Appendix G

ECOTOX Literature

Open Literature Review Summary

Chemical Name: Oxyfluorfen

PC Code: 111601

ECOTOX Record Number and Citation:

Hassanein, H. M. A. (2002). Toxicological Effects of the Herbicide Oxyfluorfen on Acetylcholinesterase in Two Fish Species: *Oreochromis niloticus* and *Gambusia affinis*. *J.Environ.Sci.Health Part A* 37: 521-527.

EcoReference No.: 72800

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: 6/6/08

Summary of Study Findings:

Mature *Oreochromis niloticus* and *Gambusia affinis* were collected from the River Nile at Sohag Governorate and acclimatized to the laboratory for 10 days prior to the start of the study. An unknown end-use product of oxyfluorfen was diluted on the basis of the respective LC_{50}s for the two species: 3 mg/L for *O. niloticus* and 4.3 mg/L for *G. affinis.*

For acute exposure, fish were exposed to the LC_{50} for 6 days and were sampled at 2, 4, and 6 days. For sub-acute exposure, fish were exposed to 1/3 LC_{50} for 15 days and sampled at 5, 10, and 15 days. For chronic exposure, fish were exposed to 1/10 LC_{50} for 30 days and sampled at 10, 15, and 30 days. Ten fish from each species were decapitated, brains were removed, washed, and homongenized for the AChE assay. Test concentrations in the water were not measured.

The author concluded that the fish responded to the herbicide stress as indicated by measurable reductions in brain AChE, although at different rates for the two species.

Description of Use in Document (QUAL, QUAN, INV): INV

Rationale for Use:

Provides acetylcholinesterase activity levels in two species of fish exposed to several different concentrations of oxyfluorfen.

Reasons for INVALID classification:

- Based on the limited data presented in the study it was impossible to determine if the treated fish AChE levels were being compared to control fish sampled at the start of the study or control fish sampled at the same time points as the treated fish.
- The concentration of the commercial product (Goal) was provided as 23.6 g/100mL and was diluted to testing concentrations of 0.3 to 4.3 mg/L. It was not specified if the testing concentrations were in terms of active ingredient or in terms of end-use product.

Primary Reviewer:

Christine Hartless, Ph.D., Wildlife Biologist, ERB1

Secondary Reviewer:

Marie Janson, Environmental Scientist, ERB1

Open Literature Review Summary

Chemical Name: Oxyfluorfen

PC Code: 111601

ECOTOX Record Number and Citation:

Hoffman, D. J., Spann, J. W., LeCaptain, L. J., Bunck, C. M., and Rattner, B. A. (1991). Developmental Toxicity of Diphenyl Ether Herbicides in Nestling American Kestrels. *J.Toxicol.Environ.Health* 34: 323-336.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: 6/3/08

Summary of Study Findings:

Captive-raised American kestrel nestlings were evaluated for developmental toxicity caused by the diphenyl ether herbicides: oxyfluorfen, nitrofen, and bifenox.

Pairs of pen-raised American kestrels were randomly assigned to outdoor breeding pens (described in detail in paper). Pairs with four hatchlings were used in the study. Each hatchling was randomly assigned a treatment (control, technical nitrofen, technical oxyfluorfen, or technical bifenox). The control consisted of corn oil, and all herbicides were dissolved in corn oil before administration. Treatments were administered at 5 µL/g bodyweight. Concentrations of the three test materials were 500 mg/kg bodyweight for the range-finding test. Each nestling was weighed and dosed daily from day 1 to day 10.

Results of the range finding test were no mortality for oxyfluorfen, Nitrofen caused mortality and hepatic lesions in all three nestlings evaluated within four days. Bifenox caused mortality in two out of three nestlings.

Since there was no mortality due to oxyfluorfen in the range-finding test, the authors chose not to use oxyfluorfen in the remainder of the study.

Description of Use in Document (QUAL, QUAN, INV): QUAL

Rationale for Use:

Provides toxicity information on very young birds in a species not commonly tested for pesticide toxicity. Provides further validation that oxyfluorfen is not acutely toxic to birds.

Limitations of Study:

Any sublethal effects due to oxyfluorfen for the range finding test were not reported.

A definitive LD_{50} for oxyfluorfen was not attained.

Primary Reviewer:

Christine Hartless, Ph.D., Wildlife Biologist, ERB1

Secondary Reviewer:

Marie Janson, Environmental Scientist, ERB1

Open Literature Review Summary

Chemical Name: Oxyfluorfen

PC Code: 111601

ECOTOX Record Number and Citation:

Peixoto, F., Alves-Fernandes, D., Santos, D., and Fontainhas-Fernandes, A. (2006). Toxicological Effects of Oxyfluorfen on Oxidative Stress Enzymes in Tilapia *Oreochromis niloticus. Pestic.Biochem.Physiol.* 85: 91-96.

EcoReference No.: 95831

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: 6/19/08

Summary of Study Findings:

Adult tilapia (*Oreochromis niloticus*, mean body weight=87.1 g, mean length=16.7 cm) used in this study were laboratory reared and maintained. Thirty fish of both sexes were distributed to each of nine 100L tanks. There were three tanks for each treatment group (control, 0.3 mg ai/L, and 0.6 mg ai/L). Water temperature was maintained at 25^{o}C; photoperiod was 12D:12L; and flow rate was 5L/min.

Most fish (exact number not specified) survived the whole period of exposure to oxyfluorfen (300 µg/L), but only about 60% of the fish exposed to 600 µg/L were still alive at the end of the experiment. The mortality that occurred for both concentrations was observed during the last days of the 21-day experiment. Sampling occurred on days 7, 14, and 21.

The total liver protein concentration in tilapia exposed to oxyfluorfen increased at all sampling times, although the levels appeared to be highest in fish exposed to the lowest concentration. The authors hypothesized that the increase of the protein content could be the result of an elevated liver metabolic activity induced by oxyfluorfen. The enzymes included in this study also differ in their responses to oxyfluorfen. CAT (enzymes that remove the hydrogen peroxide which is metabolized to oxygen and water) levels tended to increase relative to the control. SOD (metalloenzymes that plays a crucial antioxidant role and constitutes the primary defense against the toxic effect of oxygen in aerobic organisms) levels decreased relative to the control. GR (maintains the GSH/GSSG homeostasis under stress conditions) activity was high at both tested concentrations at all the sampling days. After 7 days of treatment at both concentrations tilapia showed
a signifcant increase in GST levels, although the enzymatic activity decreased at 14 and 21 days of exposition when compared with the control.

Description of Use in Document (QUAL, QUAN, INV): QUAN

Rationale for Use:

Provides toxicity information (lethal and sub-lethal) on an additional species not commonly tested for pesticide toxicity.

Limitations of Study:

A definitive LD_{50} for oxyfluorfen was not attained.

The commercial (end-use) product used in this study was not specified. It was specified that the material was from Rohm and Hass with a concentration of 23.6 g/100mL was used and the dilutions were prepared by emulsifying in water.

Primary Reviewer:

Christine Hartless, Ph.D., Wildlife Biologist, ERB1

Secondary Reviewer:

Marie Janson, Environmental Scientist, ERB1

Open Literature Review Summary

Chemical Name: Oxyfluorfen

PC Code: 111601

ECOTOX Record Number and Citation:

EcoReference No.: 73249

Warren, S. L. and Skroch, W. A. (1991). Evaluation of Six Herbicides for Potential Use in Tree Seed Beds. *J.Environ.Hortic.* 9: 160-163.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: 6/6/08

Summary of Study Findings:

Five pre-emergent herbicides, Pennant, Surflan, Devrinol, Ornamental Herbicide 2(OH-2), and Ronstar, were applied over 8 species of newly seeded deciduous trees immediately after seeding. One post-emergent herbicide, Poast, was applied when seedlings were actively growing. Negative control plots were also included. There were 4 replicates for each species-herbicide treatment combination.

The remainder of this summary will only include information relevant to OH-2.

Forty-nine tree seeds were planted in 2.5x2 foot sub-sub-plots (each plot was a 5x8 foot raised bed, total of 8 species planted per bed). There was a 2 foot buffer between each plot, each plot was only treated with one herbicide. Fall planted species (dogwood, pin oak, willow oak, and sugar maple) were planted on Dec 6, 1986 and spring seeded species (river birch, redbud, red maple, and sweet gum) were planted on June 1, 1987. Plots were treated with OH-2 immediately after planting and on Sept 25, 1987 and March 2, 1988. OH-2 was applied at two rates (2 lbs oxyfluorfen/acre + 1 lb pendimethalin and 4 lbs oxyfluorfen + 2 lbs pendimethalin). Results in this paper are based on a harvest occurring on Jun 5, 1988. Because of poor germination of red maple, those results are not presented in the paper.

Statistical analysis was conducted using ANOVA and Fisher's least significant difference (LSD) test at $p = 0.05$. Variables analyzed were height (from soil surface to terminal bud), diameter (at the soil surface), and survival. Analyses were conducted using data from all herbicide treatments, only results for OH-2 are summarized in the table below. Bolded means in the table below were significantly different from the respective check.

Species and Treatment	Height (cm)	Diameter (mm)	Survival (%)
REDBUD			
OH-2 (2 + 1 lbs ai/acre)	75	7.3	87.8
OH-2 (4 + 2 lbs ai/acre)	**55***	**5.7***	91.5
Check	84	7.8	89.1
RIVER BIRCH			
OH-2 (2 + 1 lbs ai/acre)	82	8.2	**37.8***
OH-2 (4 + 2 lbs ai/acre)	**42***	**4.6***	**12.2***
Check	106	8.8	69.2
SWEET GUM			
OH-2 (2 + 1 lbs ai/acre)	**47***	8.4	44.2
OH-2 (4 + 2 lbs ai/acre)	**17***	**6.8***	**6.8***
Check	67	7.3	66.0
WILLOW OAK			
OH-2 (2 + 1 lbs ai/acre)	67	8.4	89.4
OH-2 (4 + 2 lbs ai/acre)	51	6.8	85.5
Check	66	7.3	86.8
PIN OAK			
OH-2 (2 + 1 lbs ai/acre)	93	**10.2***	85.0
OH-2 (4 + 2 lbs ai/acre)	78	9.3	87.5
Check	82	8.6	89.2
FLOWERING DOGWOOD			
OH-2 (2 + 1 lbs ai/acre)	**29***	**4.7***	**5.8***
OH-2 (4 + 2 lbs ai/acre)	**0***	**0***	**0***
Check	73	8.0	82.7
SUGAR MAPLE			
OH-2 (2 + 1 lbs ai/acre)	**3***	**0.4***	**2.6***
OH-2 (4 + 2 lbs ai/acre)	**0***	**0***	**0***
Check	47	6.1	57.6

Description of Use in Document (QUAL, QUAN, INV): QUAL

Rationale for Use:

This study evaluated the effect of oxyfluorfen on growth and survival of woody tree seedlings. Woody plants are generally not included in the guideline toxicity studies typically submitted to the Agency.

Limitations of Study:

- Oxyfluorfen was used in a mixture product (OH-2) with pendimethalin, another herbicide. It is not possible to determine whether observed effects were due to oxyflurofen, pendimethalin, or a combination of the two herbicides.
- OH-2 was only used at two application rates; IC_{50}'s could not be determined for this study.

Primary Reviewer:

Christine Hartless, Ph.D., Wildlife Biologist, ERB1

Secondary Reviewer:

Marie Janson, Enviornmental Scientist, ERB1

Open Literature Review Summary

Chemical Name: Oxyfluorfen

PC Code: 111601

ECOTOX Record Number and Citation:

This review includes a summary of data from three papers written by the same first author (Jan Krijt) describing and evaluating effects of oxyfluorfen on mice liver hepatocytes and kidney tissue. This is a subset of a larger series of papers published in various journals over a period extending from 1993-2003 evaluating effects of several diphenyl ether herbicides in mice. Papers not reviewed here did not include oxyfluorfen.

E95026 Krijt, J, van Hosteijn, I, Vokurka, M, and Blaauboer, B. (1993) Effect of diphnyl ether herbicides and oxadiazon on porphyrin biosynthesis in mouse liver, rat primary hepatocyte culture and HepG2 cells. *Archives of Toxicology* 67:255-261.

E95589 Krijt, J, Vokurka, M, Sanitrák, J, and Janousek, V. (1994) Effect of Protophyrinogen Oxidase Inhibitors on Mammalian Porphyrin Metabolism. *American Chemical Society Symposium Series* 559:247-254.

Krijt, J, Stranska, P, Maruna, P, Vokurka, M, and Sanitrak, J. (1997) Herbicide-induced experimental variegate porphyria in mice: tissue porphyrinogen accumulation and response to porphyrogenic drugs. *Canadian Journal of Physiology and Pharmacology* 75:1181-1187.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: 5/30/08, 8/22/08

Summary of Study Findings:

Oxyfluorfen is a peroxidizing enzyme, inhibiting the enzyme protoporphyrin-III oxidase, which catalyzes the formation of protoporphyrin IX. Protoporphyrin IX is a precursor molecule common to both plants and animals. In plants, it is a step in chlorophyll biosynthesis, and in animals, it is a step in hemoglobin biosynthesis. Some chemicals of this class (diphenyl-ether herbicides) have been associated with peroxisome proliferation, which can induce hepatocellular carcinomas in rodents. (Smith and Elcombe 1989, as cited in Krijt *et al.*, 1993).

Krijt *et al.*, 1993: Authors investigated the effects of oxyfluorfen (and other chemicals) *in vivo* (mouse livers), and *in vitro* (rat primary hepatocyte culture and Hep G2 cells). Based on a range-finding test with fomesafen, authors tested "0.25% (w/w) concentration of the herbicides in the diet" for a 10-day period. Conversion of 0.25% to ppm in diet yields 2,500 ppm.

