

## APPENDIX H.

### ECOTOX Bibliography 2010 Refresh Query<sup>1</sup>

#### 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)

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<sup>1</sup> Please also see Appendix L of the 2008 California Red-legged Frog Risk Assessment for a list of papers from a similar query in 2008, <http://www.epa.gov/espp/litstatus/effects/redleg-frog/index.html#eptc>.

- 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.

### **Papers that Were Accepted in 2010 Refresh:**

#### **Acceptable to EcoTox and to OPP**

Kremer, R. J. and Schulte, L. K. (1989). Influence of Chemical Treatment and Fusarium oxysporum on Velvetleaf (*Abutilon theophrasti*). *Weed Technol.* 3: 369-374.

EcoReference No.: 106960

Chemical of Concern: BTY,CBF,EPTC,TFN,KNO3,NaN3,EPH,GIB; Habitat: T; Effect Codes: GRO,MOR,PHY,POP; Code: LITE EVAL CODED(EPH,CBF,BTY,TFN,EPTC,KNO3),TARGET(NaN3).

Rao, B. H. K. and Prasad, S. K. (1969). Effect of Some Herbicides on Reniform Nematode, *Rotylenchulus reniformis* Infesting Tomato. *Indian J.Entomol.* 31: 370-372.

EcoReference No.: 72021

Chemical of Concern: EPTC,24D,MCPB; Habitat: T; Effect Codes: REP,POP; Code: LITE EVAL CODED(MCPB,24D,EPTC).

Santiago, L. P. and Recometa, R. D. (1981). Bio-Assay: Evaluation of Three Agricultural Herbicides on the Survival of Nile Tilapia (*Tilapia nilotica*) and Crucian Carp (*Carassius carassius* Anon) Fingerlings. *In: Tech.Rep.No.20, Freshwater Aquacult.Cent., Cent.Luzon State Univ.:* 19-29.

EcoReference No.: 4651

Chemical of Concern: TFN,EPTC; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(EPTC,TFN).

### **Papers that Were not Accepted in 2010 Refresh:**

#### **Acceptable to EcoTox but not to OPP**

Anderson, L. D. and Atkins, E. L. Jr. (1966). 1965 Research on the Effect of Pesticides on Honey Bees. *Am.Bee J.* 106: 206-208.

EcoReference No.: 104767

Chemical of Concern:

MLN,PRT,TVP,TCF,AZ,CBL,CBF,PRN,DDT,OXD,EPTC,TBF,DMB,CAP; Habitat: T; Effect Codes: MOR,POP; Code: NO DURATION(CBF,AZ,CBL,OXD,EPTC,TBF,DMB,CAP),NO ENDPOINT(MLN,TVP,PRT,TCF).

Ashton, F. M., Devilliers, O. T., Glenn, R. K., and Duke, W. B. (1977). Localization of Metabolic Sites of

Action on Herbicides . *Pestic.Biochem.Physiol.* 7: 122-141.

EcoReference No.: 42644

Chemical of Concern: 24DXY,ATZ,BMC,DBN,TFN,PAQT,EPTC,PQT; Habitat: T; Effect Codes: PHY,CEL,BCM; Code: NO CONTROL,NO ENDPOINT(24DXY,ATZ,BMC,DBN,TFN,PAQT,EPTC,PQT).

Bandeen, J. D., Jones, G. E., and Switzer, C. M. (1960). An Investigation of the Effects of Various Methods of Herbicide Application on Weed Control in Sugar Beets. *J.Am.Sug.T.* 11: 151-154.

EcoReference No.: 42637

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Buchanan, G. A. and Howeland, L. S. (1971). Tolerance of Yuchi Arrowleaf Clover to Herbicides. *Weed Sci.* 19: 254-256.

EcoReference No.: 41860

Chemical of Concern: EPTC,DCPA; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC,DCPA).

Burnside, O. C. and Schultz, M. E. (1978). Soil Persistence of Herbicides for Corn, Sorghum, and Soybeans During the Year of Application. *Weed Sci.* 26: 108-115.

