi	POP	POP	ABND	NOAEL	LOAEL	90	d	0.99904	1.99808	lb/acre	100	94266
Pendimethalin	Phytophthora	megasperma	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	Phytophthora	megasperma	Fungi	POP	POP	ABND	LOAEL		90	d	1.99808		lb/acre	100	94266
Pendimethalin	NR	Fungi	Fungi Kingdom	POP	POP	ABND	NOAEL		20	d	0.892		lb/acre	100	98116
Pendimethalin	NR	Fungi	Fungi Kingdom	POP	POP	ABND	NOAEL		20	d	0.892		lb/acre	100	98116
Pendimethalin	Algae	Algae	Algae	POP	POP	PSYN	NOEC		1	d	0.05		mg/L	100	71668
Pendimethalin	Algae	Algae	Algae	POP	POP	GPOP	NOAEL		9	d	1.1		Al kg/ha	100	71507
Pendimethalin	Lemna	aequinoctiales	Duckweed	POP	POP	ABND	IC50		8	d	1.4E-07		M	100	78497
Pendimethalin	Scenedesmus	quadricauda	Green algae	POP	POP	PGRT	EC50		4	d	37.059		mg/L	33	101396
Pendimethalin	Scenedesmus	acutus	Green algae	POP	POP	ABND	IC50		1	d	3.2E-06		M	100	78497
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		1 TO 3	d	0.02475		mg/L	99	2478
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC100		10	d	0.03168		mg/L	99	2478
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		0 TO 3	d	0.02178		mg/L	99	2478
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		1 TO 2	d	0.02574		mg/L	99	2478
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	ABND	EC50		0 TO 3	d	0.02079		mg/L	99	2478

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Chlamydomonas	reinhardtii	Green algae	POP	POP	PGRT	EC50		3 d		1.6094		mg/L	100	19852
Pendimethalin	Chlorella	kessleri	Green algae	POP	POP	PGRT	EC50		3 d		5.0738		mg/L	100	19852
Pendimethalin	Scenedesmus	subspicatus	Green algae	POP	POP	PGRT	EC50		3 d		5.8216		mg/L	100	19852
Pendimethalin	Scenedesmus	quadricauda	Green algae	POP	POP	PGRT	EC50		3 d		0.4677		mg/L	100	19852
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		3 d		0.5888		mg/L	100	19852
Pendimethalin	Stichococcus	bacillaris	Green algae	POP	POP	PGRT	EC50		3 d		15.4258		mg/L	100	19852
Pendimethalin	Chlorella	pyrenoidosa	Green algae	POP	POP	PGRT	EC50		4 d		0.13002		mg/L	33	61983
Pendimethalin	Chlorella	vulgaris	Green algae	POP	POP	PGRT	EC50		4 d		0.092664		mg/L	33	65938
Pendimethalin	Scenedesmus	acutus	Green algae	POP	POP	PGRT	EC50		4 d		0.161634		mg/L	33	65945
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC10		3 d		0.02058		mg/L	98	88207
Pendimethalin	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		3 d		0.36064		mg/L	98	88207
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	NOAEL		hv		1.5		Al kg/ha	5	98541
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		hv		1		Al kg/ha	100	98119
Pendimethalin	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL		hv		1.5		Al kg/ha	5	98541
Pendimethalin	Oryza	sativa	Rice	POP	POP	ABND	LOAEL		hv		1		Al kg/ha	100	98119
Pendimethalin	Protosiphon	botryoides	Siphonous green algae	POP	POP	CHLA	LOAEL		16 d		0.2375		mg/L	95	62243
Pendimethalin	Brassica	juncea	Brown mustard	POP	POP	BMAS	NOAEL		75 d		0.892		lb/acre	100	40177
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		hv		0.669		lb/acre	100	73788
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		hv		0.669		lb/acre	100	73788
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		hv		0.669		lb/acre	100	73788
Pendimethalin	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		75 d		0.892		lb/acre	100	40177
Pendimethalin	Sesamum	orientale	Sesame	POP	POP	BMAS	NOAEL		NA	hv	0.892		lb/acre	100	98117
Pendimethalin	Glycine	max	Soybean	POP	POP	ABND	LOAEL		NR	stg	1.5164		lb/acre	100	97138

Chemical Name	Genus	Species	Common Name	Effect Group	Effect	Meas	Endpt1	Endpt2	Dur Preferred	Dur Unit Preferred	Conc Value1 Preferred	Conc Value2 Preferred	Conc Units Preferred	% Purity	Ref #
Pendimethalin	Glycine	max	Soybean	POP	POP	ABND	LOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	ABND	NOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	ABND	NOAEL		NR	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	BMAS	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	BMAS	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	BMAS	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Glycine	max	Soybean	POP	POP	BMAS	NOAEL		NA	stg	1.5164		lb/acre	100	97138
Pendimethalin	Folsomia	candida	Springtail	REP	REP	PROG	NOEC	LOEC	28	d	30	90	ppm	>98	79503
Pendimethalin	Folsomia	candida	Springtail	REP	REP	PROG	IC50		28	d	47(44 TO 51)		ppm	>98	79503
Pendimethalin	Linum	usitatissimum	Flax	REP	REP	GERM	NOAEL		3	d	100		ppm	100	98116
Pendimethalin	Lepidium	sativum	Garden cress	REP	REP	GERM	IC50		~7	d	0.000028		M	100	78497
Pendimethalin	Sesamum	orientale	Sesame	REP	REP	GERM	NOAEL		20	d	0.892		lb/acre	100	98117