For the *in vivo* tests each herbicide and the control were tested with 4 male C57B1/6J mice per treatment. Authors report statistically significant effects ($p<0.05$, student t-test) in the

oxyfluorfen-treated group for the endpoints of body weight (decrease) , relative liver weight (increase), liver porphyrins (increase), fecal porphyrins (increase), liver microsomal ethoxyresorufin and pentoxyresorufin O-dealkylation (EROD and PROD) activity (increase), and peroxisomal β-oxidation activity(increase). Effects on cytochrome P-450 level were not significant. Raw data were not available to confirm any of the statistical analyses.

Based on this study, there appears to be in decrease in body weight and a modification in liver activity for mice fed a diet containing 2,500 ppm oxyfluorfen for 10 days.

Krijt *et al.*, 1994: Authors investigated the effects of oxyfluorfen administered in the diet on biochemical endpoints (primarily porphyrin concentrations) in the liver, kidney, and bile of male ICR mice. In all cases, treatment groups appeared to consist of 3 or 4 mice. Results are presented in what appears to be (but is not specifically note as) mean ± SD.

- A diet including 2,500 ppm of oxyfluorfen fed to male ICR strain mice increases liver, bile, and fecal content as compared to controls (Table I, pg 248).
- Oxyfluorfen fed to male C57Bl/6J for 3 months at a concentration of 2,500 ppm do not cause a change in total microsomal cytochrome P-450 or EROD (ethoxyresorufin O-deethylase activity), but did cause an increase in PROD (hepatic pentoxyresorufin O-dealkylase activity) as compared to controls. This particular strain of mice is highly susceptible to P450IA induction by porphyrogenic aromatic hydrocarbons (Table V, pg 251).

Table I. The Effect of Protoporphyrinogen Oxidase-inhibiting Herbicides on Porphyrin Accumulation in Male ICR Mice

Treatment	*Liver Porphyrin Content (nmol/g wet wt)*	*Bile Porphyrin Content (nmol/g wet wt)*	*Fecal Porphyrin Content (nmol/g dry wt)*
Control	1.2 ± 0.1	9.2 ± 5.1	28.9
Fomesafen	3.6 ± 0.1	134.5 ± 33.6	296.7
Oxyfluorfen	15.8 ± 3.4	340.3 ± 123.3	543.0
Oxadiazon	29.5 ± 2.1	481.2 ± 170.1	917.0

Mice were fed 2500 ppm of the herbicides in the diet for 10 days (n=3). Porphyrins were extracted and esterified by methanol/sulphuric acid (95:5 v/v), and quantified on a spectrofluorimeter (407/607 nm) using protoporphyrin dimethyl ester as standard. Fecal porphyrin content was determined in pooled samples.

Table V. Changes in Cytochrome P450 Content and Activities after Long Term Treatment with Diphenyl Ether Herbicides

Treatment	*Total Microsomal P450 (nmol/mg)*	*EROD (pmol/mg/min)*	*PROD (pmol/mg/min)*
Control	0.60 ± 0.09	75 ± 13	18 ± 2
Oxyfluorfen	0.41 ± 0.02	73 ± 13	61 ± 10
Fomesafen	0.64 ± 0.05	75 ± 9	30 ± 2

Male C57Bl/6J mice were fed 2500 ppm of the herbicides in the diet for 3 months. Results are expressed per mg of microsomal protein.

Authors conclude "rather high doses are needed to produce relatively slight changes in porphyrin concentrations in vivo. Also, the accumulation of liver porphyrins induced by fomesafen treatment is clearly reversible." (pg 253) The hypothesis testing reversibility in liver effects caused by oxyfluorfen was not tested in this paper; however, both oxyfluorfen and fomesafen belong to the same class of chemicals (diphenyl-ether herbicides) and the mode of action may be similar.

Krijt *et al.*, 1997: Authors investigated the dietary effects of oxyfluorfen (and oxadiazon) in male BALB/c mice. The short-term study involved administration of oxyfluorfen (99.4% purity) in the diet at 125, 200, or 1000 ppm for nine days. At 1000 ppm in the diet, oxyfluorfen resulted in experimental porphyria, which resembles the acute phase of human variegate porphyria (VP). The authors reported the following statistically significant changes (raw data not available):

- Dose-dependent increase of relative liver weight (control, 5.0 ± 0.4%; oxyfluorfen at 1000 ppm, 9.2 ± 0.8%)
- Serum alanine aminotransferase activity increase (control, 56 ± 6 U/L; oxyfluorfen at 1000 ppm, 162 ± 12 U/L)
- Increase in porphyrin content in both liver and kidneys (200 and 1000 ppm)
- Increase in urinary porphyrins (control, 1510 ± 540 nmol/L; oxyfluorfen at 200 ppm 3100 ± 630 nmol/L; oxyfluorfen at 1000 ppm 20630 ± 2490 nmol/L)
- Increase in urinary porphobilinogen (control, <50 μmol/L; oxyfluorfen at 1000 ppm, 3380 ± 506 μmol/L)
- Decrease in liver and kidney protoporphyrinogen oxidase (PPO) activity (200 and 1000 ppm)
- Increase in liver pentoxyresorufin dealkylation (PROD) activity (200 and 1000 ppm)

Based on these results, the most sensitive endpoints were liver and kidney increase in porphyrin content, increase in urinary porphyrins, increase in liver and kidney PPO, and increase in liver PROD activity (LOAEC = 200 ppm, NOAEC = 125 ppm). This study shows effects at much lower concentrations than the 1993 and 1994 studies conducted by Krijt *et al.*

Description of Use in Document (QUAL, QUAN, INV): QUAL

Rationale for Use:

Provides insight as to how chronic effects on mammals (and by extension, other animals) are mediated. Subacute (10 day) growth endpoint derived from Krijt *et al.* 1993 (LOAEC decreased weight at 2,500 ppm diet, a NOAEC was not defined) is higher than current guideline-derived reproductive NOAEC of 400 ppm and LOAEC of 1600 ppm. However, subacute endpoints derived from Krijt *et al*. 1997 (LOAEC = 200 ppm, NOAEC = 125 ppm) shows higher toxicity than guideline-derived reproductive NOAEC and LOAEC.

Limitations of Study:

It is uncertain how modifications in liver porphyrin levels might affect wild mammals at the individual or population level.

Treatment groups were small (n=3 or 4).

Strains of laboratory mice are inbred, and lack genetic variability found in wild populations that may affect response to the toxicant. Different strains of mice were shown to react differently.

Primary Reviewers:

Christine Hartless, Ph.D., Wildlife Biologist, ERB1

Anita Ullagaddi, M.S., Environmental Scientist, ERB1

Secondary Reviewer:

Paige Doelling, Ph.D., Fisheries Biologist, ERB1

Accepted ECOTOX Data Table
The code list for ECOTOX can be found at: http://cfpubepa.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 #
Oxyfluorfen	Mus	musculus	House mouse	BCM	BCM	PORP	LOAEL		90	d	0.2		%	100	95399
Oxyfluorfen	Mus	musculus	House mouse	BCM	ENZ	P450	LOAEL		90	d	0.2		%	100	95399
Oxyfluorfen	Mus	musculus	House mouse	BCM	BCM	PORP	LOAEL		10	d	0.25		%	100	95026
Oxyfluorfen	Mus	musculus	House mouse	BCM	ENZ	EROD	LOAEL		10	d	0.25		%	100	95026
Oxyfluorfen	Scenedesmus	acutus	Green algae	BCM	BCM	FLRS	NOAEL		0.25	d	10		uM	100	98189
Oxyfluorfen	Tilapia	nilotica	Nile tilapia	BCM	BCM	FFTA	LOAEL		7	d	0.3		mg/L	100	95831
Oxyfluorfen	Tilapia	nilotica	Nile tilapia	BCM	ENZ	SODA	LOAEL		7	d	0.3		mg/L	100	95831
Oxyfluorfen	Tilapia	nilotica	Nile tilapia	BCM	ENZ	ACHE	LOAEL		2	d	3		mg/L	100	72800
Oxyfluorfen	Gambusia	affinis	Western mosquitofish	BCM	ENZ	ACHE	LOAEL		2	d	4.3		mg/L	100	72800
Oxyfluorfen	Tilapia	nilotica	Nile tilapia	BCM	ENZ	ACHE	LOAEL		5	d	1		mg/L	100	72800
Oxyfluorfen	Gambusia	affinis	Western mosquitofish	BCM	ENZ	ACHE	LOAEL		5	d	1.43		mg/L	100	72800
Oxyfluorfen	Tilapia	nilotica	Nile tilapia	BCM	ENZ	ACHE	LOAEL		10	d	0.3		mg/L	100	72800
Oxyfluorfen	Gambusia	affinis	Western mosquitofish	BCM	ENZ	ACHE	NOAEL		30	d	0.43		mg/L	100	72800
Oxyfluorfen	Scenedesmus	acutus	Green Algae	BCM	BCM	CHLO	LOAEL		0.5	d	0.0075		mg/L	100	71697
Oxyfluorfen	Scenedesmus	acutus	Green Algae	BCM	ENZ	CTLS	LOAEL		1	d	0.0075		mg/L	100	71697
Oxyfluorfen	Mus	musculus	House mouse	GRO	GRO	WGHT	NOAEL		90	d	0.2		%	100	95399
Oxyfluorfen	Mus	musculus	House mouse	GRO	MPH	SMIX	LOAEL		90	d	0.2		%	100	95399
Oxyfluorfen	Mus	musculus	House mouse	GRO	MPH	WGHT	LOAEL		10	d	0.25		%	100	95026

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 #
Oxyfluorfen	Mus	musculus	House mouse	GRO	GRO	WGHT	LOAEL		10	d	0.25		%	100	95026
Oxyfluorfen	Oryza	sativa	Rice	GRO	GRO	HGHT	NOAEL			hv	0.5		kg/ha	100	98543
Oxyfluorfen	Scenedesmus	acutus	Green Algae	GRO	MPH	SIZE	LOAEL		2	d	0.0075		mg/L	100	71697
Oxyfluorfen	Phomopsis	amaranthicola	Fungus	MOR	MOR	MORT	LD50		1.0125	d	1.23096		lb/acre	100	96666
Oxyfluorfen	Phomopsis	amaranthicola	Fungus	MOR	MOR	MORT	LD50		1.0125	d	1.23096		lb/acre	100	96666
Oxyfluorfen	Dunaliella	bioculata	Green algae	MOR	MOR	MORT	NR-LETH		2	d	100		uM	100	13100
Oxyfluorfen	Falco	sparverius	American kestrel	MOR	MOR	MORT	NR-ZERO		10	d	500		mg/kg bdwt	98.5	97949
Oxyfluorfen	Oryza	sativa	Rice	PHY	IMM	IFCT	NOAEL			hv	0.0892		lb/acre	100	98114
Oxyfluorfen	Oryza	sativa	Rice	PHY	PHY	EXCR	LOAEL			hv	0.0892		lb/acre	100	98114
Oxyfluorfen	NR	Plantae	Plant kingdom	PHY	PHY	NUPT	LOAEL			hv	0.25		AI kg/ha	100	98119
Oxyfluorfen	Scenedesmus	acutus	Green algae	PHY	PHY	ETSA	IC50		0.625	d	40		uM	100	98283
Oxyfluorfen	Dactylaria	higginsii	Fungus	POP	POP	DMTR	LOAEL		28	d	12.5		ml/eu	100	88572
Oxyfluorfen	Chlamydomonas	reinhardtii	Green algae	POP	POP	PGRT	EC50		3	d	0.2743		mg/L	100	19852
Oxyfluorfen	Synechococcus	leopoliensis	Blue-green algae	POP	POP	PGRT	EC50		4	d	49.6761		mg/L	100	19852
Oxyfluorfen	Scenedesmus	subspicatus	Green algae	POP	POP	PGRT	EC50		3	d	0.000676		mg/L	100	19852
Oxyfluorfen	Chlorella	kessleri	Green algae	POP	POP	PGRT	EC50		3	d	38.3685		mg/L	100	19852
Oxyfluorfen	Pseudokirchneriella	subcapitata	Green algae	POP	POP	PGRT	EC50		3	d	0.0263		mg/L	100	19852
Oxyfluorfen	Scenedesmus	quadricauda	Green algae	POP	POP	PGRT	EC50		3	d	0.00219		mg/L	100	19852
Oxyfluorfen	Stichococcus	bacillaris	Green algae	POP	POP	PGRT	EC50		3	d	11.1592		mg/L	100	19852
Oxyfluorfen	Chlorella	pyrenoidosa	Green algae	POP	POP	PGRT	EC50		4	d	3.24648		mg/L	81	61983

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 #
Oxyfluorfen	Chlorella	vulgaris	Green algae	POP	POP	PGRT	EC50		4	d	1.205928		mg/L	81	65938
Oxyfluorfen	Scenedesmus	acutus	Green algae	POP	POP	PGRT	EC50		4	d	4.079403		mg/L	81	65945
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.55		kg/ha	100	98113
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542

