

APPENDIX I: BIBLIOGRAPHY OF ECOTOX OPEN LITERATURE DATA REVIEWED FOR PROPANIL (INCLUDING ITS DEGRADATE 3,4-DCA)

A screen of the ECOTOX database was completed for both the propanil (parent) and its degradate 3,4-DCA. Of the propanil ECOTOX studies that were reviewed there were acute freshwater fish studies that were found to be more sensitive than the registrant submitted studies. However, upon further review they were all found not to be acceptable E5722, 11531, 19808 (invertebrate data only) and 104575). Found in the bibliography within [brackets] is the description why these studies were not usable within the assessment.

For the degradate 3,4-DCA the screen of ECOTOX data found numerous studies that with toxicity values that were more sensitive than registrant submitted studies for the parent compound (propanil) for the chronic freshwater fish, and freshwater invertebrates (both acute and chronic). The toxicity endpoints that were found to be more sensitive than the parent compound were converted from the degradate into the parent using molecular weights. From this it was indicated that the degradate is more toxic than the parent compound. The other citations without any classifications were found to not be more sensitive than the registrant submitted studies, and were not reviewed any farther. Two acute invertebrate studies were used quantitatively within the assessment (E55961 and E102280). The description of why other studies that were reviewed and not acceptable for use within the assessment are found within [brackets]. The studies that were discussed (used) within the assessment are labeled with two asterisks (**).

As a part of the assessment, a review of the studies that involved mixtures was completed (labeled with a ¹). Two of these studies (79428 and 93382) were not usable as the exposure was via injection, and that is a route that is not apart of our assessments. One of the other studies was an efficacy study on the target species, another mechanism not examined within assessments. One mixture study (15345) using a mixture of 3,4-DCA and lindane documented a significant decrease in growth of zebrafish larvae.

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.

PROPANIL (Includes degradate 3,4-DCA studies)
Papers that Were Accepted for ECOTOX
(includes both those accepted and those not accepted by OPP)

Adema, D. M. M. (1978). *Daphnia magna* as a Test Animal in Acute and Chronic Toxicity Tests. *Hydrobiologia* 59: 125-134.

EcoReference No.: 2018

Chemical of Concern: PCP,DLD,DU; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(PCP,DCA).

Adema, D. M. M. and Vink, G. J. (1981). A Comparative Study of the Toxicity of 1,1,2-Trichloroethane, Dieldrin, Pentachlorophenol, and 3,4-Dichloroaniline for Marine and Fresh Water Organisms. *Chemosphere* 10: 533-554 (OECDG Data File).

EcoReference No.: 15149

Chemical of Concern: PCP,DU; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(PCP,DCA).

Allen, Y., Calow, P., and Baird, D. J. (1995). A Mechanistic Model of Contaminant-Induced Feeding Inhibition in *Daphnia magna*. *Environ.Toxicol.Chem.* 14: 1625-1630.

EcoReference No.: 10203

Chemical of Concern: NaBr,Cd,DU; Habitat: A; Effect Codes: BEH,MOR; Rejection Code: LITE EVAL CODED(NaBr,DCA),OK(Cd).

Andersen, H. R., Wollenberger, L., Halling-Sorensen, B., and Kusk, K. O. (2001). Development of Copepod Nauplii to Copepodites - a Parameter for Chronic Toxicity Including Endocrine Disruption. *Environ.Toxicol.Chem.* 20: 2821-2829.

EcoReference No.: 66691

Chemical of Concern: EED,NYP,Cr,DU; Habitat: A; Rejection Code: LITE EVAL CODED(EED,DCA).

Baer, K. N. and Goulden, C. E. (1998). Evaluation of a high-Hardness COMBO Medium and Frozen Algae for *Daphnia magna*. *Ecotoxicol.Environ.Saf.* 39: 201-206.

EcoReference No.: 19270

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(DCA).

Baird, D. J., Barber, I., and Calow, P. (1990). Clonal Variation in General Responses of *Daphnia magna* Straus to Toxic Stress. I. Chronic Life-History Effects. *Funct.Ecol.* 4: 399-407.

EcoReference No.: 3711

Chemical of Concern: Cd,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Barata, C. and Baird, D. J. (2000). Determining the Ecotoxicological Mode of Action of Chemicals from Measurements Made on Individuals: Results from Instar-Based Tests with *Daphnia magna* Straus. *Aquat.Toxicol.* 48: 195-209.

EcoReference No.: 47311

Chemical of Concern: Cd,FA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(FA,DCA).

Barber, I., Baird, D. J., and Calow, P. (1990). Clonal Variation in General Responses of *Daphnia magna* Straus to Toxic Stress. II. Physiological Effects. *Funct.Ecol.* 4: 409-414.

EcoReference No.: 102153

Chemical of Concern: Cd,DCA; Habitat: A; Effect Codes: CEL,PHY; Rejection Code: LITE EVAL CODED(DCA).

Barnett, J. B. and Gandy, J. (1989). Effect of Acute Propanil Exposure on the Immune Response of C57BI/6 Mice. *Fundam.Appl.Toxicol.* 12: 757-764.

EcoReference No.: 104564

Chemical of Concern: PPN; Habitat: T; Effect Codes: CEL,PHY,BCM; Rejection Code: LITE EVAL CODED(PPN).

Barnett, J. B., Gandy, J., Wilbourn, D., and Theus, S. A. (1992). Comparison of the Immunotoxicity of Propanil and Its Metabolite, 3,4-Dichloroaniline, in C57BI/6 Mice. *Fundam.Appl.Toxicol.* 18: 628-631.

EcoReference No.: 102074

Chemical of Concern: DCA,PPN; Habitat: T; Effect Codes: CEL,PHY; Rejection Code: LITE EVAL CODED(DCA),OK(PPN).

Blockwell, S. J., Taylor, E. J., Jones, I., and Pascoe, D. (1998). The Influence of Fresh Water Pollutants and Interaction with *Asellus aquaticus* (L.) on the Feeding Activity of *Gammarus pulex* (L.). *Arch.Environ.Contam.Toxicol.* 34: 41-47.

EcoReference No.: 19003

Chemical of Concern: HCCH,Cu,DU; Habitat: A; Effect Codes: BEH,MOR; Rejection Code: LITE EVAL CODED(Cu,DCA),OK(HCCH).

Blockwell, S. J., Taylor, E. J., Phillips, D. R., Turner, M., and Pascoe, D. (1996). A Scanning Electron Microscope Investigation of the Effects of Pollutants on the Hepatopancreatic Ceca of *Gammarus pulex* (L.). *Ecotoxicol.Environ.Saf.* 35: 209-221 .

EcoReference No.: 18120

Chemical of Concern: HCCH,Cu,DU; Habitat: A; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(Cu,DCA),OK(HCCH).

Blyler, G., Landreth, K. S., Lillis, T., Schafer, R., Theus, S. A., Gandy, J., and Barnett, J. B. (1994). Selective Myelotoxicity of Propanil. *Fundam.Appl.Toxicol.* 22: 505-510.

EcoReference No.: 104565

Chemical of Concern: PPN; Habitat: T; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(PPN).

Bonnet, J. L., Bonnemoy, F., Dusser, M., and Bohatier, J. (2007). Assessment of the Potential Toxicity of Herbicides and Their Degradation Products to Nontarget Cells Using Two Microorganisms, the Bacteria *Vibrio fischeri* and the Ciliate *Tetrahymena pyriformis*. *Environ.Toxicol.* 22: 78-91.

EcoReference No.: 97635

Chemical of Concern: DCA,ACR,DU,GYP,AMPA; Habitat: A; Effect Codes: GRO,CEL; Rejection Code: LITE EVAL CODED(GYP,DU,DCA),OK(AMPA).

Bowling, C. C. and Hudgins, H. R. (1966). The Effect of Insecticides on the Selectivity of Propanil on Rice. *Weeds* 14: 94-95.

EcoReference No.: 25474

Chemical of Concern: PPN,EN,AZ,TXP,PPHD,MLN,Naled; Habitat: T; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(TXP,EN,PPN,PPHD,AZ,MLN,Naled).