EcoReference No.: 116317

Chemical of Concern: ACR,ATZ,BTY,CZE,EPTC,DMB,MBZ,PCH,LNR,PDM; Habitat: T; Effect Codes: POP; Code: TARGET(ACR,ATZ,DMB,PDM),NO MIXTURE(BTY,EPTC,MBZ,PCH,LNR).

Butler, P. A. (1963). Commercial Fisheries Investigations. *In: Circ.No.167, Fish Wildl.Serv., Washington, DC* 11-25.

EcoReference No.: 2188

Chemical of Concern:  
AZ,CBL,DZ,HCCH,MLN,Naled,PSM,24DXY,DS,DU,PEB,Folpet,RTN,FBM,CHD,DEM,TXP,MRX,ETN,AND,MCPA,HPT,DDT,DDVP,EN,CBL,MXC,OXD,EPTC,ES,TCF,PPX,MCB; Habitat: A; Effect Codes: NOC,GRO,MOR,BEH,PHY; Code: NO CONTROL(AZ,HCCH,PEB,Folpet,RTN,FBM,CHD,DEM,TXP,MRX,ETN,AND,MCPA,HPT,DDT,EN,MXC),NO CONTROL,NO ENDPOINT(EPTC,PSM,DS,24DXY,OXD,MLN,DZ,DU,Naled,DDVP,ES,TCF,PPX,MCB,CBL).

Butler, P. A. (1964). Commercial Fishery Investigations. *IPesticide-Wildlife Studies, 1963, U.S.D.I., Fish and Wildl.Serv.,Circ.199* 28 p. (Author Communication Used).

EcoReference No.: 646

Chemical of Concern:  
AZ,DS,HCCH,MLN,MP,Naled,PRT,24DXY,CMPH,DDVP,DMT,DU,PEB,PSM,NTP,TXP,CBL,TBF,EPTC,TMP,TVPM,DCTP,DCPA,ES,TCF,FNT,PQT,PPX,DQTBr,MCB; Habitat: A; Effect Codes: BEH,POP,MOR,GRO,ACC,SYS; Code: LITE EVAL CODED(MLN,PRT,ES),NO CONTROL(PSM,DS,MP,Naled,TMP,DU,MCB),NO ENDPOINT(DMT),NO CONTROL,NO ENDPOINT(EPTC,24DXY,TBF,CMPH,TVPM,DCTP,DCPA,DDVP,TCF,FNT,PQT,PPX,DQTBr).

Casida, J. E., Kimmel, E. C., Ohkawa, H., and Ohkawa, R. (1975). Sulfoxidation of Thiocarbamate Herbicides and Metabolism of Thiocarbamate Sulfoxides in Living Mice and Liver Enzyme Systems. *Pestic.Biochem.Physiol.* 5: 1-11.