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 #
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.2		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.1		AI kg/ha	2	98542
Oxyfluorfen	Sesamum	orientale	Sesame	POP	POP	BMAS	NOAEL		na	hv	0.446		lb/acre	100	98117
Oxyfluorfen	Macrophomina	phaseolina	Fungi	POP	POP	ABND	LOAEL		25	d	0.446		lb/acre	100	98117
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.25		kg/ha	100	98115
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.25		kg/ha	100	98115
Oxyfluorfen	Scenedesmus	acutus	Green Algae	POP	POP	CHLO	IC50		1	d	0.015		mg/L	100	98120
Oxyfluorfen	NR	Fungi	Fungi Kingdom	POP	POP	ABND	NOAEL		46	d	0.128448		lb/acre	100	97948
Oxyfluorfen	NR	Fungi	Fungi Kingdom	POP	POP	ABND	NOAEL		20	d	0.892		lb/acre	100	98116
Oxyfluorfen	NR	Fungi	Fungi Kingdom	POP	POP	ABND	NOAEL		20	d	0.892		lb/acre	100	98116
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.000525		kg	0.35	98541
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL			hv	0.00035		kg	0.35	98541
Oxyfluorfen	Macrophomina	phaseolina	Fungi	POP	POP	CNTL	LOAEL		7	d	1000		ppm	100	98576

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 #
Oxyfluorfen	Macrophomina	phaseolina	Fungi	POP	POP	CNTL	LOAEL		7	d	1000		ppm	100	98576
Oxyfluorfen	NR	Fungi	Fungi Kingdom	POP	POP	ABND	LOAEL		7	d	2.38		ml/kg	100	98540
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL			hv	0.25		AI kg/ha	100	98119
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	ABND	LOAEL			hv	0.25		AI kg/ha	100	98119
Oxyfluorfen	Oryza	sativa	Rice	POP	POP	BMAS	NOAEL			hv	0.5		kg/ha	100	98543
Oxyfluorfen	Brassica	juncea	Brown mustard	POP	POP	BMAS	NOAEL		75	d	0.01784		lb/acre	100	40177
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	CNTL	LOAEL		75	d	0.01338		lb/acre	100	40177
Oxyfluorfen	NR	Nemata	Nematode phylum	POP	POP	CNTL	LOAEL		75	d	0.015		AI kg/ha	100	40177
Oxyfluorfen	NR	Magnoliophyta	Angiosperm division	POP	POP	CNTL	LOAEL			hv	0.5		kg/ha	100	98543
Oxyfluorfen	Nilaparvata	lugens	Brown Planthopper	POP	POP	ABND	NOAEL		~25	d	72		ai g/ha	24	98462
Oxyfluorfen	Chlamydomonas	eugametos	Green algae	POP	POP	BMAS	LOAEL		0.0625	d	1E-09		M	100	68778
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		NA	hv	0.01338		lb/acre	100	73788
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		NA	hv	0.01338		lb/acre	100	73788
Oxyfluorfen	NR	Plantae	Plant kingdom	POP	POP	ABND	LOAEL		NA	hv	0.01338		lb/acre	100	73788
Oxyfluorfen	Meloidogyne	incognita	Root-knot nematode	POP	POP	PGRT	LOAEL		NA	hv	0.015		AI kg/ha	100	73788
Oxyfluorfen	Pseudokirchneriella	subcapitata	Green algae	POP	POP	ABND	EC50		3	d	0.00008(0.00004 TO 0.0001)		mg/L	100	98204
Oxyfluorfen	Pseudokirchneriella	subcapitata	Green algae	POP	POP	ABND	NOEC		3	d	0.00002		mg/L	100	98204
Oxyfluorfen	Scenedesmus	acutus	Green Algae	POP	POP	PGRT	LOAEL		1	d	0.0075		mg/L	100	71697

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 #
Oxyfluorfen	Dactylaria	higginsii	Fungus	REP	REP	GERM	LOAEL		1.041667	d	12.5		ml/eu	100	88572
Oxyfluorfen	Sesamum	orientale	Sesame	REP	REP	GERM	NOAEL		20	d	0.446		lb/acre	100	98117
Oxyfluorfen	Linum	usitatissimum	Flax	REP	REP	GERM	NOAEL		3	d	100		ppm	100	98116

Papers that Were Accepted for ECOTOX

Acceptable for ECOTOX and OPP

1. Ahmad, M. and Vyas, S. C. (1997). Control of Dry Rot and Leaf Blight of Sesame by Herbicides. *J.Mycol.Plant Pathol.* 27: 222-224.

   EcoReference No.: 98117
   Chemical of Concern: ACF,BT,TBC,ODZ,OXF; Habitat: T; Effect Codes: REP,POP,MOR; Rejection Code: LITE EVAL CODED(OXF).

2. Ahmed, M. and Vyas, S. C. (1997). Effect of Herbicides on Soil- and Seed-Borne Nature of Fungi. *J.Mycol.Plant Pathol.* 27: 191-194.

   EcoReference No.: 98116
   Chemical of Concern: OXF,ODZ,TBC,BT,ACF; Habitat: T; Effect Codes: REP,POP; Rejection Code: LITE EVAL CODED(OXF).

3. Ahuja, S. and Sandhu, K. S. (2003). Efficiency of Weed Control in Cabbage-Onion Relay Cropping System. *Ann.Biol.* 19: 31-34.

   EcoReference No.: 81983
   Chemical of Concern: PDM,OXF,MBZ,TFN,LNR,GYP; Habitat: T; Effect Codes: POP,ACC; Rejection Code: TARGET(LNR,GYP,OXF).

4. Ahuja, S. and Sandhu, K. S. (2003). Weed Management Through the Use of Herbicides in Cabbage-Onion Relay Cropping System. *Ann.Biol.* 19: 27-30.

   EcoReference No.: 81982
   Chemical of Concern: PDM,OXF,MBZ,TFN,LNR,GYP; Habitat: T; Effect Codes: POP,ACC; Rejection Code: TARGET(LNR,GYP,OXF).

5. Al-Khatib, K., Libbey, C., and Kadir, S. (1995). Broadleaf Weed Control and Cabbage Seed Yield Following Herbicide Application. *Hortscience* 30: 1211-1214.

   EcoReference No.: 73418
   Chemical of Concern: MTL,TFN,PDM,OXF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

6. Angiras, N. N. and Sharma, V. K. (1998). Effect of Seed Rates, Interculture and Weed-Control Methods to Manage Weeds in Direct-Seeded Upland Rice (Oryza sativa). *Indian J.Agron.* 43: 431-436.

   EcoReference No.: 98133
   Chemical of Concern: OXF,BTC,PDM; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(OXF,PDM).

7. Bandyopadhyay, P., Mandal, B. B., and Jana, P. K. (1991). Effect of Some Pre- and Post-Emergence Herbicides and Their Combinations on Soil Micro-Flora in Wheat Field. *Environ.Ecol.* 9: 262-265.

   EcoReference No.: 97948
   Chemical of Concern: OXF,24D; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF).

8. Bhargava, J. N., Sharma, J. P., and Sharma, Y. P. (1987). Effect of Herbicides on the Nutrient Uptake by July Elberta Peach Trees. *Prog.Hortic.* 19: 227-230 .

EcoReference No.: 80887
Chemical of Concern: ATZ,Du,OXF; Habitat: T; Effect Codes: BCM,CEL,PHY; Rejection Code: TARGET(ATZ,OXF).

9. Bhattacharya, S. P., Mandal, M., Mukherjee, P. K., and Banerjee, S. (2001). Bioefficacy of Some Herbicides on Transplanted Rice Culture. *Environ.Ecol.* 19: 500-503.

EcoReference No.: 98108
Chemical of Concern: BTC,CRM,OXF; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(OXF).

10. Bowman, J. E., Sinclair, J. B., and Wax, L. M. (1987). Effect of Herbicides on Soybean Seed Quality. *Fitopatol.Bras.* 12: 334-337.

EcoReference No.: 73339
Chemical of Concern: MTL,ACR,MBZ,OXF,PDM,TFN; Habitat: T; Effect Codes: POP,REP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

11. Burnet, M. W. M., Hildebrand, O. B., Holtum, J. A. M., and Powles, S. B. (1991). Amitrole, Triazine, Substituted Urea, and Metribuzin Resistance in a Biotype of Rigid Ryegrass (Lolium rigidum). *Weed Sci.* 39: 317-323.

EcoReference No.: 70098
Chemical of Concern:
SZ,ATZ,MBZ,DMM,SXD,PPZ,AMTL,CZE,PRO,AMTR,DU,FMU,MTZ,CSF,GYP,OXF; Habitat: T; Effect Codes: MOR,PHY; Rejection Code: LITE EVAL CODED(PPZ),OK(ALL CHEMS),TARGET(PRO,SZ,SXD,ATZ,GYP,OXF).

12. Calkins, J. B., Swanson, B. T., and Newman, D. L. (1996). Weed Control Strategies for Field Grown Herbaceous Perennials. *J.Environ.Hortic.* 14: 221-227.

EcoReference No.: 73736
Chemical of Concern: MTL,ODZ,OXF,PDM,OYZ,FZF,SXD; Habitat: T; Effect Codes: POP,MOR; Rejection Code: LITE EVAL CODED(MTL),TARGET(SXD,OYZ,OXF).

13. Catanzaro, C. J., Skroch, W. A., and Henry, P. H. (1993). Rooting Performance of Hardwood Stem Cuttings from Herbicide-Treated Nursery Stock Plants. *J.Environ.Hortic.* 11: 128-130.

EcoReference No.: 73737
Chemical of Concern: MTL,NPP,PQT,PDM,OYZ,TFN,OXF,ODZ; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(OYZ,MTL,OXF).

14. Caviness, D. M., Talbert, R. E., and Klingaman, G. L. (1988). Chemigation and Spray Application of Herbicides on Container-Grown Ornamentals. *Weed Technol.* 2: 418-422.

EcoReference No.: 73995
Chemical of Concern: MTL,OYZ,NPP,ODZ,OXF; Habitat: T; Effect Codes: GRO,POP; Rejection Code: TARGET(OYZ,OXF,MTL).

15. Chandran, R. S., Singh, M., and Salihu, S. (1999). Thiazopyr Stimulates Hairy Beggarticks (Bidens pilosa) Germination. *Weed Technol.* 13: 576-580.

EcoReference No.: 98289

Chemical of Concern: TPZ,OXF; Habitat: T; Effect Codes: GRO,POP,PHY,REP; Rejection Code: TARGET(OXF).

16. Choi, J. S., Lee, H. J., Hwang, I. T., Pyon, J. Y., and Cho, K. Y. (1999). Differential Susceptibilities of Wheat and Barley to Diphenyl Ether Herbicide Oxyfluorfen. *Pestic.Biochem.Physiol.* 65: 62-72.

    EcoReference No.: 72773
    Chemical of Concern: OXF; Habitat: T; Effect Codes: BCM; Rejection Code: TARGET(OXF).

17. Clay, D. V. and Lawrie, J. (1987). The Effect of Foliar and Soil-Active Herbicides on Blackcurrants. *Proc.Br.Crop Prot.Conf.Weeds* 2: 641-648.

    EcoReference No.: 72635
    Chemical of Concern: SZ,OXF,PDM,NPP; Habitat: T; Effect Codes: GRO,REP; Rejection Code: TARGET(SZ,OXF).

18. Cleave, K. (1984). The Evaluation of Oxyfluorfen on Fruit Crops in S.E. England. *Asp App Biol* 8: 113-122.

    EcoReference No.: 31463
    Chemical of Concern: OXF; Habitat: T; Rejection Code: TARGET(OXF).

19. Coffman, C. B., Frank, J. R., and Gentner, W. A. (1984). Sethoxydim (Poast) and Oxyfluorfen (Goal) Efficacy and Tolerance by Landscape Plants. *J Envir Hor* 2: 120-122.

    EcoReference No.: 31528
    Chemical of Concern: OXF,SXD; Habitat: T; Rejection Code: TARGET(SXD,OXF).

20. Creager, R. A. (1982). Evaluation of Oxadiazon and Oxyfluorfen for Weed Control in Container-Grown Ornamentals. *Hortscience* 17: 40-42.

    EcoReference No.: 41330
    Chemical of Concern: OXF; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(OXF).

21. Das, N., Pattnaik, A. K., Senapati, A. K., and Dash, D. K. (1997). Management of Rhizosphere Nematode Population by Different Weed Control Practices in Mustard (Brassica juncea L.). *Environ.Ecol.* 15: 154-156.

    EcoReference No.: 40177
    Chemical of Concern: MTL,ACR,PDM,TBC,OXF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,MTL),OK(ACR,PDM,TBC).

22. Das, N., Ray, S., Jena, S. N., and Mohanty, P. K. (1998). Effect of Certain Herbicides on Weeds and Population of Root-Knot Nematode (Meloidogyne incognita) in Mustard. *Crop Res.(Hisar)* 16: 156-158.

    EcoReference No.: 73788
    Chemical of Concern: PDM,MTL,TBC,ACR,ANL,OXF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL,OXF).

23. Davies, F. T. Jr. and Duray, S. A. (1992). Effect of Preemergent Herbicide Application on Rooting and Subsequent Liner Growth of Selected Nursery Crops. *J.Environ.Hortic.* 10: 181-186.

    EcoReference No.: 73529
    Chemical of Concern: MTL,OXF; Habitat: T; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

24. Davis, G. and Minton, R. (1982). Herbicide Efficacy and Phytotoxicity of Thirteen Selections from Euonymus, Juniperus, Taxus, Thuja, Viburnum, Magnolia, and Ilex. *Proc.SNA Res.Conf.* 27: 272-277.

EcoReference No.: 72443
Chemical of Concern: OXF,SZ,MTL,NPP; Habitat: T; Effect Codes: MOR,POP; Rejection Code: NO ENDPOINT,MIXTURE(SZ),TARGET(MTL,OXF).

25. Debnath, A., Das, A. C., and Mukherjee, D. (2002). Rhizosphere Effect of Herbicides on Nitrogen Fixing Bacteria in Relation to Availability of Nitrogen in Rice Soil. *J.Indian Soc.Soil Sci.* 50: 463-466.