Braverman, M. P. and Jordan, D. L. (1996). Efficacy of KIH-2023 in dry- and Water-Seeded Rice (*Oryza sativa*). *Weed Technol.* 10: 876-882.

EcoReference No.: 104650

Chemical of Concern: MLT,TBC,PPN,BSF; Habitat: A; Effect Codes: PHY,POP,GRO; Rejection Code: LITE EVAL CODED(PPN),OK(MLT,TBC).

Broderius, S. J., Kahl, M. D., and Hoglund, M. D. (1995). Use of Joint Toxic Response to Define the Primary Mode of Toxic Action for Diverse Industrial Organic Chemicals. *Environ.Toxicol.Chem.* 14: 1591-1605 (Author Communication Used).

EcoReference No.: 15031

Chemical of Concern:

ACR,DNT,PL,4NP,2CP,OPHP,PCP,C8OH,NP,RTN,CPH,NAPH,As,BMN,CBL,DU; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CBL,NAPH,RTN,PCP,DU),OK(ACR,DNT,PL,4NP,2CP,DPHP,NP,CPH,AS,BMN),NO PUB AS(C8OH).

Brooke, L. T., Call, D. J., Geiger, D. L., and Northcott, C. E. (1984). Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Vol. 1. *Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI* 414.

EcoReference No.: 12448

Chemical of Concern: BMN,C10OH,FRN,DPDP,PPA,DU; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(DPDP,C10OH,PPA,DCA),OK(BMN,FRN).

Brown, K. W., Anderson, D. C., Jones, S. G., Deuel, L. E., and Price, J. D. (1979). The Relative Toxicity of Four Pesticides in Tap Water and Water From Flooded Rice Paddies. *Int.J.Environ.Stud.* 14: 49-53.

EcoReference No.: 5722

Chemical of Concern: CBL,PPN,MLT,CBF,PPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CBL,CBF,PPN),OK(MLT).

Brown, L. S. and Lean, D. R. S. (1995). Toxicity of Selected Pesticides to Lake Phytoplankton Measured Using

Photosynthetic Inhibition Compared to Maximal Uptake Rates of Phosphate and Ammonium.
Environ.Toxicol.Chem. 14: 93-98.

EcoReference No.: 13724

Chemical of Concern: 24DXY,ATZ,DBN,DU,PMT,SZ,TFN,PPZ,Captan,DCPA,PPN; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(24DXY,Captan,ATZ,SZ,PPZ,DU,DCPA,PPN,PMT).

Cain, J. R. and Cain, R. K. (1983). The Effects of Selected Herbicides on Zygospor Germination and Growth of *Chlamydomonas moewusii* (Chlorophyceae, Volvocales). *J.Phycol.* 19: 301-305.

EcoReference No.: 61203

Chemical of Concern:

EDT,ATZ,DU,PCL,24DXY,PAQT,PRO,PPN,DMB,LNR,ACR,AMTR,BMN,AMTL; Habitat: A; Effect Codes: POP,REP; Rejection Code: LITE EVAL CODED(LNR,PRO,ATZ,DU,PPN),NO ENDPOINT(24DXY).

Caldwell, R. S. (1977). Biological Effects of Pesticides on the Dungeness Crab. *EPA-600/3-77-131, U.S.EPA, Gulf Breeze, FL* 143 p. (NTIS/PB-276978).

EcoReference No.: 6793

Chemical of Concern: CBF,CHD,MLN,MXC,24DXY,Captan,PPN,TFN,TBF; Habitat: A; Effect Codes: GRO,MOR,CEL,ACC,BEH; Rejection Code: LITE EVAL CODED(24DXY,TBF,CBF,MLN,Captan,PPN),OK(CHD,MXC,TFN).

Call, D. J., Brooke, L. T., Kent, R. J., Knuth, M. L., Anderson, C., and Moriarity, C. (1983). Toxicity, Bioconcentration, and Metabolism of the Herbicide Propanil (3',4'-Dichloropropionanilide) in Freshwater Fish. *Arch.Environ.Contam.Toxicol.* 12: 175-182 (Author Communication Used).

EcoReference No.: 15275

Chemical of Concern: PPN; Habitat: A; Rejection Code: LITE EVAL CODED(PPN)//No TOXRES - unknown reason by Jarvinen.

Charoy, C. P., Janssen, C. R., Persoone, G., and Clement, P. (1995). The Swimming Behavior of *Brachionus calyciflorus* (Rotifer) Under Toxic Stress. I. The Use of Automated Trajectorymetry for Determining Sublethal Effects of Chemicals. *Aquat.Toxicol.* 32: 271-282.

EcoReference No.: 3388

Chemical of Concern: HCCH,CuS,NaPCP,DU; Habitat: A; Effect Codes: BEH; Rejection Code: LITE EVAL CODED(CuS,OW-TRV-Cu,NaPCP,DCA),OK(HCCH).

Cholakias, J. M., Wong, L. C. K., and Lee, C. C. (1978). Study of the Chemical and Behavioral Toxicology of Substitute Chemicals in Microtine Rodents. *EPA-600/3-78-082, U.S.EPA, Corvallis, OR* 54 p. (NTIS/PB-288416).

EcoReference No.: 70756

Chemical of Concern: PNB,TFN,24D,MP,PRN,PPN,PNB,SZ,DLD; Habitat: T; Effect Codes: MOR,PHY; Rejection Code: LITE EVAL CODED(SZ,MP,24D,TFN,PPN).

Corthay, J., Medilanski, P., and Benakis, A. (1977). Induction of Hepatic Microsomal Enzymes by Diuron, Phenobenzuron, and Metabolites in Rats. *Ecotoxicol.Environ.Saf.* 1: 197-202.

EcoReference No.: 102142

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

Crosby, D. G. and Tucker, R. K. (1966). Toxicity of Aquatic Herbicides to *Daphnia magna*. *Science* 154: 289-291.

EcoReference No.: 2775

Chemical of Concern: EDT,24DXY,DBN,DU,MLT,PAQT,PPN,AMTL,MCPA,As; Habitat: A; Effect Codes: PHY,MOR; Rejection Code: LITE EVAL CODED(24DXY,MLT,DU,PPN).

Crossland, N. O. and Hillaby, J. M. (1985). Fate and Effects of 3,4-Dichloroaniline in the Laboratory and in Outdoor Ponds: II. Chronic Toxicity to *Daphnia* spp. and Other Invertebrates. *Environ.Toxicol.Chem.* 4 : 489-499.

EcoReference No.: 11488

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Cuff, C. F., Zhao, W., Nukui, T., Schafer, R., and Barnett, J. B. (1996). 3,4-Dichloropropionanilide-Induced Atrophy of the Thymus: Mechanisms of Toxicity and Recovery. *Fundam.Appl.Toxicol.* 33: 83-90.

EcoReference No.: 104566

Chemical of Concern: PPN; Habitat: T; Effect Codes: PHY,CEL,BCM; Rejection Code: LITE EVAL CODED(PPN).

De la Rosa, P., Barnett, J. B., and Schafer, R. (2005). Characterization of Thymic Atrophy and the Mechanism of Thymocyte Depletion After In Vivo Exposure to a Mixture of Herbicides. *J.Toxicol.Environ.Health A* 68: 81-98.

EcoReference No.: 79428

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

De la Rosa, P., Barnett, J. B., and Schafer, R. (2003). Loss of Pre-B and IgM+ B Cells in the Bone Marrow After Exposure to a Mixture of Herbicides. *J.Toxicol.Environ.Health A* 66: 2299-2313.

EcoReference No.: 93382

Chemical of Concern: PPN,DMDP; Habitat: T; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(DMDP,PPN).

Dezfuli, B. S., Giari, L., Simoni, E., Palazzi, D., and Manera, M. (2003). Alteration of Rodlet Cells in Chub Caused by the Herbicide Stam M-4 (Propanil). *J.Fish Biol.* 63: 232-239.

EcoReference No.: 104567

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

Diamantino, T. C., Ribeiro, R., Goncalves, F., and Soares, A. M. V. M. (1997). METIER (Modular Ecotoxicity Tests Incorporating Ecological Relevance) for Difficult Substances. 4. Test Chamber for Cladocerans in Flow-Through. *Environ.Toxicol.Chem.* 16: 1234-1238.