- EcoReference No.: 106154  
Chemical of Concern: TBC,CYC,PEB,VNT,BTY,EPTC,MLT; Habitat: T; Effect Codes: ACC,BCM; Code: NO ENDPOINT,NO CONTROL(BTY,EPTC,MLT,TBC).
- Cole, A. W. and Coats, G. E. (1973). Tall Morningglory Germination Response to Herbicides and Temperature. *Weed Sci.* 21: 443-446.
- EcoReference No.: 41496  
Chemical of Concern: ATZ,BMC,DU,SZ,MBZ,TRB,TFN,EPTC,NPM,DCPA,PZM; Habitat: T; Effect Codes: REP,GRO; Code: TARGET(SZ),NO CONTROL,NO ENDPOINT(EPTC,PZM,BMC,DU,ATZ,TFN).
- Day, B. E., McCarty, C. D., and Jordan, L. S. (1962). Dalapon, Amitrole, and Weed Oil Compared for Effectiveness in Control of Bermudagrass in California Citrus Orchards. *Hilgardia* 32: 207-227.
- EcoReference No.: 42076  
Chemical of Concern: SZ,AMTL,EPTC,PRO,MLH,DQTBr; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(SZ,AMTL,PRO),NO CONTROL,NO ENDPOINT(EPTC,MLH,DQTBr).
- El Antably, H. M. M. and Risk, T. Y. (1977). The Effect of EPTC on the Bud Dormancy of Purple Nutsedge. *Z.Pflanzenphysiol.* 84: 189-194.
- EcoReference No.: 43911  
Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).
- Ezra, G., Dekker, J. H., and Stephenson, G. R. (1985). Tridiphane as a Synergist for Herbicides in Corn (*Zea mays*) and Proso Millet (*Panicum miliaceum*). *Weed Sci.* 33: 287-290.
- EcoReference No.: 44216  
Chemical of Concern: ATZ,ACR,EPTC; Habitat: T; Effect Codes: GRO; Code: NO ENDPOINT(ATZ),NO CONTROL,NO ENDPOINT(EPTC,ACR).
- Fawcett, R. S. and Slife, F. W. (1975). Germination Stimulation Properties of Carbamate Herbicides. *Weed Sci.* 23: 419-424.
- EcoReference No.: 41713  
Chemical of Concern: EPTC,BTY; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC,BTY).
- Fox, P. M. and Thurston, R. (1966). The Effects of 1-Naphthyl-N-Methylcarbamate on Germinating Tobacco Seeds. *Bot.Gaz.* 127: 70-74.
- EcoReference No.: 42386  
Chemical of Concern: CBL,EPTC; Habitat: T; Effect Codes: REP,GRO; Code: NO ENDPOINT(EPTC,CBL).
- Frear, D. E. H. and Boyd, J. E. (1967). Use of *Daphnia magna* for the Microbioassay of Pesticides. I. Development of Standardized Techniques for Rearing *Daphnia* and Preparation of Dosage-Mortality Curves for Pesticides. *J.Econ.Entomol.* 60: 1228-1236.
- EcoReference No.: 2820  
Chemical of Concern:  
FBM,PPHD,Zineb,DEM,TXP,DOD,PRO,ATZ,HPT,ETN,AND,Naled,PRT,MP,NaDC,Ziram,TH M,Captan,MLN,DCF,AZ,HPT,MXC,DMT,DDT,TCF,CMPH,PRN,HCCH,DLD,EN,ES,MTAS,PG,EPTC; Habitat: A; Effect Codes: MOR; Code: LITE EVAL

CODED(MTAS,AZ,PRO,ATZ,DMT,DOD,PRT),NO  
CONTROL(Ziram,EPTC,PPG,Naled,Captan,MLN,MP,CMPH,ES,TCF,DCF).

Gentner, W. A. (1966). The Influence of EPTC on External Foliage Wax Deposition. *Weeds* 14: 27-31.

EcoReference No.: 42342

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Gillette, L. A., Miller, D. L., and Redman, H. E. (1952). Appraisal of a Chemical Waste Problem by Fish Toxicity Tests. *Sewage Ind.Wastes* 24: 1397-1401.

EcoReference No.: 927

Chemical of Concern: EDT,NH,EPTC,ETHN,MOL,PPNOL,nBUT,AMYOH; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(EPTC,ETHN,MOL,PPNOL,nBUT,AMYOH) .

Hakeem, H. and Shehab, A. (1973). Cytological Effects of Eptam and Cotoran Herbicides on Vicia Faba Broadbeans. *Egypt.J.Bot.* 16: 303-311.

EcoReference No.: 41697

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Hammerton, J. L. (1963). Control of Weeds in Marrowstem Kale by EPTC and Some Other Herbicides. *Weed Res.* 3: 128-139.

EcoReference No.: 42022

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Hancock, J. G. (1993). Fungal Rootlet Colonization and Forage Yields of Alfalfa in Fungicide-Treated Field Plots. *Plant Dis.* 77: 601-608.

EcoReference No.: 111330

Chemical of Concern: BMY,TFN,EPTC,MTAS,MLX; Habitat: T; Effect Codes: PHY,POP,GRO; Code: NO MIXTURE(TFN,EPTC),TARGET(MLX,MTAS,BMY).