EcoReference No.: 98657
Chemical of Concern: ODZ,BTC,OXF; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(OXF).

26. DeFrank, J. and Easton-Smith, V. A. (1990). Evaluation of Pre-emergence Herbicides on Four Proteaceous Species. *Trop.Agric.* 67: 360-362.

EcoReference No.: 70279
Chemical of Concern: OXF,OYZ; Habitat: T; Effect Codes: POP,GRO; Rejection Code: NO COC(SZ),TARGET(OYZ,OXF).

27. Ensminger, M. P. and Hess, F. D. (1985). Photosynthesis Involvement in the Mechanism of Action of Diphenyl Ether Herbicides. *Plant Physiol.(Bethesda)* 78: 46-50.

EcoReference No.: 68778
Chemical of Concern: DU,PAQT,ACF,OXF; Habitat: AT; Effect Codes: BCM,PHY,MOR; Rejection Code: LITE EVAL CODED(OXF),OK(DU).

28. Fadayomi, O. and Warren, G. F. (1977). Uptake and Translocation of Nitrofen and Oxyfluorfen. *Weed Sci.* 25: 111-114.

EcoReference No.: 43306
Chemical of Concern: OXF; Habitat: T; Effect Codes: GRO,PHY; Rejection Code: TARGET(OXF).

29. Falk, J. S., Shoup, D. E., Al-Khatib, K., and Peterson, D. E. (2006). Protox-Resistant Common Waterhemp (Amaranthus rudis) Response to Herbicides Applied to Different Growth Stages. *Weed Sci.* 54: 793-799.

Chemical of Concern: OXF; Habitat: T; Rejection Code: TARGET(OXF).

30. Fausey, J. C. (2003). Controlling Liverwort and Moss Now and in the Future. *Horttechnology* 13: 35-38.

EcoReference No.: 76327
Chemical of Concern: CIN,ACAC,NHCl,Captan,CTN,CuS,OXF,FMX,PRM; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CuS,Captan,CTN),OK(ALL CHEMS),TARGET(OXF).

31. Felix, H. R., Chollet, R., and Harr, J. (1988). Use of the Cell Wall-Less Alga Dunaliella bioculata in Herbicide Screening Tests. *Ann.Appl.Biol.* 113: 55-60.

EcoReference No.: 13100
Chemical of Concern: 24DXY,ACR,ATZ,DBN,DU,GYP,NFZ,OXF,OYZ,TFN,SXD,ASM,AMTL,PAQT,NFZ,EPTC,FZFB, ACF,CSF; Habitat: A; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(OXF,EPTC,OYZ),NO ENDPOINT(GYP).

32. Frans, R., McClelland, M., Jordan, D., and Carey, F. (1991). Herbicide Trials on Field Crops 1990. *Ark.Agric.Exp.Stn.Res.Ser.* 1-88.

EcoReference No.: 73743
Chemical of Concern: ACF,CLT,CMZ,CZE,FZF,FMU,FSF,HFP,IMQ,IZT,LCF,MTZ,MBZ,DMM,MSMA,BMN,BT,DMB,24DXY,ATZ,ACR,PDM,DU,OXF,LNR,PMT,MTL,PAQT,NSF,NFZ,PYD,SXD,THFM,TFN,24DB; Habitat: T; Effect Codes: POP,PHY; Rejection Code: TARGET(SXD,DMB,ATZ,24DXY,LCF,CMZ,FSF,LNR,MTL,OXF).

33. Frans, R., McClelland, M., Smith, C., and Jordan, D. (1993). Herbicide Trials on Field Crops, 1992. *Ark.Agric.Exp.Stn.Res.Ser.* 427 Univ AR: 1-63.

EcoReference No.: 73962
Chemical of Concern: PYD,PMT,PMD,PAQT,OXF,NFZ,MTL,CMZ,SYD,TFN,24DXY,24BF,QZF,ACF,CZE,ACR,DU,ATZ,FZFP,BT,,BMN,FMU,CRM,FSF,CLT,IMQ,IZT,LCF,FNP,MTZ,MBZ,MSMA,NSF; Habitat: T; Effect Codes: POP,PHY; Rejection Code: NO MIXTURE(MR,FSF),LITE EVAL CODED(FNP),OK(24DXY),TARGET(OXF),NO COC(LNR).

34. Geoffroy, L., Couderchet, M., and Vernet, G. (2000). Catalase Activity of Scenedesmus obliquus as a Biomarker of Environmental Pollution by Herbicides and Copper. *Med.Fac.Landbouww.Univ.Gent.* 65: 843-852.

EcoReference No.: 98120
Chemical of Concern: CuS,DU,OXF; Habitat: A; Effect Codes: POP,BCM; Rejection Code: LITE EVAL CODED(OXF),OK(DU,CuS).

35. Geoffroy, L., Dewez, D., Vernet, G., and Popovic, R. (2003). Oxyfluorfen Toxic Effect on S. obliquus Evaluated by Different Photosynthetic and Enzymatic Biomarkers. *Arch.Environ.Contam.Toxicol.* 45: 445-452.

EcoReference No.: 71697
Chemical of Concern: OXF; Habitat: A; Effect Codes: POP,BCM; Rejection Code: LITE EVAL CODED(OXF).

36. Gilreath, J. P. (1987). Chemical Weed Control in Gypsophila. *Hortscience* 22: 446-448.

EcoReference No.: 73266
Chemical of Concern: MTL,TBC,ACR,OXF,OYZ; Habitat: T; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OYZ,OXF).

37. Gogoi, A. K. (1998). Weed Control in Late-Transplanted, Lowland Rice (Oryza sativa). *Indian J.Agron.* 43: 298-301.

EcoReference No.: 98132
Chemical of Concern: OXF,TBC,BTC; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(OXF,TBC,BTC).

38. Gora, D. R., Meena, N. L., Shivran, P. L., and Shivran, D. R. (1996). Dry-Matter Accumulation and Nitrogen Uptake in Cumin (Cuminum cyminum) as Affected by Weed Control and Time of N Application . *Indian J.Agron.* 41: 666-667.

EcoReference No.: 73973
Chemical of Concern: MTL,OXF; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

39. Harrison, H. F. and Peterson, J. K. (1999). Effect of Temperature and Cultivar on the Response of Broccoli and Collard (Brassica oleracea) to Oxyfluorfen. *Weed Technol.* 13: 726-730.

EcoReference No.: 63025
Chemical of Concern: OXF; Habitat: T; Effect Codes: PHY,POP; Rejection Code: TARGET(OXF).

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Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(OXF).

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Chemical of Concern: OXF; Habitat: T; Effect Codes: MOR,BCM,GRO; Rejection Code: LITE EVAL CODED(OXF).

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Chemical of Concern: OXF,PDM,TBC; Habitat: T; Effect Codes: GRO; Rejection Code: TARGET(OXF,PDM,TBC).

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Chemical of Concern: OXF,BTC,TBC; Habitat: A; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(OXF).

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Chemical of Concern: FZF,OXF,ODZ,FSF; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: LITE EVAL CODED(FSF,OXF).

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Chemical of Concern: DFP,QZF,FNP,HFP,FZF,NSF,TN,EMSF,BP,ANL,PDM,BTC,MLT,AMTR,PMT,DU,PAQT,FXP,QNC,ATZ,SZ,MCPA,GYP,OXF; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,GYP,FNP,ATZ,MLT,SZ).

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Chemical of Concern: DFP,FZF,QZP,HFP,FNP,MLT,BP,TN,EMSF,NSF,BTC,PAQT,AMTR,DU,ANL,MCPA,FXP,QNC,OXF,GYP,SZ,ATZ; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,GYP,FNP,ATZ,MLT,SZ).

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Chemical of Concern:
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Chemical of Concern: MTL,ACR,OXF,PMD; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

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Chemical of Concern: OXF,ACF,FSF,LCF; Habitat: T; Effect Codes: GRO,PHY; Rejection Code: TARGET(FSF,OXF,LCF).

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Chemical of Concern: MTL,OXF,ACR,MBZ,DMM,ODZ; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: TARGET(MTL,OXF)).

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Chemical of Concern: PNB,CLNB,CBX,FTL,OXF,PMT,TCM,PDM,FSF; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(CLNB),OK(ALL CHEMS),TARGET(OXF).

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Chemical of Concern: MTL,TFN,OXF,PDM,DU; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT,TARGET(MTL),TARGET(OXF).

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EcoReference No.: 73988
Chemical of Concern: MTL,OXF,PDM,TFN,DU,MBZ,DMM,TBC; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE,TARGET(MTL),TARGET(OXF).

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Chemical of Concern: MTL,OXF,PDM; Habitat: T; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

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EcoReference No.: 73800
Chemical of Concern: MTL,PDM,ANL,BTC,OXF,TBC,ACR; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

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Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(OXF).

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Chemical of Concern: BTC,PDM,OXF; Habitat: AT; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(OXF,PDM).

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EcoReference No.: 98124
Chemical of Concern: ODZ,OXF,PDM,TBC,BTC; Habitat: T; Effect Codes: GRO,POP,BCM,MOR; Rejection Code: TARGET(OXF).

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EcoReference No.: 80528
Chemical of Concern: ACR,ATZ,OXF,PDM,GYP; Habitat: T; Effect Codes: GRO,BCM,POP; Rejection Code: TARGET(ATZ,GYP,OXF).

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Chemical of Concern: PDM,BTC,TBC,NaDPA,OXF; Habitat: T; Effect Codes: POP,GRO; Rejection Code: TARGET(OXF),NO MIXTURE(NaDPA).

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Chemical of Concern: ODZ,OXF,IPPA,UREA,PPN,NaBT; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF),OK(IPPA,PPN).

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Chemical of Concern: ATZ,OXF,PDM,CuS,Zn,Cr; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,ATZ,CuS).

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Chemical of Concern: MTL,TFN,PDM,EFL,FZF,SXD,PCH,ATZ,CPR,DCPA,NPP,24DXY,DMB,OXF,24DB,EPTC,OYZ,DU,MBZ,DMM,OXF,BMN; Habitat: T; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(SXD,DMB,ATZ,24DXY,OYZ,OXF,EPTC).

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Chemical of Concern: MTL,ANL,PDM,BTC,GYP,OXF; Habitat: T; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(MTL),TARGET(GYP,OXF).

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EcoReference No.: 73971
Chemical of Concern: MTL,ATZ,ANL,PDM,BTC,GYP,OXF,ACR; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),OK(ALL CHEMS),TARGET(ATZ,OXF).

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Chemical of Concern: OYZ,ODZ,OXF,PDM,MTL; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(MTL,TARGET-MTL),TARGET(OYZ,OXF).

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Chemical of Concern: OXF,BTC; Habitat: T; Effect Codes: GRO,POP; Rejection Code: TARGET(OXF).

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Chemical of Concern: PDM,BTC,ANL,TBC,OXF,24DXYEE; Habitat: A; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(OXF,PDM),OK(24DXYEE).

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Chemical of Concern: MTL,TFN,DIATZ,PZM,PPX,OXF,MLX,ATZ,SZ,TBZ,ODZ,PDM,FNT; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,ATZ),OK(DIATZ,SZ,TFN,MTL,PZM).

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Chemical of Concern: SCA,OXF,PMT,NFZ,MTL,FMX,DCS,IZT,CRM,PRT,ADC,ACP,IAZ; Habitat: T; Effect Codes: PHY,GRO,POP,BCM; Rejection Code: LITE EVAL CODED(ACP,ADC,SCA),OK(PRT),TARGET(MTL,NFZ,OXF).

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EcoReference No.: 73954
Chemical of Concern: MTL,DU,BTC,ACR,PMD,OXF; Habitat: T; Effect Codes: BCM,POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

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EcoReference No.: 98540
Chemical of Concern: OXF,BTC,24D; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF),OK(24D).

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Chemical of Concern: OXF,ACR,DU; Habitat: T; Effect Codes: GRO,POP,PHY; Rejection Code: TARGET(OXF).

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Chemical of Concern: OXF,ACR; Habitat: T; Effect Codes: GRO,POP; Rejection Code: TARGET(OXF).

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Chemical of Concern: MTL,OXF,EFL,PDM,SXD; Habitat: T; Effect Codes: GRO,BCM,PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(SXD,OXF).

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Chemical of Concern: MTL,OXF,PDM; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

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Chemical of Concern: OXF,NPP; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(OXF).

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Chemical of Concern: OXF; Habitat: T; Rejection Code: TARGET(OXF).

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Chemical of Concern: OXF,TBC,BTC,PDM; Habitat: T; Effect Codes: BCM,POP; Rejection Code: LITE EVAL CODED(OXF).

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EcoReference No.: 73744
Chemical of Concern:
HXZ,GYP,OXF,ACF,OYZ,SZ,CYC,PHMD,DEE,MBZ,DMM,ACR,BS,NPM,NPP,EFL,FZP,IMQ,CMZ,IZT,FZFPB,MTL,SXD,FSF,EPTC,TFN,BT,PAQT,TRB; Habitat: T; Effect Codes: POP; Rejection Code: NO MIXTURE(SXD,PHMD),OK(ALL CHEMS),TARGET(CMZ,OYZ,FSF,HXZ,MYL,SZ,BS,GYP,OXF,EPTC).

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EcoReference No.: 73915
Chemical of Concern:
ACF,ACR,ATZ,TFN,BFL,BT,BMN,CRM,CLT,CMZ,CZE,DMB,DU,FNP,FZFP,FSF,HFP,IMQ,IZT,LCF,LNR,MTZ,MTL,MBZ,NFZ,MSMA,OXF,PAQT,PDM,PMS,PMT,PYD,QZF,SXD,24DXY,24DB,DMM; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(DMB,ATZ,24DXY,LCF,FSF,LNR,OXF),MIXTURE(FNP).