EcoReference No.: 17942

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

E.I.DuPont de Nemours & Co. (1989). Mouse Bone Marrow Micronucleus Assay of 3,4-Dichlorobenzeneamine with Attachments and Cover Letter from Socma Dated 100289. *EPA/OTS Doc.#40-8976501* 21 p. (NTIS/OTS0532110).

EcoReference No.: 102327

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

E.I.Dupont Denemours & Co.Inc. (1979). Skin Absorption Subacute Tests with Dichloroaniline and Related Materials. *EPA/OTS Doc.#87-8221311* 78 p. (NTIS/OTS0215198).

EcoReference No.: 76954

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

EG&G Bionomics (1992). Initial Submission: Toxicity of Three Materials to Embryos of Eastern Oysters with Cover Letter Dated 081492. *EPA/OTS Doc.#88-920008058* 15 p. (NTIS/OTS 0546053).

EcoReference No.: 90737

Chemical of Concern: TCC,DCA; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(TCC,DCA).

Elendt, B. P. (1990). Influence of Water Composition on the Chronic Toxicity of 3,4-Dichloroaniline to *Daphnia magna*. *Water Res.* 24: 1169-1172.

EcoReference No.: 249

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Ensenbach, U. and Nagel, R. (1995). Toxicity of Complex Chemical Mixtures: Acute and Long-Term Effects on Different Life Stages of Zebrafish (*Brachydanio rerio*). *Ecotoxicol.Environ.Saf.* 30: 151-157.

EcoReference No.: 15345

Chemical of Concern: HCCH,DCA,DU; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(DCA).

EPA/OTS (1985). Toxicity Tests with *Daphnia magna*: Acute Toxicity of Eight Test Materials to a Newly-Introduced Strain of *D. magna* in Reconstituted Fresh Water. *EPA/OTS Doc.#878214957* 15 p. (NTIS/OTS0206734).

EcoReference No.: 102333

Chemical of Concern: CYP,MP,DCA; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(DCA,MP,CYP).

Feng, L., Wang, L. S., Zhao, Y. H., and Song, B. (1996). Effects of Substituted Anilines and Phenols on Root Elongation of Cabbage Seed. *Chemosphere* 32: 1575-1583.

EcoReference No.: 49145

Chemical of Concern: PL,DCNA,AN,DCA; Habitat: T; Effect Codes: GRO; Rejection Code: OK(DCNA),LITE EVAL CODED(DCA).

Ferrando, M. D. and Andreu-Moliner, E. (1991). Acute Lethal Toxicity of Some Pesticides to *Brachionus calyciflorus* and *Brachionus plicatilis*. *Bull.Environ.Contam.Toxicol.* 47: 479-484 (OECDG Data File).

EcoReference No.: 5139

Chemical of Concern: CPY,HCCH,DU,TCF,FNT; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CPY,DCA,TCF,FNT).

Ferrando, M. D., Janssen, C. R., Andreu, E., and Persoone, G. (1993). Ecotoxicological Studies with the Freshwater Rotifer *Brachionus calyciflorus* III. The Effects of Chemicals on the Feeding Behavior. *Ecotoxicol.Environ.Saf.* 26: 1-9 (OECDG Data File).

EcoReference No.: 8272

Chemical of Concern: HCCH,CuS,PCP,DCA,DU; Habitat: A; Effect Codes: BEH; Rejection Code: LITE EVAL CODED(CuS,OW-TRV-Cu,PCP,DCA).

Gatidou, G. and Thomaidis, N. S. (2007). Evaluation of Single and Joint Toxic Effects of Two Antifouling Biocides, Their Main Metabolites and Copper Using Phytoplankton Bioassays. *Aquat.Toxicol.* 85: 184-191.

EcoReference No.: 101987

Chemical of Concern: CU,DCA,DCPU,DU,MMD; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CU,DCA,DU,MMD),NO ENDPOINT(DCPU).

Geiger, D. L., Call, D. J., and Brooke, L. T. (1988). Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*) Volume IV. *Ctr.for Lake Superior Environ.Stud., Volume 4, Univ.of Wisconsin-Superior, Superior, WI* 355.

EcoReference No.: 12859

Chemical of Concern:

MOM,ACC,BMC,BMN,CBL,CPY,DS,DZ,MLN,PMR,C8OH,ACL,NER,MTB,DU,MEN,DCF; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(PMR,NER,DS,CPY,BMC,CBL,DZ,C8OH,MOM,ACL,MLN,DCA,MEN,DCF).

Geiger, D. L., Poirier, S. H., Brooke, L. T., and Call, D. J. (1986). Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*) Volume III. *Ctr.for Lake Superior Environ.Stud., Univ.of Wisconsin-Superior, Superior, WI* 328.

EcoReference No.: 12858

Chemical of Concern: ACR,DU,RTN,AMSV,ETHB,DCB,PPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(DCB,RTN,AMSV,DU,PPN).

Girling, A. E., Pascoe, D., Janssen, C. R., Peither, A., Wenzel, A., Schafer, H., Neumeier, B., Mitchell, G. C., Taylor, E. J., Maund, S. J., Lay, J. P., Juttner, I., Crossland, N. O., Stephenson, R. R., and Persoone, G. (2000). Development of Methods for Evaluating Toxicity to Freshwater Ecosystems. *Ecotoxicol.Environ.Saf.* 45: 148-176.

EcoReference No.: 49576

Chemical of Concern: HCCH,ATZ,CuS,Cu,DCA; Habitat: A; Effect Codes: BEH,PHY,POP,MOR,GRO,REP; Rejection Code: LITE EVAL CODED(ATZ,Cu,CuS,DCA),OK(HCCH).

Girling, A. E., Tattersfield, L. J., Mitchell, G. C., Pearson, N., Woodbridge, A. P., and Bennett, D. (2000). Development of Methods to Assess the Effects of Xenobiotics in Outdoor Artificial Streams. *Ecotoxicol.Environ.Saf.* 45: 1-26.

EcoReference No.: 49577

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Gomez de Barreda Ferraz, D., Sabater, C., and Carrasco, J. M. (2004). Effects of Propanil, Tebufenozide and Mefenacet on Growth of Four Freshwater Species of Phytoplankton: A Microplate Bioassay. *Chemosphere* 56: 315-320.

EcoReference No.: 105484

Chemical of Concern: TUZ,PPN; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(TUZ,PPN).

Grossmann, K., Berghaus, R., and Retzlaff, G. (1992). Heterotrophic Plant Cell Suspension Cultures for Monitoring Biological Activity in Agrochemical Research. Comparison with Screens Using Algae, Germinating Seeds and Whole Plants. *Pestic.Sci.* 35: 283-289.

EcoReference No.: 78497

Chemical of Concern:

PDM,ASM,CPP,PHMD,GFSNH,ACFNa,AZT,PMT,MBZ,BT,DU,PPN,PAQT,PHMD,MCPA,24D,ACR,SXD,DFPM,DBN,GYP,IZT,IMQ,CSF,UREA,NP; Habitat: AT; Effect Codes: GRO,POP; Rejection Code: LITE EVAL
CODED(ATZ,DU,GYP,PDM,PMT,PPN,PAQT,ACR,GFSNH),OK(24D,SXD,PHMD).

Guilhermino, L., Lopes, M. C., Carvalho, A. P., and Soares, A. M. V. M. (1996). Inhibition of Acetylcholinesterase Activity as Effect Criterion in Acute Tests with Juvenile *Daphnia magna*. *Chemosphere* 32: 727-738.

EcoReference No.: 16501
Chemical of Concern: Cd,DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Guilhermino, L., Soares, A. M. V. M., Carvalho, A. P., and Lopes, M. C. (1998). Acute Effects of 3,4-Dichloraniline on Blood of Male Wistar Rats. *Chemosphere* 37: 619-632.

EcoReference No.: 49793
Chemical of Concern: DCA; Habitat: T; Effect Codes: GRO,BCM,CEL; Rejection Code: LITE EVAL CODED(DCA).