Hauser, E. W., Shaw, W. C., Harrison, H. F., and Parham, S. A. (1962). Herbicides and Herbicide Mixtures for Weed Control in Peanuts. *Weeds* 10: 139-144.

EcoReference No.: 40893

Chemical of Concern: SZ,EPTC; Habitat: T; Effect Codes: PHY,POP; Code: TARGET(SZ),NO CONTROL,NO ENDPOINT(EPTC).

Hess, F. D. (1980). A Chlamydomonas Algal Bioassay for Detecting Growth Inhibitor Herbicides. *Weed Sci.* 28: 515-520.

EcoReference No.: 6513

Chemical of Concern:

ACR,ATZ,BMN,BS,DBN,GYP,MLT,TFN,BTY,CPP,AMTL,EPTC,PAQT,FDE,BSO,DCPA,PQ T,ETHN; Habitat: A; Effect Codes: POP; Code: LITE EVAL CODED(ATZ,MLT),NO CONTROL,NO ENDPOINT(BS,EPTC,GYP,BSO,DCPA,BTY,ACR,PQT,FDE,TFN,ETHN).

Hulzebos, E. M., Dirven-Van Breemen, E. M., Van Dis, W. A., Van Gestel, C. A. N., and et al. (1989). Toxiciteit van het RIVM-Aandeel in Het Proj. Fytotoxiciteit 2. *RIVM Rapport Nr.718710002, RIVM, Netherlands (OECDG Data Files).*

EcoReference No.: 56351

Chemical of Concern: AZ,HCCH,PCP,AMSV,ACE,EPTC,ES; Habitat: T; Effect Codes:

GRO,REP; Code: NO CONTROL(EPTC,ACE,ES).

Jirachek, V., Tomankova, H., Vedralova, E., and Kocourek, J. (1964). The Influence of 1- and 6-Thiogluucose on the Growth and the Sugar and Free Amino Acid Content of Pea Seedlings. *Naturwissen* 51: 199.

EcoReference No.: 42223

Chemical of Concern: NPP,PMT,EPTC; Habitat: T; Effect Codes: GRO,REP; Code: NO CONTROL,NO ENDPOINT(EPTC,PMT).

Johnson, B. J. (1972). Effects of Herbicides Applied Preplant or Preemergence on Weeds and Sunflowers. *Crop Sci.* 12: 650-653.

EcoReference No.: 41645

Chemical of Concern: TFN,EPTC; Habitat: T; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(EPTC,TFN).

Johnson, B. J. (1974). Grass Control with EPTC in Sand Traps on Golf Courses. *Weed Sci.* 22: 434-436.

EcoReference No.: 41026

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Karunen, P. and Eronen, L. (1977). Influence of S-Ethyl Dipropylthiocarbamate (EPTC) on the Fatty Acid Composition of Wheat Leaf Galactolipids. *Physiol.Plant.* 40: 101-104.

EcoReference No.: 43001

Chemical of Concern: EPTC; Habitat: T; Effect Codes: BCM; Code: NO ENDPOINT(EPTC).

Koval'Chuk, L. Y., Perevozchenko, I. I., and Braginskii, L. P. (1971). Acute Toxicity of Yalan, Eptam and Sevin for *Daphnia magna*. *Exp.Water Toxicol.(Eksp.Vodn.Toksikol.)* 2: 56-64 (RUS) (ENG ABS).

EcoReference No.: 6133

Chemical of Concern: CBL,MLT,EPTC; Habitat: A; Code: NO CONTROL(MLT),NO CONTROL(EPTC,CBL).

Kozlowski, T. T. and Torrie, J. H. (1965). Effect of Soil Incorporation of Herbicides on Seed Germination and Growth of Pine Seedlings. *Soil Sci.* 100: 139-146.