100. Talbert, R. E., Tierney, M. J., Burgos, N. R., Strebe, T. A., Curless, J. K., and Miesner, J. (1996). Field Evaluations of Herbicides on Small Fruit Vegetable and Ornamental Crops 1995.

Ark.Agric.Exp.Stn.Res.Ser. 452: 1-38.

EcoReference No.: 73745
Chemical of Concern:
MTL,MBZ,DMM,BT,24DXY,EPTC,GYP,OYZ,DU,TPZ,OXF,ACF,TFN,CYC,CMZ,FTS,FZF,IZT,FSF,CPR,DCPA,HSF,PRM,SXD,CPP,NPP,DDP,ACO,GFSNH,PAQT,PHMD; Habitat: T; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(SXD,PHMD),TARGET(MTL,24DXY,CMZ,OYZ,FSF,GYP,OXF,EPTC).

101. Talbert, R. E., Tierney, M. J., Carey III, V. F., and Kitt, M. J. (1994). Field Evaluations of Herbicides on Small Fruit, Vegetable and Ornamental Crops, 1993. *Ark.Agric.Exp.Stn.Res.Ser*. 440: 1-60.

EcoReference No.: 73236
Chemical of Concern: PDM,MTL,TFN,TBC,OXF,EFL,24DXY,ATZ,NPP,GYP,BT,MBZ,SXD,DMB; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(MTL,PHMD),NO MIXTURE(SXD),OK(ALL CHEMS),TARGET(DMB,PYZ,ATZ,GYP,OXF).

102. Talbert, R. E., Wichert, R. A., Carey III, V. F., Johnson, D. H., Ruff, D. F., and Burgos, N. R. (1993). Field Evaluations of Herbicides on Small Fruit, Vegetable and Ornamental Crops, 1992 . *Ark.Agric.Exp.Stn.Res.Ser.* 429: 1-29.

EcoReference No.: 70441
Chemical of Concern: ATZ,NPP,MTL,PQT,OXF,DU,PDM,BT,TFN,24DXY,OYZ,SZ; Habitat: T; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(MTL),OK(ALL CHEMS),TARGET(24DXY,OYZ,ATZ,SZ,OXF).

103. Teasdale, J. R. (1985). Avoidance of Herbicide Injury by Placement Between Rows of Polyethylene Mulch. *Hortscience* 20: 871-872.

EcoReference No.: 73264
Chemical of Concern: MTL,ACR,OYZ,LNR,OXF,ATZ,MBZ,PQT; Habitat: T; Effect Codes: GRO,POP,PHY; Rejection Code: LITE EVAL CODED(MTL),TARGET(MTL,ATZ,OYZ,LNR,OXF).

104. Teasdale, J. R. (1984). Pretransplant Oxyfluorfen for Cabbage. *Proc.Northeast.Weed Sci.Soc.* 38: 101-105.

EcoReference No.: 31715
Chemical of Concern: OXF,LNR,MBZ,DMM,BT; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(LNR,OXF).

105. Tewari, A. N., Rathi, K. S., and Singh, B. (1998). Integrated Weed Management in Garlic (Allium sativum). *Indian J.Agric.Sci.* 68: 281-283.

EcoReference No.: 73841
Chemical of Concern: OXF,MTL,PDM; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

106. Thakare, P. D., Patil, B. M., Kakade, S. U., and Karunakar, A. P. (1998). Effect of Chemical Weed Control on Growth and Yield of Soybean. *PKV Res.J.* 22: 205-206.

EcoReference No.: 73758
Chemical of Concern: MTL,OXF,MBZ,PDM,ODZ; Habitat: T; Effect Codes: GRO,POP; Rejection Code: TARGET(MTL,OXF).

107. Thro, A. M., Wier, A. T., and Barker, F. G. (1990). Weed Potential of the Forage Legume

Aeschynomene (Aeschynomene americana) in Rice (Oryza sativa) and Soybeans (Glycine max). *Weed Technol.* 4: 284-290.

EcoReference No.: 94593
Chemical of Concern: BT,OXF,LNR,CRME,IMQ,24D,ACF,FSF,LCF; Habitat: T; Effect Codes: PHY,POP; Rejection Code: TARGET(OXF,LNR,24D,FSF,LCF).

108. Tiwari, J. P. and Kurchania, S. P. (1993). Chemical Control of Weeds in Indian Mustard (Brassica juncea). *Indian J.Agric.Sci.* 63: 272-275.

EcoReference No.: 73258
Chemical of Concern: MTL,PDM,OXF,BTC; Habitat: T; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(MTL),TARGET(OXF).

109. Tripathi, S. K. and Vyas, S. C. (1986). Uptake and Translocation of Herbicides by Soybean Seedlings in Relation to Fungitoxicity. *Indian J.Plant Sci.* 4: 1-4.

EcoReference No.: 98576
Chemical of Concern: MBZ,TBC,OXF; Habitat: T; Effect Codes: GRO,ACC,POP; Rejection Code: LITE EVAL CODED(OXF).

110. Vanstone, D. E. and Stobbe, E. H. (1978). Root Uptake, Translocation, and Metabolism of Nitrofluorfen and Oxyfluorfen by Fababeans (Vicia Faba) and Green Foxtail (Setaria Viridis). *Weed Sci.* 26: 389-392.

EcoReference No.: 29593
Chemical of Concern: OXF; Habitat: T; Rejection Code: TARGET(OXF).

111. Verma, O. P. S., Katyal, S. K., and Bhan, V. M. (1987). Studies on Relative Efficiency of Promising Herbicides in Transplanted Rice. *Indian J.Agron.* 32: 374-377.

EcoReference No.: 98121
Chemical of Concern: OXF,BTC,ODZ,TBC,PDM; Habitat: T; Effect Codes: POP,GRO; Rejection Code: TARGET(OXF).

112. Walia, U. S., Brar, L. S., and Gill, H. S. (1992). Efficacy of Herbicides Against Grassy Weeds in Transplanted Rice. *J.Res.Punjab Agric.Univ.* 29: 321-326 .

EcoReference No.: 98543
Chemical of Concern: BSF,FXP,OXF,ANL,TBC,BTC; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(OXF).

113. Warren, S. L. and Skroch, W. A. (1991). Evaluation of Six Herbicides for Potential Use in Tree Seed Beds. *J.Environ.Hortic.* 9: 160-163.

EcoReference No.: 73249
Chemical of Concern: MTL,OYZ,NPP,OXF; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(MTL),TARGET(OYZ,OXF).

114. Whitwell, T. and Kelly, J. (1989). Effects of Preemergence Herbicides on Hosta and Daylily. *J.Environ.Hortic.* 7: 29-31.

EcoReference No.: 73254
Chemical of Concern: MTL,OXF,TFN,OYZ,PDM,NPP,FTN; Habitat: T; Effect Codes: PHY,GRO; Rejection Code: LITE EVAL CODED(FTN,MTL),OK(ALL CHEMS),TARGET(OYZ,OXF).

115. Wu, J. C., Xu, J. X., Liu, J. L., Yuan, S. Z., Cheng, J. A., and Heong, K. L. (2001). Effects of Herbicides on Rice Resistance and on Multiplication and Feeding of Brown Planthopper (BPH), Nilaparvata lugens (Stal) (Homoptera: Delphacidae). *Int.J.Pest Manag.* 47: 153-159.

EcoReference No.: 98462
Chemical of Concern: MTL,ODZ,QNC,BSFM,ACO,OXF,BTC; Habitat: T; Effect Codes: PHY,MOR,BEH,POP; Rejection Code: LITE EVAL CODED(OXF),OK(QNC,MTL).

116. Wyss, G. S., Charudattan, R., Rosskopf, E. N., and Littell, R. C. (2004). Effects of Selected Pesticides and Adjuvants on Germination and Vegetative Growth of Phomopsis amaranthicola, a Biocontrol Agent for Amaranthus spp. *Weed Res.* 44: 469-482.

EcoReference No.: 96666
Chemical of Concern: DCF,EPTC,OXF,PAQT,CLT,TFN,NPM,PDM,AMTR,PRM,NPP,MBZ,IZT,IPD,VCZ,BMY,DMT,MLN,CYR,LNR,DU,BS,GYPI,MTL,SXD,DCPA,IZP,SZ,ATZ,Maneb,MZB,CuOH,CTN,FSTL; Habitat: T; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(LNR,GYPI,OXF,EPTC),OK(ATZ,SZ,IZP,DCPA,SXD,MTL,BS,DU,CYR,MLN,DMT),TARGET(FSTL,CTN,CuOH,MZB,Maneb).

117. Yandoc, C. B., Rosskopf, E. N., Pitelli, R. L. C. M., and Charudattan, R. (2006). Effect of Selected Pesticides on Conidial Germination and Mycelial Growth of Dactylaria higginsii, a Potential Bioherbicide for Purple Nutsedge (Cyperus rotundus). *Weed Technol.* 20: 255-260.

EcoReference No.: 88572
Chemical of Concern: CYR,DCF,SXD,IZP,FSTAl,CuOH,MLX,TPM,DU,GYP,OXF; Habitat: T; Effect Codes: GRO,REP; Rejection Code: LITE EVAL CODED(IZP,GYP,OXF),TARGET(CYR,CuOH,FSTAL),OK(SXD).

Acceptable for ECOTOX but not OPP

1. Adler, I. L., Jones, B. M., and Wargo, J. P. Jr. (1977). Fate of 2-Chloro-1-(3-Ethoxy-4-Nitrophenoxy)-4-(Trifluoromethyl)Benzene (Oxyfluorofen) in Rats. *J.Agric.Food Chem.* 25: 1339-1341.

   EcoReference No.: 97847
   Chemical of Concern: OXF; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT(OXF).

2. Boger, P. and Nicolaus, B. (1993). Ethane Formation by Peroxidizing Herbicides. *Target Assays Mod.Herbic.Relat.Phytotoxic Compd.* 51-60.

   EcoReference No.: 98528
   Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: NO COC(OXF).

3. Bohme, H., Kunert, K. J., and Boger, P. (1981). Sites of Herbicidal Action on Photosynthesis: A Fluorescence Assay Study. *Weed Sci.* 29: 371-375.

   EcoReference No.: 62034
   Chemical of Concern: DU,NFZ,OXF; Habitat: A; Effect Codes: GRO; Rejection Code: NO ENDPOINT(DU,NFZ,OXF).

4. Clay, D. V. and West, T. M. (1987). The Response of Traizine Resistant and Susceptible Biotypes of Erigeron canadensis to 23 Herbicides. *Meded.Fac.Landbouwkd.Rijksuniv.Gent* 52: 1195-1206.

   EcoReference No.: 70179
   Chemical of Concern:

SZ,PHMD,GYP,AMTL,24DXY,TPR,OYZ,CPR,PCH,DU,NPP,OXF,NFZ,ODZ,PDM,PAQT,PYD,IZP,FXP; Habitat: T; Effect Codes: PHY,GRO; Rejection Code: NO ENDPOINT(ALL CHEMS,TARGET-IZP,OYZ,GYP,OXF).

5. Couderchet, M., Schmalfuss, J., and Boger, P. (1998). A Specific and Sensitive Assay to Quantify the Herbicidal Activity of Chloroacetamides. *Pestic.Sci.* 52: 381-387.

EcoReference No.: 74055
Chemical of Concern: MTL,BTC,ACR,MBZ,DMM,24DXY,CPP,CSF,OXF,EPTC,ATC; Habitat: A; Effect Codes: GRO,BCM; Rejection Code: NO ENDPOINT(ALL CHEMS).

6. Ensminger, M. P. and Hess, F. D. (1985). Action Spectrum of the Activity of Acifluorfen-Methyl, a Diphenyl Ether Herbicide, in Chlamydomonas eugametos. *Plant Physiol.* 77: 503-505.

EcoReference No.: 97848
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM,MOR,POP; Rejection Code: NO ENDPOINT(OXF).

7. Frans, R., Corbin, B., Johnson, D., and McClelland, M. (1987). Herbicide Field Evaluation Trials on Field Crops, 1986. *Ark.Agric.Exp.Stn.,Res.Ser.354, Univ.of Ark, Fayetteville, AK* 92 p.

EcoReference No.: 31036
Chemical of Concern:
ACF,ACR,ATZ,BFL,BT,BMN,CRM,CLT,CZE,DMB,DU,EFL,FNP,FZF,PQT,FMU,FSF,HFP,IMQ,IZT,LCF,LNR,MTZ,MTL,NPM,NFZ,OXF,PDM,IMQ,PMT,QZF,TFN,24D,24DB,SXD; Habitat: T; Effect Codes: POP,PHY; Rejection Code: NO ENDPOINT(EFFICACY-ATZ,DMB,DU,FNP,FSF,LCF,LNR,MTL,OXF,24D,SXD).

8. Frans, R. E., McClelland, M., and Terhune, E. (1980). Herbicide Field Trials on Field Crops, 1979. *Mimeogr.Ser.280, Ark.Agric.Exp.Stn., Univ.of Arkansas, Fayetteville, AR* 66 p.

EcoReference No.: 96750
Chemical of Concern:
ACR,ACO,MFD,NPM,BMN,PQT,PMT,DU,CZE,TFN,PDM,NFZ,OYZ,FMU,MTL,BMN,BT,ACF,MTZ,GYP,LNR,VNT,BBZ,OXF,BTY,24D,DMB,PPZ,ATZ,PCH; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(EFFICACY-MFD,DU,NFZ,OYZ,MTL,GYP,LNR,OXF,24D,ATZ),TARGET(ACO).