Guilhermino, L., Sobral, O., Chastinet, C., Ribeiro, R., Goncalves, F., Silva, M. C., and Soares, A. M. V. M. (1999). A *Daphnia magna* First-Brood Chronic Test: An Alternative to the Conventional 21-Day Chronic Bioassay? *Ecotoxicol.Environ.Saf.* 42: 67-74.

EcoReference No.: 20061
Chemical of Concern: NaBr,PRN,Cd,DCA,DU; Habitat: A; Effect Codes: REP,MOR; Rejection Code: LITE EVAL CODED(NaBr,DU),OK(PRN,Cd,DCA).

Hill, E. F. and Camardese, M. B. (1986). Lethal Dietary Toxicities of Environmental Contaminants and Pesticides to Coturnix. *U.S.Fish Wildl.Serv., Fish Wildl.Tech.Rep.No.2* 147 p.

EcoReference No.: 50181
Chemical of Concern:
24D,24DXY,ACP,ADC,AMSV,AMTL,AND,ARM,ATN,ATZ,AZ,BMC,BMN,BMY,Captan,CBF,CBL,CdCl,CHD,CMPH,CPY,CPYM,CrS,DBN,DCF,DCTP,DDT,DDVP,DEM,DFPM,DINO,DLD,DMB,DMT,DQBr,DS,DU,DZ,EN,EP,ES,ETN,FMP,FNF,FNT,FNTH,FTTCl,GYP,HCCH,HgCl₂,HPT,IFP,K₂Cr₂O₇,LNR,Maneb,MCB,MCPB,MDT,MLN,MLT,MOM,MP,MRX,MSMA,MTAS,MTM,MVP,MXC,Naled,Ni,OXD,Pb,PbN,PCB,PCL,PCP,PHSL,PMR,PPB,PPHD,PPN,PPX,PQT,PRN,PRT,PSM,PYN,RSM,RTN,SPS,STAR,SZ,TBO,TCF,TEPP,TFN,THM,TMP,TVMP, TVP,TXP,V,Zineb,Ziram,ZnP; Habitat: T; Effect Codes: MOR,BEH; Rejection Code: LITE EVAL
CODED(ACP,ADC,ATN,ATZ,AZ,BMC,BMY,Captan,CBF,CBL,CMPH,CPY,CPYM,DCF,DCTP,DDVP,DMT,DQBr,DS,DU,DZ,EP,ES,FMP,FNF,FNT,FTTCl,GYP,MCB,MDT,MLN,MLT,MOM,MP,MTAS,MTM,MVP,Naled,OXD,PMR,PPN,PQT,PRN,PRT,PSM,RTN,SZ,TBO,TCF,TFN,TMP,TVP,Ziram,24D),OK(ES,MVP,PPN,TEPP,TFN).

Hoffman, D. J. and Albers, P. H. (1984). Evaluation of Potential Embryotoxicity and Teratogenicity of 42 Herbicides, Insecticides, and Petroleum Contaminants to Mallard Eggs. *Arch.Environ.Contam.Toxicol.* 13 : 15-27.

EcoReference No.: 35249
Chemical of Concern:
ACP,CBL,DZ,DMT,EN,HCCH,MLN,MOM,Naled,PRN,PMR,PSM,SPS,TMP,TXP,AMTL,ATZ,BMN,MCPA,24DXY,DMB,GYP,PAQT,PCL,PRO,PPN,TFN,ALSV,DDVP; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL
CODED(PMR,GYP,PSM,24DXY,Naled,MLN,CBL,ACP,PRO,DZ,ATZ,MOM,DMT,DMB,ALSV,TMP,DVDP,PPN),NO MIXTURE(BMN,MCPA).

Hooftman, R. N., Adema, D. M. M., and Kauffman-Van Bommel, J. (1989). Developing a Set of Test Methods for

the Toxicological Analysis of the Pollution Degree of Waterbottoms. *Rep.No.16105, Netherlands Organization for Applied Scientific Research* 68 p. (DUT).

EcoReference No.: 5356

Chemical of Concern: HCCH,Cu,Cd,TBTO,DU; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBTO,DCA).

Hulzebos, E. M., Adema, D. M. M., Dirven-Van Breemen, E. M., Henzen, L., Van Dis, W. A., Herbold, H. A., Hoekstra, J. A., Baerselman, R., and Van Gestel, C. A. M. (1993). Phytotoxicity Studies with *Lactuca sativa* in Soil and Nutrient Solution. *Environ.Toxicol.Chem.* 12: 1079-1094.

EcoReference No.: 46533

Chemical of Concern: PCP,PAH,AZ,AMSV,NAPH,DCB,ACE,BPH,EPTC,DU,ES; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(EPTC,BPH,ACE,AZ,DCB,NAPH,PCP,AMSV,DCA,ES)//OK(EcoSSL).

Jak, R. G., Maas, J. L., and Scholten, M. C. T. (1998). Ecotoxicity of 3,4-Dichloroaniline in Enclosed Freshwater Plankton Communities at Different Nutrient Levels. *Ecotoxicology* 7: 49-60.

EcoReference No.: 50576

Chemical of Concern: DCA; Habitat: A; Effect Codes: REP,POP; Rejection Code: LITE EVAL CODED(DCA).

Janssen, C. R., Espiritu, E. Q., and Persoone, G. (1993). Evaluation of the new "Enzymatic Inhibition" Criterion for Rapid Toxicity Testing with *Daphnia magna*. In: A.Soures and P.Calow (Eds.), *Progress in Standardization of Aquatic Toxicity Tests*, Lewis Publ. 71-81.

EcoReference No.: 16601

Chemical of Concern: HCCH,DU,ACAC; Habitat: A; Effect Codes: BCM,PHY; Rejection Code: LITE EVAL CODED(DCA,ACAC).

Janssen, C. R., Ferrando, M. D., and Persoone, G. (1994). Ecotoxicological Studies with the Freshwater Rotifer *Brachionus calyciflorus* IV. Rotifer Behavior as a Sensitive and Rapid Sublethal Test Criterion. *Ecotoxicol.Environ.Saf.* 28: 244-255.

EcoReference No.: 4748

Chemical of Concern: HCCH,Cu,NaPCP,DU; Habitat: A; Effect Codes: BEH; Rejection Code: LITE EVAL CODED(Cu,NaPCP,DCA),OK(HCCH).

Janssen, C. R., Persoone, G., and Snell, T. W. (1994). Cyst-Based Toxicity Tests. VIII. Short-Chronic Toxicity Tests with the Freshwater Rotifer *Brachionus calyciflorus*. *Aquat.Toxicol.* 28: 243-258.

EcoReference No.: 16572

Chemical of Concern: HCCH,CuS,PCP,DU; Habitat: A; Effect Codes: MOR,POP,REP; Rejection Code: LITE EVAL CODED(CuS,OW-TRV-Cu,PCP,DCA).

Johnson, I. and Delaney, P. (1998). Development of a 7-Day *Daphnia magna* Growth Test Using Image Analysis. *Bull.Environ.Contam.Toxicol.* 61: 355-362.

EcoReference No.: 19809

Chemical of Concern: Zn,DU,ZnS; Habitat: A; Rejection Code: LITE EVAL CODED(DCA,ZnS).

Kluttgen, B., Kuntz, N., and Ratte, H. T. (1996). Combined Effects of 3,4-Dichloroaniline and Food Concentration on Life-Table Data of Two Related Cladocerans, *Daphnia magna* and *Ceriodaphnia quadrangula*. *Chemosphere* 32: 2015-2028.

EcoReference No.: 16885

Chemical of Concern: DCA,DU; Habitat: A; Effect Codes: POP,REP,GRO,MOR; Rejection Code: LITE EVAL CODED(DCA).

Kolhe, S. S., Bhadauria, S. S., Mittra, B. N., and Tripathi, R. S. (1987). Comparative Efficiency of Different Herbicides in Controlling Weeds in Transplanted Paddy. *Trop.Agric.* 64: 287-290.

EcoReference No.: 104652

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

Kratky, B. A. and Warren, G. F. (1971). A Rapid Bioassay for Photosynthetic and Respiratory Inhibitors. *Weed Sci.* 19: 658-661.