EcoReference No.: 41006

Chemical of Concern: SZ,EPTC,DCPA,PPZ,ATZ,PMT; Habitat: T; Effect Codes: POP,GRO,REP; Code: LITE EVAL CODED(PPZ,PMT,ATZ,SZ),OK(DCPA),NO CONTROL,NO ENDPOINT(EPTC).

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

Krishnamurthy, K. (1970). Effect of Herbicides on Weeds and Yield of Sorghum. *Indian J.Agric.Sci.* 40: 474-480.

EcoReference No.: 41831

Chemical of Concern: SZ,ATZ,DU,24DXY,PPN,EPTC; Habitat: T; Effect Codes: REP; Code: NO ENDPOINT(SZ,ATZ,24DXY),NO CONTROL,NO ENDPOINT(EPTC,DU,PPN).

Lee, W. O. (1964). Pre-Plant Soil-Incorporated Herbicides for Control of Annual Weeds in the Establishment of Alfalfa, Birdsfoot Trefoil, and Red Clover. *West.Weed Control Conf.Research Prog.Rep.*: 29 p.

EcoReference No.: 57229

Chemical of Concern: EPTC; Habitat: T; Effect Codes: GRO; Code: NO ENDPOINT,NO CONTROL(EPTC).

Mann, J. D. and Pu, M. (1968). Inhibition of Lipid Synthesis by Certain Herbicides. *Weed Sci.* 1: 197-198.

EcoReference No.: 43988

Chemical of Concern: EDT,SZ,24DXY,ATZ,DBN,TFN,PCP,PCL,EPTC,PPN,PQT,MLH; Habitat: T; Effect Codes: BCM; Code: NO CONTROL,NO ENDPOINT(EPTC,EDT,SZ,24DXY,ATZ,DBN,TFN,PCP,PCL,PPN,PQT,MLH).

Mayer, F. L. Jr. and Eilersieck, M. R. (1986). Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. *Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC* 505 p. (USGS Data File).

EcoReference No.: 6797

Chemical of Concern:

EDT,RSM,SZ,24DXY,ACP,ACR,ADC,ATM,ATN,ATZ,AZ,BS,CaPS,Captan,CBF,CBL,CMPH,CQTC,CPY,CuS,DBN,DCPA,DCTP,DDVP,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,MDT,MLN,MLT,MOM,MP,MTL,NaN<sub>3</sub>,Naled,OML,OYZ,PCP,PEB,PAQT,PRT,PSM,Folpet,PYN,CYT,DMM,EFS,NAA,NTP,PMR,PPB,TFN,WFN,RSM,RTN,ALSV,Se,DBAC,Zn,As,MTPN,DCB,MTAS,OXD,PEPPG,TBF,CPYM,FLU,PPG,EPTC,TB O,PPF,TMP,TVPM,BSO,ZnS,ES,TCF,FNT,BMY,PPN,DCF,BTY,FDE,FBOX,EFV,PPX,MBTZ,DQTBr,ETHN,MOL,nBUT,Al,MCB,FOSNH; Habitat: A; Effect Codes: MOR,PHY; Code: LITE EVAL  
CODED(MTAS,MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RT N,CuS, DOD,NaN<sub>3</sub>,DMB,RSM,CaPS,MCPB,  
NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),NO  
CONTROL(PMR,EPTC,PPG,GYP,LNR,PSM,DS,FLU,OYZ,24DXY,DPDP,CPYM,CPY,PEPPG ,MP,Naled,BS,OXD,Captan,MLN,HXZ,TBF,TBO,CMPH,PPF,TMP,TVPM,BSO,DCTP,DU,ZnS ,DCPA,OML,ACP,DDVP,ES,TCF,FNT,BMY,PPN,DCF,BTY,ACR,PQT,FDE,FBOX,EFV,TFN, PPX,MBTZ,DQTBr,DFZ,ETHN,MOL,nBUT,MCB,FOSNH).

McCorkle, F. M., Chambers, J. E., and Yarbrough, J. D. (1977). Acute Toxicities of Selected Herbicides to Fingerling Channel Catfish, *Ictalurus punctatus*. *Bull. Environ. Contam. Toxicol.* 18: 267-270.