9. Garber, N. and Cotty, P. J. (2006). Timing of Herbicide Applications may Influence Efficacy of Aflatoxin Biocontrol . *Proc.Beltwide Cotton Conf.:* 1-6.

EcoReference No.: 98217
Chemical of Concern: BMN,PMT,PDM,PAQT,OXF,DU,GYPI; Habitat: T; Effect Codes: REP,POP; Rejection Code: NO ENDPOINT(OXF,DU,GYPI,PDM).

10. Gorske, S. F. and Hopen, H. J. (1978). Effects of Two Diphenylether Herbicides on Common Purslane (Portulaca oleracea). *Weed Sci.* 26: 585-588.

EcoReference No.: 41490
Chemical of Concern: OXF; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(OXF).

11. Gorske, S. F. and Hopen, H. J. (1978). Selectivity of Nitrofen and Oxyfluorfen Between Portulaca oleracea Ecotypes and Two Cabbage (Brassica oleracea var. capitata) Cultivars. *Weed Sci.* 26: 640-642.

EcoReference No.: 43585

Chemical of Concern: OXF; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT(OXF).

12. Guh, J. O., Lee, E. K., Kuk, Y. I., and Park, R. D. (1996). Absorption, Translocation, and Metabolism of Oxyfluorfen in Rice (Oryza sativa) and Barnyard Grass (Echinochloa crus-galli). *Weed Res.* 40: 245-251.

    EcoReference No.: 98538
    Chemical of Concern: OXF; Habitat: T; Effect Codes: MOR,ACC; Rejection Code: NO CONTROL(OXF).

13. Ha, S. B., Lee, S. B., Lee, D. E., Guh, J. O., and Back, K. (2003). Transgenic Rice Plants Expressing Bacillus subtilis Protoporphyrinogen Oxidase Gene Show Low Herbicide Oxyfluorfen Resistance . *Biol.Plant.* 47: 277-280.

    EcoReference No.: 98378
    Chemical of Concern: OXF; Habitat: T; Effect Codes: GRO,CEL; Rejection Code: NO ENDPOINT(OXF).

14. Ha, S. B., Lee, S. B., Lee, Y., Yang, K., Lee, N., Jang, S. M., Chung, J. S., Jung, S., Kim, Y. S., Wi, S. G., and Back, K. (2003). The Plastidic Arabidopsis Protoporphyrinogen IX Oxidase Gene, with or Without the Transit Sequence, Confers Resistance to the Diphenyl Ether Herbicide in Rice. *Plant Cell Environ.* 27: 79-88.

    EcoReference No.: 98757
    Chemical of Concern: OXF; Habitat: T; Effect Codes: GRO,CEL,BCM,PHY; Rejection Code: NO ENDPOINT(OXF).

15. Hallahan, B. J., Camilleri, P., Smith, A., and Bowyer, J. R. (1992). Mode of Action Studies on a Chiral Diphenyl Ether Peroxidizing Herbicide. Correlation Between Differential Inhibition of Protoporphyrinogen IX Oxidase Activity and Induction of Tetrapyrrole Accumulation by the Enantiomers. *Plant Physiol.* 100: 1211-1216.

    EcoReference No.: 97960
    Chemical of Concern: OXF; Habitat: A; Effect Codes: POP,GRO,BCM; Rejection Code: NO ENDPOINT(OXF).

16. Hartnett, J. P. (1975). Weed Control in Soybeans with RH-2512 and RH-2915. *Proc.Northeast.Weed Sci.Soc.* 29: 4-8.

    EcoReference No.: 40632
    Chemical of Concern: OXF,DMM,ACR,LNR,MBZ,TFN; Habitat: T; Effect Codes: MOR,PHY,GRO; Rejection Code: NO ENDPOINT,NO CONTROL(OXF,LNR).

17. Hassanein, H. M. A., Banhawy, M. A., Soliman, F. M., Abdel-Rehim, S. A., Muller, W. E. G., and Schroder, H. C. (1999). Induction of Hsp70 by the Herbicide Oxyfluorfen (Goal) in the Egyptian Nile Fish, Oreochromis niloticus. *Arch.Environ.Contam.Toxicol.* 37: 78-84.

    EcoReference No.: 20696
    Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM,MOR; Rejection Code: NO ENDPOINT(OXF).

18. Hiraki, M., Matsunari, K., Fujita, T., and Wakabayashi, K. (2002). Mode of Action of Herbicidal N-Benzyl-4-Chloro-N-Isobutyl-2-Pentenamides. *J.Pestic.Sci.* 27: 272-274.

    EcoReference No.: 98668

Chemical of Concern: OXF; Habitat: A; Effect Codes: GRO,BCM,POP; Rejection Code: NO ENDPOINT(OXF).

19. Hirashima, A., Yoshii, Y., Kumamoto, K., Oyama, K., and Eto, M. (1990). Structure-Activity Studies of Insecticidal 2-Methoxy-1,3,2-Oxazaphospholidine 2-Sulfides Against Musca domestica and Tribolium castaneum. *J.Pestic.Sci.* 15: 539-551 .

    EcoReference No.: 98203
    Chemical of Concern: FNT,OXF; Habitat: T; Effect Codes: MOR; Rejection Code: NO COC(OXF),OK(FNT).

20. Ikeuchi, M., Yasuda, S., and Matsunaka, S. (1979). Mode of Action of Diphenylethers and Related Herbicides on Mosquito Larvae. *In: H.Geissbuehler (Ed.), Advances in Pesticide Science, Pergamon Press, Oxford England* 3: 470-474.

    EcoReference No.: 98282
    Chemical of Concern: OXF,ODZ; Habitat: AT; Effect Codes: MOR,GRO; Rejection Code: NO CONTROL(OXF).

21. Karlik, J. F., Becker, J. O., and Schuch, U. K. (2001). IPM for Field-Grown Rose Plants in California. *In: N.Zieslin and H.Aghania (Eds.), Proc.3rd Int.Symp.on Rose Research, Acta Hortic.:* 547: 97-102.

    EcoReference No.: 98214
    Chemical of Concern: MTAS,13DPE,MB,CH3I,OXF; Habitat: T; Effect Codes: POP; Rejection Code: NO COC(OXF),NO ENDPOINT(13DPE),TARGET(MTAS).

22. Kataoka, M., Sato, R., and Oshio, H. (1990). Isolation and Partial Characterization of Mutant Chlamydomonas reinhardtii Resistant to Herbicide S-23142. *J.Pestic.Sci.* 15: 449-451.

    EcoReference No.: 98412
    Chemical of Concern: OXF,PAQT,DU; Habitat: A; Effect Codes: POP,BCM; Rejection Code: NO ENDPOINT(OXF).

23. Kohno, H., Hirai, K., Hori, M., Sato, Y., Boger, P., and Wakabayashi, K. (1993). New Peroxidizing Herbicides: Activity Compared with X-Ray Structure. *Z.Naturforsch.* 48C: 334-338.

    EcoReference No.: 98190
    Chemical of Concern: OXF; Habitat: A; Effect Codes: POP,BCM; Rejection Code: NO ENDPOINT(OXF).

24. Kohno, H., Ogino, C., Iida, T., Takasuka, S., Sato, Y., Nicolaus, B., Boger, P., and Wakabayashi, K. (1995). Peroxidizing Phytotoxic Activity of Pyrazoles. *J.Pestic.Sci.* 20: 137-143.

    EcoReference No.: 98537
    Chemical of Concern: OXF; Habitat: A; Effect Codes: POP,CEL; Rejection Code: NO CONTROL(OXF).

25. Kojima, S., Matsumoto, H., and Ishizuka, K. (1991). Protoporphyrin IX Accumulation in Lemna paucicostata Hegelm. Caused by Diphenyl Ether Herbicides and Their Herbicidal Activity. *Weed Res.(Japan)* 36: 318-323.

    EcoReference No.: 98464
    Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(OXF).

26. Kuhns, L. J. and Haramaki, C. (1980). An Evaluation of 5 Herbicides Applied Over Liners Representing 8

Genera of Ornamental Plants. *Proc.Northeast.Weed Sci.Soc.* 34: 340-346.

EcoReference No.: 44036
Chemical of Concern: OXF,OYZ,ACR,BT; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(OXF,OYZ).

27. Kunert, K. J. and Boger, P. (1981). The Bleaching Effect of the Diphenyl Ether Oxyfluorfen. *Weed Sci.* 29: 169-173.

EcoReference No.: 98216
Chemical of Concern: PAQT,DU,OXF; Habitat: A; Effect Codes: BCM,POP,PHY; Rejection Code: NO ENDPOINT(OXF),NO MIXTURE(DU).

28. Lambert, R. and Boger, P. (1984). Peroxidative Activity of Oxyfluorfen with Regard to Carotenoids in Scenedesmus. *J.Agric.Food Chem.* 32: 523-526.

EcoReference No.: 97846
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(OXF).

29. Lambert, R., Sandmann, G., and Boger, P. (1987). Binding and Peroxidative Action of Oxyfluorfen in Sensitive and Tolerant Algal Species. *Z.Naturforsch.* 42C: 819-823.

EcoReference No.: 98220
Chemical of Concern: OXF; Habitat: A; Effect Codes: PHY,ACC,POP; Rejection Code: NO ENDPOINT(OXF).

30. Lee, Y., Jung, S., and Back, K. (2004). Expression of Human Protoporphyrinogen Oxidase in Transgenic Rice Induces both a Photodynamic Response and Oxyfluorfen Resistance. *Pestic.Biochem.Physiol.* 80: 65-74.

EcoReference No.: 98379
Chemical of Concern: OXF; Habitat: T; Effect Codes: CEL,PHY; Rejection Code: NO ENDPOINT(OXF).

31. Matsumoto, H., Kojima, S., and Ishizuka, K. (1990). Characteristics of Herbicidal Injury by Diphenyl Ether Herbicides Oxyfluorfen and Bifenox in Lemna pausicostata Hegelm. *Weed Res.(Japan)* 35: 36-43.

EcoReference No.: 98554
Chemical of Concern: OXF; Habitat: A; Effect Codes: PHY; Rejection Code: NO ENDPOINT(OXF).

32. Medina, H. S. G., Lopata, M. E., and Bacila, M. (1994). The Response of Sea Urchin Egg Embryogenesis Towards the Effect of Some Pesticides. *Arq.Biol.Tecnol.(Curitiba)* 37: 895-906.

EcoReference No.: 18579
Chemical of Concern: GYP,MP,OXF,DM,TFN; Habitat: A; Effect Codes: GRO; Rejection Code: NO ENDPOINT(MP),NO ENDPOINT,NO CONTROL(OXF,GYP).

33. Moorthy, B. T. S. and Manna, G. B. (1989). Weed Control in Puddle-Seeded Rice by Some Pre-Emergence Herbicides. *Sci.Cult.* 55: 215-216.

EcoReference No.: 98467
Chemical of Concern: PDM,TBC,OXF,24D; Habitat: T; Effect Codes: PHY,GRO,POP; Rejection Code: NO ENDPOINT(OXF,PDM,24D).

34. Nakamura, A., Ohori, Y., Watanabe, K., Sato, Y., Boger, P., and Wakabayashi, K. (2000). Peroxidative Formation of Lipid Hydroperoxides in Etiolated Leaves. *Pestic.Biochem.Physiol.* 66: 206-212.

EcoReference No.: 98377
Chemical of Concern: OXF; Habitat: AT; Effect Codes: BCM; Rejection Code: NO ENDPOINT(OXF).

35. O'Brien, M. C. and Prendeville, G. N. (1979). Effect of Herbicides on Cell Membrane Permeability in Lemna minor. *Weed Res.* 19: 331-334.

EcoReference No.: 6963
Chemical of Concern: SZ,24DXY,GYP,LNR,OXF,PMT,AMTL,NaN3; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(SZ,NaN3),NO ENDPOINT(OXF,GYP,LNR,24DXY).

36. Ogawa, H., Yamada, I., Arai, K., Hirase, K., Moriyasu, K., Schneider, C., Sandmann, G., Boger, P., and Wakabayashi, K. (2001). Mode of Bleaching Phytotoxicity of Herbicidal Diphenylpyrrolidinones. *Pest Manag.Sci.* 57: 33-40.

EcoReference No.: 60779
Chemical of Concern: NFZ,OXF; Habitat: AT; Effect Codes: BCM,PHY,GRO; Rejection Code: NO CONTROL(OXF,NFZ).

37. Ogino, C., Hoshi, T., Iida, T., Koura, S., Ogawa, H., Kohno, H., Sato, Y., Takai, M., and Wakabayashi, K. (1993). Peroxidizing Phytotoxic Activity of Thiadiazolidine and Triazolidine Compounds. *J.Pestic.Sci.* 18: 369-373.

EcoReference No.: 98529
Chemical of Concern: OXF; Habitat: A; Effect Codes: PHY,BCM,GRO; Rejection Code: NO CONTROL(OXF).

38. Parker, C. and Dean, M. L. (1976). Control of Wild Rice in Rice. *Pestic.Sci.* 7: 403-416.

EcoReference No.: 98533
Chemical of Concern: EPTC,LNR,MTZ,MBZ,OYZ,PPN,ACR,BTC,MTL,EFS,MLT,ODZ,PSM,PPN,DFQ,OXF; Habitat: T; Effect Codes: GRO; Rejection Code: NO ENDPOINT(EPTC,ACR,MTL,MLT,PZM,OYZ,LNR),NO COC(OXF).

39. Parochetti, J. V. (1977). Herbicides for No-Tillage Double Cropped Soybeans. *Proc.Northeast.Weed Sci.Soc.* 31: 54-60.