EcoReference No.: 90523

Chemical of Concern: BMC,PPN,ATZ,TRB,LNR,NaN3; Habitat: AT; Effect Codes: MOR,POP,PHY; Rejection Code: LITE EVAL CODED(BMC,ATZ,PPN),OK(LNR,NaN3).

Kratky, B. A. and Warren, G. F. (1971). The Use of Three Simple, Rapid Bioassays on Forty-Two Herbicides. *Weed Res.* 11: 257-262.

EcoReference No.: 40616

Chemical of Concern:

EDT,SZ,24DC,ATZ,24DXY,ACR,BMC,BMN,BS,DBN,DCPA,DMB,LNR,PQT,TRB,TFN,PYZ,NaN3,PRO,EPTC,BSO,PPN; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(LNR,BMC,PRO,ATZ,SZ,PYZ,NaN3,PPN),NO ENDPOINT(BMC,BS,SZ,DMB,BSO),NO ENDPOINT,NO CONTROL(EPTC,24DXY,DCPA).

Kuehn, R. and Pattard, M. (1990). Results of the Harmful Effects of Water Pollutants to Green Algae (*Scenedesmus subspicatus*) in the Cell Multiplication Inhibition Test. *Water Res.* 24: 31-38 (OECDG Data File).

EcoReference No.: 2997

Chemical of Concern: NaBr,CdCl,K2Cr2O7,Ni,Cd,C8OH,DCB,SFL,TBTO,DU; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(TBTO,SFL,DCB,C8OH,NaBr,DCA).

Kuehn, R., Pattard, M., Pernak, K. D., and Winter, A. (1989). Results of the Harmful Effects of Water Pollutants to *Daphnia magna* in the 21 Day Reproduction Test. *Water Res.* 23: 501-510 (OECDG Data File).

EcoReference No.: 847

Chemical of Concern: NaBr,Cd,C8OH,Ni,DCB,SFL,TBTO,DU; Habitat: A; Effect Codes: REP,MOR; Rejection Code: LITE EVAL CODED(TBTO,SFL,DCA).

Lange, M., Gebauer, W., Markl, J., and Nagel, R. (1995). Comparison of Testing Acute Toxicity on Embryo of Zebrafish, *Brachydanio rerio* and RTG-2 Cytotoxicity as Possible Alternatives to the Acute Fish Test. *Chemosphere* 30: 2087-2102.

EcoReference No.: 16033

Chemical of Concern: UREA,NaCl,DCA,DU; Habitat: A; Effect Codes: MOR,GRO,PHY; Rejection Code: LITE EVAL CODED(DCA),OK(UREA),NO COC(CBL,MLN).

Li, W. M., Yin, D. Q., Zhou, Y., Hu, S. Q., and Wang, L. S. (2003). 3,4-Dichloroaniline-Induced Oxidative Stress in Liver of Crucian Carp (*Carassius auratus*). *Ecotoxicol.Environ.Saf.* 56: 251-255.

EcoReference No.: 72558

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

Maas-Diepeveen, J. L. and Van Leeuwen, C. J. (1986). Aquatic Toxicity of Aromatic Nitro Compounds and Anilines to Several Freshwater Species. *Laboratory for Ecotoxicology, Institute for Inland Water Management and Waste Water Treatment, Report No.86-42:10 p.(DUT)*.

EcoReference No.: 5375

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Mallett, M. J., Grandy, N. J., and Lacey, R. F. (1997). Interlaboratory Comparison of a Method to Evaluate the Effects of Chemicals on Fish Growth. *Environ.Toxicol.Chem.* 16: 528-533.

EcoReference No.: 17587

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Maltby, L., Naylor, C., and Calow, P. (1990). Effect of Stress on a Freshwater Benthic Detritivore: Scope for Growth in Gammarus pulex. *Ecotoxicol.Environ.Saf.* 19: 285-291.

EcoReference No.: 75826

Chemical of Concern: ZnS,NH,DCA; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(ZnS,DCA,NH).

Mansour, S. A. and Mohsen, E. R. (1985). Pesticides and Beneficial Organisms II. The Response of Two Fish Species to Certain Herbicides. *Pesticides* 19: 43-44.

EcoReference No.: 11531

Chemical of Concern: MLT,TFN,PAQT,PPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MLT,PPN).

Maule, A. and Wright, S. J. L. (1984). Herbicide Effects on the Population Growth of Some Green Algae and Cyanobacteria. *J.Appl.Bacteriol.* 57: 369-379.

EcoReference No.: 12028

Chemical of Concern: ATZ,MCPA,DU,PPN,GYP; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(ATZ,GYP,DU,PPN).

Mayer, P., Frickmann, J., Christensen, E. R., and Nyholm, N. (1998). Influence of Growth Conditions on the Results Obtained in Algal Toxicity Tests. *Environ.Toxicol.Chem.* 17: 1091-1098.

EcoReference No.: 19285

Chemical of Concern: ATZ,DCA,Cr,DU; Habitat: A; Effect Codes: POP,BCM; Rejection Code: LITE EVAL CODED(ATZ,DCA).

McMillan, D. C., Leakey, J. E. A., Arlotto, M. P., McMillan, J. M., and Hinson, J. A. (1990). Metabolism of the Arylamide Herbicide Propanil. II. Effects of Propanil and Its Derivatives on Hepatic Microsomal Drug-Metabolizing Enzymes in the Rat. *Toxicol.Appl.Pharmacol.* 103: 102-112.

EcoReference No.: 102075

Chemical of Concern: DCA,TCDD,PPN; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(DCA).

McMillan, D. C., McRae, T. A., and Hinson, J. A. (1990). Propanil-Induced Methemoglobinemia and Hemoglobin Binding in the Rat. *Toxicol.Appl.Pharmacol.* 105: 503-507.

EcoReference No.: 104568

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

Mitsou, K., Koulilianou, A., Lambropoulou, D., Pappas, P., Albanis, T., and Lekka, M. (2006). Growth Rate Effects, Responses of Antioxidant Enzymes and Metabolic Fate of the Herbicide Propanil in the Aquatic Plant *Lemna minor*. *Chemosphere* 62: 275-284 .

EcoReference No.: 95916

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

Monsanto Co. (1983). Acute Toxicity of ACD to *Daphnia magna*. *EPA/OTS Doc.#878211019* 29 p. (NTIS/OTS 0206222).

EcoReference No.: 104276

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

Monsanto Co. (1983). Acute Toxicity of ACD to Fathead Minnows (*Pimephales promelas*). *EPA/OTS Doc.#878211017* 44 p. (NTIS/OTS 0206222).

EcoReference No.: 104277

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

Monsanto Co. (1983). Acute Toxicity of ACD to Rainbow Trout (*Salmo gairdneri*). *EPA/OTS Doc.#878211018* 32 p. (NTIS/OTS 0206222) .

EcoReference No.: 104278

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

Monsanto Co. (1983). Dynamic Toxicity of ACD to Fathead Minnows (*Pimephales promelas*). *EPA/OTS Doc.#878211021* 130 p. (NTIS/OTS 0206222).

EcoReference No.: 104279

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

Monteiro, M., Quintaneiro, C., Pastorinho, M., Pereira, M. L., Morgado, F., Guilhermino, L., and Soares, A. M. V. M. (2006). Acute Effects of 3,4-Dichloroaniline on Biomarkers and Spleen Histology of the Common Goby *Pomatoschistus microps*. *Chemosphere* 62: 1333-1339.

EcoReference No.: 96032

Chemical of Concern: DCA; Habitat: A; Effect Codes: BCM,CEL,MOR; Rejection Code: LITE EVAL CODED(DCA).

Moore, M. T., Pierce, J. R., Milam, C. D., Farris, J. L., and Winchester, E. L. (1998). Responses of Non-target Aquatic Organisms to Aqueous Propanil Exposure. *Bull.Environ.Contam.Toxicol.* 61: 169-174.

EcoReference No.: 19808

Chemical of Concern: PPN; Habitat: A; Rejection Code: LITE EVAL CODED(PPN).

Moraes, B. S., Loro, V. L., Glusczak, L., Pretto, A., Menezes, C., Marchezan, E., and De oliveira Machado, S. (2007). Effects of Four Rice Herbicides on Some Metabolic and Toxicology Parameters of Teleost Fish (*Leporinus obtusidens*). *Chemosphere* 68: 1597-1601.