EcoReference No.: 41107
Chemical of Concern: GYP,OXF,DMM,MBZ; Habitat: T; Effect Codes: MOR,REP,PHY; Rejection Code: NO ENDPOINT,NO CONTROL(OXF,GYP).

40. Prendeville, G. N. and Warrens, G. F. (1977). Effect of Four Herbicides and Two Oils on Leaf-Cell Membrane Permeability. *Weed Res.* 17: 251-258.

EcoReference No.: 41767
Chemical of Concern: OXF; Habitat: T; Effect Codes: PHY,BCM; Rejection Code: NO ENDPOINT,NO CONTROL(OXF).

41. Ravindran, C. R. M., Suguna, S., and Shanmugasundaram, S. (2000). Tolerance of Oscillatoria Isolates to Agrochemicals and Pyrethroid Components. *Indian J.Exp.Biol.* 38: 402-404.

EcoReference No.: 98118

Chemical of Concern: DCM,FNV,CYP,OXF,CBD; Habitat: A; Effect Codes: POP,MOR; Rejection Code: OK(FNV,CYP),NO ENDPOINT(OXF).

42. Rovesti, L. and Deseo, K. V. (1990). Compatibility of Chemical Pesticides with the Entomopathogenic Nematodes, Steinernema carpocapsae Weiser and S.feltiae Filipjev (Nematoda: Steinernematidae). *Nematologica* 36: 237-245.

EcoReference No.: 70083
Chemical of Concern: FMP,PPG,AMZ,AND,MOM,PRT,MTAS,DZ,PRN,PPHD,ES,PAQT,ACR,DOD,CYX,TFN,OXF,PHMD,LNR,PNB,PZM,FSF,FRM,GYP; Habitat: T; Effect Codes: BEH,PHY; Rejection Code: NO COC(CTN),NO ENDPOINT(ALL CHEMS),TARGET(MTAS,PRT).

43. Sandmann, G. and Boger, P. (1988). Accumulation of Protoporphyrin IX in the Presence of Peroxidizing Herbicides. *Z.Naturforsch.Sect.* 43C: 699-704.

EcoReference No.: 98219
Chemical of Concern: OXF,ODZ; Habitat: A; Effect Codes: POP,BCM; Rejection Code: NO ENDPOINT(OXF).

44. Sandmann, G. and Boger, P. (1983). Comparison of the Bleaching Activity of Norflurazon and Oxyfluorfen. *Weed Sci.* 31: 338-341.

EcoReference No.: 98534
Chemical of Concern: NFZ,OXF; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(NFZ,OXF).

45. Sandmann, G. and Boger, P. (1983). Structure and Activity in Herbicidal Bleaching. *In: J.Miyamoto and P.C.Kearney (Eds.), Proc.5th Int.Congr.of Pestic.Chem., Aug.29 - Sept.4, 1982, Human Welfare and the Environment, Kyoto, Japan* 1: 321-326.

EcoReference No.: 98530
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM,POP; Rejection Code: NO ENDPOINT(OXF).

46. Sandmann, G., Lambert, R., and Boger, P. (1981). Multifunctional Mode of Action of Substituted Nitrodiphenylethers in Scenedesmus Cells. *Z.Naturforsch.* 36C: 633-637.

EcoReference No.: 98368
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM,PHY; Rejection Code: NO ENDPOINT(OXF).

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EcoReference No.: 98218
Chemical of Concern: OXF,MBZ,DU; Habitat: AT; Effect Codes: BCM,GRO; Rejection Code: NO ENDPOINT(OXF,DU).

48. Sandmann, G., Reck, H., and Boger, P. (1984). Herbicidal Mode of Action on Chlorophyll Formation. *J.Agric.Food Chem.* 32: 868-872.

EcoReference No.: 97845
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(OXF).

49. Sumida, M., Kohno, H., Shouda, K., Fukami, H., Tanaka, T., Wakabayashi, K., and Boger, P. (1996). Protoporphyrinogen-IX Oxidase Inhibition of new Diphenyl Ethers. *J.Pestic.Sci.* 21: 317-321.

EcoReference No.: 98131
Chemical of Concern: OXF; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: NO ENDPOINT(TARGET-OXF).

50. Takahashi, H., Ohki, A., Kanzaki, M., Tanaka, A., Sato, Y., Matthes, B., Boger, P., and Wakabayashi, K. (2001). Very-Long-Chain Fatty Acid Biosynthesis is Inhibited by Cafenstrole, N,N-Diethyl-3-Mesitylsulfonyl-1H-1,2,4-Triazole-1-Carboxamide and Its Analogs. *Z.Naturforsch.* 56C: 781-786.

EcoReference No.: 98112
Chemical of Concern: ACR,OXF,BSFM; Habitat: AT; Effect Codes: BCM,POP; Rejection Code: NO ENDPOINT(OXF),OK(ACR).

51. Takahashi, H., Ohki, A., Kato, S., Tanaka, A., Sato, Y., Matthes, B., Boger, P., and Wakabayashi, K. (2001). Inhibition of Very-Long-Chain Fatty Acid Biosynthesis by 2-Chloro-N-(3-Methoxy-2-Thenyl)-2',6'-Dimethylacetanilide, Thenylchlor, and Its Analogs. *Pestic.Biochem.Physiol.* 71: 140-146.

EcoReference No.: 98823
Chemical of Concern: BSFM,OXF,ACR; Habitat: AT; Effect Codes: BCM,POP; Rejection Code: NO ENDPOINT(OXF).

52. Takeuchi, S., Matsuda, T., Kobayashi, S., Takahashi, T., and Kojima, H. (2006). In Vitro Screening of 200 Pesticides for Agonistic Activity via Mouse Peroxisome Proliferator-Activated Receptor (PPAR)alpha and PPARgamma and Quantitative Analysis of In Vivo Induction Pathway. *Toxicol.Appl.Pharmacol.* 217: 235-244.

EcoReference No.: 89206
Chemical of Concern:
AND,HCCH,Captan,CHD,CTN,DDT,DBN,DCF,DLD,ES,EN,Folpet,HPT,MXC,PCP,ACF,ACFM,DFPM,FZFB,OXF,ACP,ANL,CPY,CPYM,DZ,DDVP,DMT,DS,ETN,FMP,FNT,FNTH,GYP,IFP,MLN,MTM,MDT,MP,PRN,PRT,PHSL,PSM,PIRM,PFF,TBO,TVP,TCM,TCF,CYF,CYH,CYP,DM,EFX,FNV,FYT,FVL,PMR,PYN,TFT,TLM,BDC,BMY,CBL,CBD,CBF,CPP,MCB,MOM,MLT,OML,PHMD,PIM,TBC,THM,ACR,ASM,FTL,MLX,MTL,PZM,ANZ,ATZ,MBZ,PRO,PMT,SZ,BSF,DFZ,DU,LNR,PPN,AMZ,BPH,BTN,DZM,EXQ,FRM,FZN,ILL,IMC,IPD,MCPA,24DXY,PAQT,PDM,PCZ,SXD,TBAH,TPM,TDF,TFZ,TFN,TFR,VCZ; Habitat: T; Effect Codes: BCM,CEL; Rejection Code: OK(ILL,PYN,DFPM),NO IN VITRO(ALL OTHER CHEMS).

53. Tang, L. C. and Hou, R. F. (1998). Potential Application of the Entomopathogenic Fungus, Nomuraea rileyi for Control of the Corn Earworm, Helicoverpa armigera. *Entomol.Exp.Appl.* 88: 25-30.

EcoReference No.: 98468
Chemical of Concern:
BTC,TFN,24D,PDM,GYP,FXP,FNV,DCM,MOM,CPY,IPD,Zineb,Maneb,GYP,CBF,BFT,BPZ,MVP,OXF; Habitat: T; Effect Codes: GRO,MOR; Rejection Code: OK(CBF),TARGET(Maneb,IPD),NO ENDPOINT(CPY,BFT,MOM,FNV,OXF,24D,GYP).

54. Wakabayashi, K., Sandmann, G., Ohta, H., and Boger, P. (1988). Peroxidizing Herbicides: Comparison of Dark and Light Effects. *J.Pestic Sci.* 13: 461-471 .

EcoReference No.: 98824
Chemical of Concern: OXF; Habitat: AT; Effect Codes: BCM,POP; Rejection Code: NO ENDPOINT(OXF).

55. Watanabe, H., Ohori, Y., Sandmann, G., Wakabayashi, K., and Boger, P. (1992). Quantitative Correlation

Between Short-Term Accumulation of Protoporphyrin IX and Peroxidative Activity of Cyclic Imides. *Pestic.Biochem.Physiol.* 42: 99-109.

EcoReference No.: 97961
Chemical of Concern: OXF; Habitat: A; Effect Codes: BCM,ACC; Rejection Code: NO ENDPOINT(OXF).

56. Weller, S. C., Masiunas, J. B., and Carpenter, P. L. (1984). Evaluation of Oxyfluorfen Formulations in Container Nursery Crops. *Hortscience* 19: 222-224 .

EcoReference No.: 44137
Chemical of Concern: OXF; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(OXF).

OXYFLUORFEN
Papers that Were Excluded from ECOTOX

Excluded

1. Field Sales Representatives and Branch Employees With Cover Memo. *Epa/ots; doc #878220827*.
   Rejection Code: HUMAN HEALTH.

2. 1999). Oxyfluorfen; extension of tolerance for emergency exemptions. *Federal Register* 64: 18369-18372.
   Rejection Code: HUMAN HEALTH.

3. 1987). Oxyfluorfen; pesticide tolerance. *Federal Register* 52: 42291-2.
   Rejection Code: HUMAN HEALTH.

4. 1997). Oxyfluorfen; pesticide tolerance for emergency exemption. *Federal Register* 62: 20104-20111.
   Rejection Code: HUMAN HEALTH.

5. 1981). Oxyfluorfen; tolerances for pesticides in food. *Federal Register* 46: 23228-9.
   Rejection Code: HUMAN HEALTH.

6. 1992). Pesticide chemicals manufacturing category effluent limitations guidelines, pretreatment standards, and new source performance standards. *Federal Register* 57: 12560-601.
   Rejection Code: FATE.

7. 1985). Pesticide programs; tolerances for pesticide chemicals in or on raw agricultural commodities; oxyfluorfen. *Federal Register* 50: 13194-5.
   Rejection Code: HUMAN HEALTH.

8. 1987). Pesticide tolerances for certain pesticide chemicals. *Federal Register* 52: 2225-6.
   Rejection Code: HUMAN HEALTH.

9. 1987). Pesticide tolerances for oxyfluorfen. *Federal Register* 52: 33935-6.
   Rejection Code: HUMAN HEALTH.

10. 2002). Pesticides; removal of duplicative or expired time-limited tolerances for emergency exemptions. *Federal Register* 67: 35045-35050.
    Rejection Code: HUMAN HEALTH.

11. 1996). Revocation of pesticide food additive regulations. *Federal Register* 61: 11994-2009.
    Rejection Code: HUMAN HEALTH.

12. 1982). Tolerances for pesticide chemicals in or on raw agricultural commodities; oxyfluorfen. *Federal Register* 47: 1380-1.
    Rejection Code: HUMAN HEALTH.

13. 1981). Tolerances for pesticide chemicals: oxyfluorfen. *Federal Register* 46: 23238-40.
    Rejection Code: HUMAN HEALTH.

14. 1982). Tolerances for pesticides in food; oxyfluorfen. *Federal Register* 47: 1374-5.
    Rejection Code: HUMAN HEALTH.

15. Abada, M. and Aviram, H. (Vegetable Oil as Adjuvant to Improve Herbicide Effectivity. *9th conference of the*

weed science society of israel, rehovot, israel, dec. 24-25, 1984. Phytoparasitica; 13 (3-4). 1985 (recd. 1986). 240.
Rejection Code: ABSTRACT.

16. Adityachaudhury, N., Chowdhury, A., Das, Asit K., Bhattacharyya, Anjan, and Pal, S (1994). Transformation of some selected pesticides. *Journal of the Indian Chemical Society* 71: 425-33.
Rejection Code: FATE.

17. Adler, I. L. and Hofmann, C. K (1980). Oxyfluorfen. *Analytical Methods for Pesticides and Plant Growth Regulators* 11: 331-41.
Rejection Code: METHODS.

18. Adler, Irving L., Haines, Linwood D., and Jones, Brent Marco (1978). Gas-liquid chromatographic determination of residues from the herbicide 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl) benzene. *Journal - Association of Official Analytical Chemists* 61: 636-9.
Rejection Code: CHEM METHODS.

19. Adomat, Christel and Boger, Peter (2000). Cloning, Sequence, Expression, and Characterization of Protoporphyrinogen IX Oxidase from Chicory. *Pesticide Biochemistry and Physiology* 66: 49-62.
Rejection Code: IN VITRO.

20. Affuso, A. M. G., Boni, F., Gabbani, G., Coppi, C., and Gargini, A (1999). Herbicides transport experimentation and modelling in the unsaturated zone for groundwater risk assessment. 63-71.
Rejection Code: FATE.

21. Akagi, T. and Skashita, N (1993). A quantum chemical study of light-dependent herbicides. *Zeitschrift fuer Naturforschung, C: Journal of Biosciences* 48: 345-9.
Rejection Code: CHEM METHODS.

22. Alikhanidi, Sokratis and Takahashi, Yoshimasa (2004). Pesticide persistence in the environment - collected data and structure-based analysis. *Journal of Computer Chemistry, Japan* 3: 59-70.
Rejection Code: FATE.

23. Alscher, Ruth and Strick, Christine (1984). Diphenyl ether-chloroplast interactions. *Pesticide Biochemistry and Physiology* 21: 248-55.
Rejection Code: IN VITRO.

24. Amvrazi, Elpiniki G. and Albanis, Triantafyllos A (2006). Multiresidue Method for Determination of 35 Pesticides in Virgin Olive Oil by Using Liquid-Liquid Extraction Techniques Coupled with Solid-Phase Extraction Clean Up and Gas Chromatography with Nitrogen Phosphorus Detection and Electron Capture Detection. *Journal of Agricultural and Food Chemistry* 54: 9642-9651.
Rejection Code: NO SPECIES (DEAD).

25. Angelidis, M. O., Markantonatos, P. G., Bacalis, N. C., and Albanis, T. A. (1996). Seasonal Fluctuations of Nutrients and Pesticides in the Basin of Evrotas River, Greece. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 31: 387-410.
Rejection Code: FATE.

26. Anon (1989). And a Search for Substitutes. *Citrograph* 74: 230.
Rejection Code: ABSTRACT.

27. Anon (1981). Herbicidal mixtures. *Research Disclosure* 202: 72-3.
Rejection Code: MIXTURE.

28. Aramendia, Maria A., Borau, Victoriano, Lafont, Fernando, Marinas, Alberto, Marinas, Jose M., Moreno, Jose M., and Urbano, Francisco J (2007). Determination of herbicide residues in olive oil by gas chromatography-tandem mass spectrometry. *Food Chemistry* 105: 855-861.
Rejection Code: NO SPECIES (DEAD).

29. Ashton, F. M. and Monaco, T. J. (1991). Weed Science Principles and Practices Third Edition. *Ashton, f. M. And t. J. Monaco. Weed science: principles and practices, third edition. Ix+466p. John wiley and sons, inc.: New york, new york, usa* Chichester, england, uk. Illus. Isbn 0-471-60084-9.; 0: Ix+466p.
Rejection Code: REVIEW.

30. Atwal, A. S. (1986). Future of Pesticides in Plant Protection. *Seminar on plant protection in the year 2000 ad, new delhi, india, dec. 20-22, 1984. Proc indian natl sci acad part b biol sci* 52: 77-90.
Rejection Code: REVIEW.

31. Avramides, Elizabeth J (2005). Long-term stability of pure standards and stock standard solutions for the determination of pesticide residues using gas chromatography. *Journal of Chromatography, A* 1080: 166-176.
Rejection Code: CHEM METHODS.

32. Ballesteros, E., Garcia Sanchez, A., and Ramos Martos, N (2006). Simultaneous multideterminationof residues of pesticides and polycyclic aromatic hydrocarbons in olive and olive-pomace oils by gas chromatography/tandem mass spectrometry. *Journal of Chromatography, A* 1111: 89-96.
Rejection Code: HUMAN HEALTH.

33. Bao, M. L., Pantani, F., Barbieri, K., Burrini, D., and Griffini, O (1996). Multi-residue pesticide analysis in soil by solid-phase disk extraction and gas chromatography/ion-trap mass spectrometry. *International Journal of Environmental Analytical Chemistry* 64: 23-245.
Rejection Code: CHEM METHODS.

34. Baruah, Manjumani and Mishra, R. R (1986). Effect of herbicides butachlor, 2,4-D and oxyfluorfen on enzyme activities and carbon dioxide evolution in submerged paddy field soil. *Plant and Soil* 96: 287-91.
Rejection Code: FATE.

35. Baumgartner, K., Smith, R. F., and Bettiga, L. (2005). Weed Control and Cover Crop Management Affect Mycorrhizal Colonization of Grapevine Roots and Arbuscular Mycorrhizal Fungal Spore Populations in a California Vineyard. *Mycorrhiza* 15: 111-119.
Rejection Code: MIXTURE.

36. Beach, E. D. , Fernandez-Cornejo, J., Huang, W. Y., and Uri, N. D. (1995). The Potential Risks of Groundwater and Surface Water Contamination by Agricultural Chemicals Used in Vegetable Production. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 30: 1295-1325.
Rejection Code: FATE.

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Rejection Code: REVIEW.

38. Becerril, Jose M. and Duke, Stephen O (1989). Protoporphyrin IX content correlates with activity of photobleaching herbicides. *Plant Physiology* 90: 1175-81.
Rejection Code: IN VITRO.

39. Bennett, Dianne A., Chung, Alex C., and Lee, S. Mark (1997). Multiresidue method for analysis of pesticides in liquid whole milk. *Journal of AOAC International* 80: 1065-1077.
Rejection Code: HUMAN HEALTH.

40. Bergamaschi, Brian A., Baston, David S., Crepeau, Kathryn L., and Kuivila, Kathryn M (1999). Determination of pesticides associated with suspended sediments in the San Joaquin River, California, USA, using gas chromatography-ion trap mass spectrometry. *Toxicological and Environmental Chemistry* 69: 305-319.
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41. Bergamaschi, Brian A., Kuivila, Kathryn M., and Fram, Miranda S (2001). Pesticides associated with suspended sediments entering San Francisco bay following the first major storm of water year 1996. *Estuaries* 24: 368-380.
Rejection Code: FATE.

42. Birchfield, Norman B. and Casida, John E (1996). Protoporphyrinogen Oxidase: High Affinity Tetrahydrophthalimide Radioligand for the Inhibitor/Herbicide-Binding Site in Mouse Liver Mitochondria. *Chemical Research in Toxicology* 9: 1135-1139.
Rejection Code: IN VITRO.

43. Birchfield, Norman B. and Casida, John E (1997). Protoporphyrinogen oxidase of mouse and maize: target site selectivity and thiol effects on peroxidizing herbicide action. *Pesticide Biochemistry and Physiology* 57: 36-43.
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Rejection Code: NO SPECIES (DEAD).

45. Borse, Tushar H., Maheshwari, Vijay L., and Baviskar, Manisha P (2000). Effect of diphenyl carbazide on the metribuzin induced inhibition of photosystem-II photochemistry. *Journal of Plant Biochemistry and Biotechnology* 9: 119-121.
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46. Boyd-Boland, A. A., Chai, M., Luo, Y. Z., Yang, M. J., Zhang, Z., Yang, M. J., Pawliszyn, J. B., and Gorecki, T. (1994). New Solvent-Free Sample Preparation Techniques Based on Fiber and Polymer Technologies. *Environmental science & technology* 28: 569a-574a.
Rejection Code: METHODS.

47. Boyd-Boland, Anna A., Magdic, Sonia, and Bawliszyn, Janusz B (1996). Simultaneous determination of 60 pesticides in water using solid-phase microextraction and gas chromatography-mass spectrometry. *Analyst (Cambridge, United Kingdom)* 121: 929-938.
Rejection Code: FATE, METHODS.

48. Boyd-Boland, Anna A. and Pawliszyn, Janusz B (1995). Solid-phase microextraction of nitrogen-containing herbicides. *Journal of Chromatography, A* 704: 163-72.
Rejection Code: FATE, METHODS.

49. Brodskii, E. S., Kluev, N. A., Zhil'nikov, V. G., Bocharov, B. V., Dovgilevich, A. V., Mel'nikova, N. P., and Grandberg, I. I (1992). Photodegradation of the herbicide Goal. *Toxicological and Environmental Chemistry* 34: 105-12.
Rejection Code: FATE.

50. Brudenell, A. Jp, Baker, D. A., and Grayson, B. T. (1995). Phloem Mobility of Xenobiotics: Tabular Review of Physicochemical Properties Governing the Output of the Kleier Model. *Plant growth regulation* 16: 215-231.
Rejection Code: MODELING.

51. Bushway, Rodney J. and Perkins, Lewis B (1993). Determination of oxyfluorfen in pesticide formulations by liquid chromatography. *Journal of AOAC International* 76: 90-1.
Rejection Code: CHEM METHODS.

52. Byers, W. Arthur, Freiser, B. S., and Perone, S. P (1983). Structural and activity characterization of organic compounds by electroanalysis and pattern recognition. *Analytical Chemistry* 55: 620-5.
Rejection Code: MODELING.

53. Camper, N. D., Whitwell, T., Keese, R. J., and Riley, M. B (1994). Herbicide levels in nursery containment pond water and sediments. *Journal of Environmental Horticulture* 12: 8-12.
Rejection Code: FATE.

54. Casalegno, Mose', Sello, Guido, and Benfenati, Emilio (2006). Top-Priority Fragment QSAR Approach in Predicting Pesticide Aquatic Toxicity. *Chemical Research in Toxicology* 19: 1533-1539.
Rejection Code: QSAR.

55. Casida, J. E. and Ruzo, L. O. (1986). Reactive Intermediates in Pesticide Metabolism Peracid Oxidations as Possible Biomimetic Models. *Issx (international society for the study of xenobiotics) first european meeting on foreign compound metabolism, malta, italy, 1985. Xenobiotica* 16: 1003-1016.
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Rejection Code: HUMAN HEALTH.

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Rejection Code: MODELING.

60. Cripe, C. R. and Pritchard, P. H. (1990). Aquatic Test Systems for Studying the Fate of Xenobiotic Compounds. *Landis, w. G. And w. H. Van der schalie (ed.). Astm (american society for testing and materials) stp (special technical publications), 1096. Aquatic toxicology and risk assessment* 13th symposium, atlanta, georgia, usa, april 16-18, 1989. Vii+378p. Astm: philadelphia, pennsylvania, usa. Illus. Maps. Isbn 0-8031-1460-5.; 0: 29-47.
Rejection Code: MODELING.

61. Crotser, M. P., Weston, L. A., and McNiel, R. (1995). Preemergence Weed Control With Sulfentrazone (F 9285) and Sulfentrazone Combinations in Field-Growth Ornamentals. *Hortscience* 30: 801-802 (ABS).

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62. Cunha, Sara C., Lehotay, Steven J., Mastovska, Katerina, Fernandes, Jose O., Beatriz, Maria, and Oliveira, P. P (2007). Evaluation of the QuEChERS sample preparation approach for the analysis of pesticide residues in olives. *Journal of Separation Science* 30: 620-632.
Rejection Code: CHEM METHODS.

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Rejection Code: CHEM METHODS, FATE.

64. Das, A. C., Debnath, A., and Mukherjee, D. (2003). Effect of the Herbicides Oxadiazon and Oxyfluorfen on Phosphates Solubilizing Microorganisms and Their Persistence in Rice Fields. *Chemosphere* 53: 217-221.
Rejection Code: NO TOX DATA.

65. Das, Amal Chandra and Debnath, Anjan (2006). Effect of systemic herbicides on N2-fixing and phosphate solubilizing microorganisms in relation to availability of nitrogen and phosphorus in paddy soils of West Bengal. *Chemosphere* 65: 1082-1086.
Rejection Code: BACTERIA.

66. Daugherty, D. T. and Mosesman, N. H (1988). Application of wide bore capillary columns to analyses of pesticides and herbicides. *Proceedings - Water Quality Technology Conference* 15: 183-93.
Rejection Code: CHEM METHODS.

67. Dayan, F. E. and Duke, S. O. (Overview of Protoporphyrinogen Oxidase-Inhibiting Herbicides. *British crop protection council. The 1997 brighton crop protection conference: weeds, vols. 1-3; international conference, brighton, england, uk, november 17-20, 1997. Xxiv+442p.(Vol. 1); xxiv+451p.(Vol. 2); xxiv+307p.(Vol. 3) british crop protection council (bcpc): farnham, england, uk. Isbn 1-901396-45-2(set); isbn 1-901396-46-0(vol. 1); isbn 1-901396-47-9(vol. 2); isbn 1-901396-48-7(vol. 3).; 0 (0). 1997. 83-92.*
Rejection Code: REVIEW.

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Rejection Code: MODELING.

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Explanation of OPP Acceptability Criteria and Rejection Codes for ECOTOX Data

Studies located and coded into ECOTOX must meet acceptability criteria, as established in the *Interim Guidance of the Evaluation Criteria for Ecological Toxicity Data in the Open Literature, Phase I and II*, Office of Pesticide Programs, U.S. Environmental Protection Agency, July 16, 2004. Studies that do not meet these criteria are designated in the bibliography as "Accepted for ECOTOX but not OPP." The intent of the acceptability criteria is to ensure data quality and verifiability. The criteria parallel criteria used in evaluating registrant-submitted studies. Specific criteria are listed below, along with the corresponding rejection code.

- The paper does not report toxicology information for a chemical of concern to OPP; (Rejection Code: NO COC)
- The article is not published in English language; (Rejection Code: NO FOREIGN)
- The study is not presented as a full article. Abstracts will not be considered; (Rejection Code: NO ABSTRACT)
- The paper is not publicly available document; (Rejection Code: NO NOT PUBLIC (typically not used, as any paper acquired from the ECOTOX holding or through the literature search is considered public)
- The paper is not the primary source of the data; (Rejection Code: NO REVIEW)
- The paper does not report that treatment(s) were compared to an acceptable control; (Rejection Code: NO CONTROL)
- The paper does not report an explicit duration of exposure; (Rejection Code: NO DURATION)
- The paper does not report a concurrent environmental chemical concentration/dose or application rate; (Rejection Code: NO CONC)
- The paper does not report the location of the study (e.g., laboratory vs. field); (Rejection Code: NO LOCATION)
- The paper does not report a biological effect on live, whole organisms; (Rejection Code: NO IN-VITRO)
- The paper does not report the species that was tested; and this species can be verified in a reliable source; (Rejection Code: NO SPECIES)
- The paper does not report effects associated with exposure to a single chemical. (Rejection Code: NO MIXTURE). It should be noted that all papers including data on pesticide mixtures are considered.

Additionally, efficacy studies on target species are excluded and coded as NO TARGET.

Data that originated from the OPP Pesticide Ecotoxicity Database is coded as NO EFED. These data are already available to the chemical team.