EcoReference No.: 93324

Chemical of Concern: QNC,MTSM,PPN,CMZ; Habitat: A; Effect Codes: BCM; Rejection Code: LITE

EVAL CODED(CMZ,QNC,PPN).

Nagel, R., Bresch, H., Caspers, N., Hansen, P. D., Markert, M., Munk, R., Scholz, N., and Ter Hofte, B. B. (1991). Effect of 3,4-Dichloroaniline on the Early Life Stages of the Zebrafish (*Brachydanio rerio*): Results of a Comparative Laboratory Study. *Ecotoxicol.Environ.Saf.* 21: 157-164.

EcoReference No.: 379

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Naylor, C. and Howcroft, J. (1997). Sediment Bioassays with *Chironomus riparius*: Understanding the Influence of Experimental Design on Test Sensitivity. *Chemosphere* 35: 1831-1845.

EcoReference No.: 18394

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Neville, C. (1995). Interpretation of Data from Short-Term Growth Tests Using the Sacfry to Early Swim-Up Life Stage of Rainbow Trout. In: *G.F.Westlake, J.L.Parrott, and A.J.Niimi (Eds.), Proc.21st Annual Aquatic Toxicity Workshop, Oct.3-5, 1994, Sarnia, Ontario, Can.Tech.Rep.Fish.Aquat.Sci.No.2050* 52-54 (ABS).

EcoReference No.: 18798

Chemical of Concern: Cu,DU; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(Cu,DCA).

Neville, C. M. (1995). Short-Term Early Life Stage Growth Test Using Sacfry and Early Swim-Up Stages of Rainbow Trout (*Oncorhynchus mykiss*): Method Development; Protocol. *Ontario Ministry of the Environment & Energy, Toronto, Ontario* 27 p.(U.S.NTIS MIC-95-08185).

EcoReference No.: 17849

Chemical of Concern: CuS,DU; Habitat: A; Effect Codes: BEH,GRO,MOR,PHY,ACC; Rejection Code: LITE EVAL CODED(CuS,DCA).

Oda, S., Tatarazako, N., Dorgerloh, M., Johnson, R. D., Kusk, K. O., Leverett, D., Marchini, S., Nakari, T., Williams, T., and Iguchi, T. (2007). Strain Difference in Sensitivity to 3,4-Dichloroaniline and Insect Growth Regulator, Fenoxycarb, in *Daphnia magna*. *Ecotoxicol.Environ.Saf.* 67: 399-405.

EcoReference No.: 102058

Chemical of Concern: DCA,FYC; Habitat: A; Effect Codes: PHY,REP; Rejection Code: OK(FYC),LITE EVAL CODED(DCA).

Pandey, A. K. (1999). Evaluation of Pesticides for Possible Mutagenesis in the Cyanobacterium *Nostoc calcicola*. *Indian J.Environ.Health* 41: 1-5.

EcoReference No.: 89877

Chemical of Concern: PPN,MLN,DU,24D,PCH,ATZ; Habitat: A; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(ATZ,MLN,24D,DU,PPN).

Pedersen, F., Bjørnstad, E., Vulpius, T., and Rasmussen, H. B. (1998). Immobilisation Test of Aniline Compounds with the Crustacean *Daphnia magna*. *Proj.No.303587, Report to the Danish EPA, Copenhagen, Denmark* 93 p.

EcoReference No.: 55961

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Pereira, J. L., Mendes, C. D., and Goncalves, F. (2007). Short- and Long-Term Responses of *Daphnia* spp. to Propanil Exposures in Distinct Food Supply Scenarios. *Ecotoxicol.Environ.Saf.* 68: 386-396.

EcoReference No.: 104575

Chemical of Concern: PPN; Habitat: A; Effect Codes: MOR,GRO,REP; Rejection Code: LITE EVAL CODED(PPN).

Perschbacher, P. W., Ludwig, G. M., and Slaton, N. (2002). Effects of Common Aerially Applied Rice Herbicides on the Plankton Communities of Aquaculture Ponds. *Aquaculture* 214: 241-246.

EcoReference No.: 71507

Chemical of Concern: DMDP,CMZ,TBC,PDM,PPN,HSF,QNC,BSFM,TPRT,MLT; Habitat: A; Effect Codes: SYS,POP; Rejection Code: LITE EVAL CODED(PPN,PDM,DMDP,TPRT,TBC),OK(CMZ,QNC,MLT).

Prescott, L. M. and Olson, D. L. (1972). The Effect of Pesticides on the Soil Amoeba *Acanthamoeba castellanii* (Neff). *Proc.South D.Acad.Sci.* 51: 136-141.

EcoReference No.: 60074

Chemical of Concern: DDT,24DXY,ATZ,EPTC,PPN; Habitat: A; Effect Codes: POP,REP; Rejection Code: LITE EVAL CODED(EPTC,ATZ),LITE EVAL CODED(24DXY,PPN),OK(DDT).

Randhawa, K. S., Sandhu, K. S., and Chahal, V. P. S. (1979). Effect of Different Herbicides on Rhizosphere Soil Bacteria, Actinomycetes and Fungi in Chemical Weed Control Studies in Onion (*Allium cepa* L.). *Pesticides* 13: 25-28.

EcoReference No.: 95402

Chemical of Concern: ACR,PPN,LNR; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(PPN),NO ENDPOINT(LNR),OK(ACR).

Rao, K. N. and Gupta, K. M. (1982). Studies on Weed Control in Rice with Herbicides. *Pesticides* 16: 19-21.

EcoReference No.: 98113

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

Rose, R. M., Warne, M. S. J., and Lim, R. P. (2001). The Presence of Chemicals Exuded by Fish Affects the Life-History Response of *Ceriodaphnia* cf. *dubia* to Chemicals with Different Mechanisms of Action. *Environ.Toxicol.Chem.* 20: 2892-2898.

EcoReference No.: 60979

Chemical of Concern: CPY,FYC,DCA; Habitat: A; Effect Codes: REP,MOR,GRO; Rejection Code: LITE EVAL CODED(CPY,FYC,DCA).

Rose, R. M., Warne, M. S. J., and Lim, R. P. (2002). Residual Effects of 3,4-Dichloroaniline on Offspring Born to *Ceriodaphnia* cf. *dubia* Exposed for Multiple Generations. *J.Aquat.Ecosyst.Stress Recovery* 9: 205-211.

EcoReference No.: 81856

Chemical of Concern: DCA; Habitat: A; Effect Codes: POP,REP; Rejection Code: LITE EVAL CODED(DCA).

Rose, R. M., Warne, M. S. J., and Lim, R. P. (2004). Sensitivity of Offspring to Chronic 3,4-Dichloroaniline Exposure Varies with Maternal Exposure. *Ecotoxicol.Environ.Saf.* 58: 405-412.

EcoReference No.: 102071

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

Rose, R. M., Warne, M. St. J., and Lim, R. P. (2002). Food Concentration Affects the Life History Response of

Ceriodaphnia cf. dubia to Chemicals with Different Mechanisms of Action. *Ecotoxicol.Environ.Saf.* 51: 106-114.

EcoReference No.: 65825

Chemical of Concern: CPY,FYC; Habitat: A; Effect Codes: REP,MOR,POP; Rejection Code: LITE EVAL CODED(CPY,FYC).

Salazar, K. D., De la Rosa, P., Barnett, J. B., and Schafer, R. (2005). The Polysaccharide Antibody Response After Streptococcus pneumoniae Vaccination is Differentially Enhanced or Suppressed by 3,4-Dichloropropionanilide and 2,4-Dichlorophenoxyacetic Acid. *Toxicol.Sci.* 87: 123-133.

EcoReference No.: 80618

Chemical of Concern: PPN,DMDP; Habitat: T; Effect Codes: PHY,CEL,GRO; Rejection Code: LITE EVAL CODED(DMDP,PPN),NO COC(DPP1).

Salazar, K. D., Miller, M. R., Barnett, J. B., and Schafer, R. (2006). Evidence for a Novel Endocrine Disruptor: The Pesticide Propanil Requires the Ovaries and Steroid Synthesis to Enhance Humoral Immunity. *Toxicol.Sci.* 93: 62-74.

EcoReference No.: 105489

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

Samel, A., Ziegenfuss, M., Goulden, C. E., Banks, S., and Baer, K. N. (1999). Culturing and Bioassay Testing of Daphnia magna Using Elendt M4, Elendt M7, and COMBO Media. *Ecotoxicol.Environ.Saf.* 43: 103-110.

EcoReference No.: 20249

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Santillo, M., Rippa, C., Della Morte, R., Villani, G. R. D., Santangelo, F., Staiano, N., and Mondola, P. (1995). Enhancement of Tissue Lipoperoxidation in Propanil-Treated Rats. *Toxicol.Lett.* 78: 215-218.

EcoReference No.: 104570

Chemical of Concern: PPN; Habitat: T; Effect Codes: BCM,CEL; Rejection Code: LITE EVAL CODED(PPN).

Sardo, A. M., Azeiteiro, U. M., Pereira, L., Morgado, F., and Soares, A. M. V. M. (2005). Histological Evaluation of the Exposure to 3,4-Dichloroaniline in the Estuarine mysid Mesopodopsis slabberi, Under Experimental Conditions. *Fresenius Environ.Bull.* 14: 579-583.

EcoReference No.: 102592

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,CEL; Rejection Code: LITE EVAL CODED(DCA).

Schafer, H., Hettler, H., Fritsche, U., Pitzen, G., Roderer, G., and Wenzel, A. (1994). Biotests Using Unicellular Algae and Ciliates for Predicting Long-Term Effects of Toxicants. *Ecotoxicol.Environ.Saf.* 27: 64-81.

EcoReference No.: 4008

Chemical of Concern: ATZ,HCCH,MP,BMC,DU,CuS,PCP,Cd,12DPA,DPDP; Habitat: A; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(12DPA,BMC,ATZ,CuS,PCP,MP,DU),OK(HCCH,Cd).

Schafer, H., Wenzel, A., Fritsche, U., Roderer, G., and Traunsपुरger, W. (1993). Long-Term Effects of Selected Xenobiotica on Freshwater Green Algae: Development of a Flow-Through Test System. *Sci.Total Environ. Suppl.*: 735-740.

EcoReference No.: 4335

Chemical of Concern: ATZ,HCCH,MP,CuS,PCP,Cd,12DPA,DPDP,DU; Habitat: A; Effect Codes: POP,ACC; Rejection Code: LITE EVAL CODED(12DPA,ATZ,CuS,OW-TRV-Cu,PCP,MP,DU),OK(HCCH,Cd).

Schafers, C. and Nagel, R. (1993). Consequences of 3,4-Dichloroaniline to Guppy Populations (*Poecilia reticulata*): Computer Simulation and Experimental Validation. *Sci.Total Environ. Suppl.*: 1471-1478.

EcoReference No.: 4328

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Schafers, C. and Nagel, R. (1993). Toxicity of 3,4-Dichloroaniline to Perch (*Perca fluviatilis*) in Acute and Early Life Stage Exposures. *Chemosphere* 26: 1641-1651.

EcoReference No.: 8323

Chemical of Concern: DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (2000). 3,4-Dichloroaniline: Acute Toxicity to *Daphnia magna* and *Selenastrum capricornutum* - Submission of Lists and Copies of Health and Safety Studies (47 FR 38780). *EPA/OTS Doc.#40-8376326* 17 p. (NTIS/OTS 0516826).

EcoReference No.: 102281

Chemical of Concern: DCA; Habitat: A; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (1983). 3,4-Dichloroaniline: Acute Toxicity to *Daphnia magna* and *Selenastrum capricornutum* with Cover Letter. *EPA/OTS Doc.#878213827* 16 p. (NTIS/OTS 0206321).

EcoReference No.: 104197

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (1983). 3,4 Dichloroaniline: Chronic Toxicity to *Daphnia magna*. *EPA/OTS Doc.#878213828* 27 p. (NTIS/OTS 0206321) .

EcoReference No.: 104198

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,REP,GRO; Rejection Code: LITE EVAL CODED(DCA),NO COC(DU).

Shell Oil Co. (2000). 3,4-Dichloroaniline: Chronic Toxicity to *Daphnia magna* - Submission of Lists and Copies of Health and Safety Studies (FR 47 38780). *EPA/OTS Doc.#40-8376327* 28 p. (NTIS/OTS 0516827).

EcoReference No.: 102280

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,REP,GRO; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (2000). The Chronic Toxicity of 3,4-Dichloroaniline to Algae, Invertebrates and Fish in Outdoor Ponds with Cover Letter Dated 103086. *EPA/OTS Doc.#86870000019* 40 p. (NTIS/OTS 0513365).

EcoReference No.: 102277

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

Shell Oil Co. (2000). The Effect of 3,4-Dichloroaniline on the Growth of Rainbow Trout, *Salmo gairdneri* with Cover Letter Dated 103086. *EPA/OTS Doc.#86870000027* 23 p. (NTIS/OTS 0513373).

EcoReference No.: 102278

Chemical of Concern: DCA; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (2000). Effects of 3,4-Dichloroaniline on the Growth Rate of Rainbow Trout, *Salmo gairdneri* with Cover Letter Dated 103086. *EPA/OTS Doc.#86870000020* 29 p. (NTIS/OTS 0513366).

EcoReference No.: 102276

Chemical of Concern: DCA; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (1985). Effects of Copper Chloride, Potassium Dichromate, 3,4-Dichloroaniline, Nonylphenol Ethoxylate and Phenol on the Growth Rate of Populations of *Hydra littoralis* with Cover Letter. *EPA/OTS Doc.#878214955* 13 p. (NTIS/OTS 0206734).

EcoReference No.: 102275

Chemical of Concern: CuCl,DCA,PL,Cr; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (1984). Field Validation of the Chronic Toxicity of 3,4-Dichloroaniline to Populations of *Daphnia*. *EPA/OTS Doc.#878214183* 38 p. (NTIS/OTS 0206490).

EcoReference No.: 104280

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(DCA),NO COC(DU).

Shell Oil Co. (1992). Initial Submission: An Early Life Stage Test with 3,4-Dichloroaniline in the Fathead Minnow (*Pimephales promelas*) with Cover Letter Dated 052892. *EPA/OTS Doc.#88-920003418* 28 p. (NTIS/OTS0540069).

EcoReference No.: 102328

Chemical of Concern: DCA; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(DCA).

Shell Oil Co. (1992). Initial Submission: Chronic Toxicity of 3,4-Dichloroaniline in Populations of *Daphnia* with Attachments and Cover Letter Dated 053092. *EPA/OTS Doc.#88-920003445* 42 p. (NTIS/OTS 0537404) .

EcoReference No.: 102273

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

Shell Oil Co. (1992). Initial Submission: Chronic Toxicity Study with 3,4-Dichloroaniline in Algae, Invertebrates, and Fish in Outdoor Ponds with Cover Letter Dated 053092. *EPA/OTS Doc.#88-920003377* 36 p. (NTIS/OTS0540028).

EcoReference No.: 102329

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

Shell Oil Co. (2000). Letter from Shell Oil Company to U.S.EPA Submitting Enclosed Health and Safety Study on Sulfolane and N-Butyl Glycidyl Ether with Attachments and Cover Sheet. *EPA/OTS Doc.#86-920000472* 46 p. (NTIS/OTS 0533761).

EcoReference No.: 102274

Chemical of Concern: DCA,CYP; Habitat: A; Effect Codes: PHY; Rejection Code: OK(CYP),LITE EVAL CODED(DCA).

Shell Oil Co. (2000). Toxicity Tests with *Daphnia magna*: Acute Toxicity of Five Test Materials to a Newly-Introduced Strain of *D.magna* (Received October, 1984) with Cover Letter Dated 103086. *EPA/OTS Doc #8687000021* 16 p. (NTIS/OTS 0513367).

EcoReference No.: 91919

Chemical of Concern: MP,K2Cr207,DCA; Habitat: A; Effect Codes: PHY,DU; Rejection Code: LITE EVAL CODED(MP,K2Cr207,DCA).

Shell Oil Co. (1987). Use of *Lemna perpusilla* for Phytotoxicity Tests. *EPA/OTS Doc.#86-870001654* 30 p. (NTIS/OTS 0515730).

EcoReference No.: 102279

Chemical of Concern: DCA,PL; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(DCA).

Singh, R. P., Singh, R. K., and Tiwari, D. N. (1986). Effect of Herbicides on the Composition of Cyanobacteria in Transplanted Rice. *Plant Prot.Q.* 1: 101-102.

EcoReference No.: 104528

Chemical of Concern: PPN,24D,BTC,TBC; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(PPN,24D,TBC).

Snell, T. W., Moffat, B. D., Janssen, C., and Persoone, G. (1991). Acute Toxicity Tests Using Rotifers IV. Effects of Cyst Age, Temperature, and Salinity on the Sensitivity of *Brachionus calyciflorus*. *Ecotoxicol.Environ.Saf.* 21: 308-317 (OECDG Data File).

EcoReference No.: 9385

Chemical of Concern:

24DXY,CPY,NaPCP,NHCl,Se,FNT,TOL,CF,BZ,Cu,TCF,PL,TBT,HgCl2,Ni,Al,Pb,Ag,Cd,Zn,AMSV,DU; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(24DXY,CPY,Cu,OW-TRV-Cu,NaPCP,AMSV,DCA,Zn,TCF,FNT).

Soares, A. M. V. M., Baird, D. J., and Calow, P. (1992). Interclonal Variation in the Performance of *Daphnia magna* Straus in Chronic Bioassays. *Environ.Toxicol.Chem.* 11: 1477-1483.

EcoReference No.: 5857

Chemical of Concern: NaBr,DCA,DU; Habitat: A; Effect Codes: REP; Rejection Code: LITE EVAL CODED(NaBr,DCA).

Sosak-Swidarska, B., Tyrawska, D., and Maslikowska, B. (1998). Microalgal Ecotoxicity Test with 3,4-Dichloroaniline. *Chemosphere* 37: 2975-2982.

EcoReference No.: 15651

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Still, C. C., Hsu, T. S., and Bartha, R. (1924). Soil-Bound 3,4-Dichloroaniline: Source of Contamination in Rice Grain. *Bull.Environ.Contam.Toxicol.* 24: 550-554.

EcoReference No.: 102137

Chemical of Concern: DCA; Habitat: T; Effect Codes: ACC; Rejection Code: LITE EVAL CODED(DCA).

Taylor, E. J., Maund, S. J., Bennett, D., and Pascoe, D. (1994). Effects of 3,4-Dichloroaniline on the Growth of Two Freshwater Macroinvertebrates in a Stream Mesocosm. *Ecotoxicol.Environ.Saf.* 29: 80-85.

EcoReference No.: 4984

Chemical of Concern: DCA,DU; Habitat: A; Rejection Code: LITE EVAL CODED(DCA).

Tucker, C. S. (1987). Short-Term Effects of Propanil on Oxygen Production by Plankton Communities from Catfish Ponds. *Bull.Environ.Contam.Toxicol.* 39: 245-250.

EcoReference No.: 12601

Chemical of Concern: PPN; Habitat: A; Effect Codes: SYS; Rejection Code: LITE EVAL CODED(PPN)//NO SPECIES,COC(PCB),RESIDUE.

Van der Meer, C., Teunissen, C., and Boog, T. F. M. (1988). Toxicity of Sodium Chromate and 3,4-Dichloroaniline to Crustaceans. *Bull.Environ.Contam.Toxicol.* 40: 204-211 (OECDG Data File).

EcoReference No.: 2419

Chemical of Concern: DU,DCA; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(DCA).

Van Gestel, C. A. M. and Van Dis, W. A. (1988). The Influence of Soil Characteristics on the Toxicity of Four Chemicals to the Earthworm *Eisenia fetida andrei* (Oligochaeta). *Biol.Fertil.Soils* 6: 262-265 (OECDG Data File).

EcoReference No.: 40550

Chemical of Concern: Cd,PCP,DCA,DU; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(PCP,DCA),OK(Cd),OK(EcoSSL).

Villarroel, M. J., Sancho, E., Ferrando, M. D., and Andreu, E. (2003). Acute, Chronic and Sublethal Effects of the Herbicide Propanil on *Daphnia magna*. *Chemosphere* 53: 857-864.

EcoReference No.: 72572

Chemical of Concern: PPN; Habitat: A; Effect Codes: MOR,REP,GRO,BEH; Rejection Code: LITE EVAL CODED(PPN).

Voelker, D., Stetefeld, N., Schirmer, K., and Scholz, S. (2008). The Role of cyp1a and Heme Oxygenase 1 Gene Expression for the Toxicity of 3,4-Dichloroaniline in Zebrafish (*Danio rerio*) Embryos. *Aquat.Toxicol.* 86: 112-120.

EcoReference No.: 102052

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

Voelker, D., Vess, C., Tillmann, M., Nagel, R., Otto, G. W., Geisler, R., Schirmer, K., and Scholz, S. (2007). Differential Gene Expression as a Toxicant-Sensitive Endpoint in Zebrafish Embryos and Larvae. *Aquat.Toxicol.* 81: 355-364.

EcoReference No.: 102053

Chemical of Concern: DCA; Habitat: A; Effect Codes: CEL,GRO; Rejection Code: LITE EVAL CODED(DCA).

Voronova, L. D. and Pushkar, I. G. (1985). Evaluating the Impacts of Agricultural Pesticides and Herbicides on Aquatic Biota. In: P.M.Mehrle,Jr., R.H.Gray, and R.L.Kendall (Eds.), *Toxic Substances in the Aquatic Environment: An International Aspect, Int.Symp.held in Conjunct.of the 112th Annu.Meet.of the Am.Fish.Soc., Sept.24, 1982, Hilton Head, SC, Am.Fish.Soc., Bethesda, MD* 23-28.

EcoReference No.: 74245

Chemical of Concern: MLT,PPN; Habitat: A; Effect Codes: GRO,MOR,REP; Rejection Code: LITE EVAL CODED(MLT,PPN).

Walker, T. W. and Meek, C. L. (1987). Long Term Effects of Riceland Agrichemicals on Postparasites and Adults of *Romanomermis culicivorax* (Nematoda: Mermithidae). *J.Entomol.Sci.* 22: 302-306.

EcoReference No.: 91543

Chemical of Concern: MLT,UREA,CBF,NHS04,MP,BMY,PPN,24DXY; Habitat: T; Effect Codes: MOR,BEH; Rejection Code: LITE EVAL CODED(PPN),NO MIXTURE(MP,BMY,UREA,CBF,24DXY).

Watson, V. A., Barnett, J. B., and Schafer, R. (2000). In Vivo Cytokine Production and Resistance to Infection After Acute Exposure to 3,4-Dichloropropionaniline. *J.Toxicol.Environ.Health Part A* 60: 391-406.

EcoReference No.: 104571

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

Xie, Y. C., Schafer, R., and Barnett, J. B. (1997). The Immunomodulatory Effects of the Herbicide Propanil on Murine Macrophage Interleukin-6 and Tumor Necrosis Factor-alpha Production. *Toxicol.Appl.Pharmacol.* 145: 184-191.

EcoReference No.: 104572

Chemical of Concern: PPN; Habitat: T; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(PPN).

Zhao, W., Schafer, R., and Barnett, J. B. (1998). Cytokine Production by C57BL/6 Mouse Spleen Cells is Selectively Reduced by Exposure to Propanil. *J.Toxicol.Environ.Health Part A* 55: 107-120.

EcoReference No.: 104574

Chemical of Concern: PPN; Habitat: T; Effect Codes: CEL,BCM; Rejection Code: LITE EVAL CODED(PPN).

Zhao, W., Schafer, R., Cuff, C. F., Gandy, J., and Barnett, J. B. (1995). Changes in Primary and Secondary Lymphoid Organ T-Cell Subpopulations Resulting from Acute In Vivo Exposure to Propanil. *J.Toxicol.Environ.Health* 46: 171-181.

EcoReference No.: 104573

Chemical of Concern: PPN; Habitat: T; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(PPN).