EcoReference No.: 858

Chemical of Concern: 24DXY,BS,DU,MBZ,DMM,TFN,EPTC,BSO,PPN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(BS,BSO,PPN,TFN),NO CONTROL,NO ENDPOINT(EPTC,24DXY,DU).

Meliyan, R. I. (1991). Effect of Pesticides on Reproductive Function of the Freshwater Amphipod *Gammarus kischineffensis*. *Hydrobiol.J.* 27: 33-36.

EcoReference No.: 7457

Chemical of Concern: HCCH,PCZ,EPTC; Habitat: A; Effect Codes: MOR,REP; Code: LITE EVAL CODED(PCZ),OK(HCCH),NO ENDPOINT(EPTC).

Moffett, J. O. and Morton, H. L. (1975). How Herbicides Affect Honey Bees. *Am.Bee J.* 115: 178-179, 200.

EcoReference No.: 115155

Chemical of Concern: EPTC,EPH,PCL,EDT,BMN,CCA,DSMA,PAQT,24D,DMB; Habitat: T; Effect Codes: REP,MOR,BEH; Code: NO CONTROL,NO ENDPOINT(EPTC,EPH,PAQT,24D,DMB).

Moreland, D. E., Malhotra, S. S., Gruenhagen, R. D., and Shokraii, E. H. (1969). Effects of Herbicides on RNA and Protein Synthesis. *Weed Sci.* 17: 556-563.

EcoReference No.: 42656

Chemical of Concern: AMTL,PCL,EPTC,PCH,PPN,TFN,DMB,DBN,DU,ATZ; Habitat: T; Effect Codes: BCM; Code: TARGET(DMB),NO CONTROL,NO ENDPOINT(EPTC,DU,ATZ,PPN,TFN).

Nishiuchi, Y. (1974). Control Effect of Pesticide to Duckweed. *Bull.Agric.Chem.Insp.Stn.Jpn.* 14: 69-72 (JPN) (ENG ABS).

EcoReference No.: 15281

Chemical of Concern:

24DXY,ACR,BMC,BS,DBN,DCPA,DU,LNR,MLT,PEB,PMT,PQT,SZ,TBC,PHMD,PYZ,CuS,PCP,PPZ,QOC,EPTC,CYA,BSO,PPN,TFN,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL,NO ENDPOINT(QOC,BS,CYA,EPTC,LNR,24DXY,BSO,DU,DCPA,PPN,PMT,ACR,PQT,TBC,TFN,DQTBr,CuS).

Nishiuchi, Y. and Asano, K. (1979). Toxicity of Agricultural Chemicals to Some Freshwater Organisms - LIX. *Suisan Zoshoku* 27: 48-55 (JPN) (ENG TRANSL).

EcoReference No.: 6954

Chemical of Concern:

ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DDVP,DMT,DU,DZ,Folpet,HCCH,LNR,MAL,MDT,MLN,MOM,PCP,PEB,PHMD,PMT,PNB,PPG,PQT,PSM,QOC,TBC,TFN,RTN,CuCl,PPZ,Zn,Ni,As,DCB,CPYM,EPTC,Ziram,TVPM,STRP,SFR,TCF,BMY,PPN,DCF,PPX,DQ TBr,TDC,AMZ,CuCO; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(RTN,Ziram,EPTC,PPG,LNR,PSM,CPYM,CPY,DMT,MLN,BMC,CTN,QOC,Captan ,Folpet,ATZ,TVPM,DZ,DU,STRP,SFR,ACP,DDVP,TCF,BMY,PPN,DCF,PMT,ACR,PQT,TBC,TFN,PPX,DQTBr,TDC,BT,AMZ,Cu,CuOH,CuCl,CuCO,CuS).

Ogawa, M. and Kitamura, H. (1988). Biological Assay of Plant Growth-Regulating Compounds Using Lemnaceae Plants. *Annu.Rep.Sankyo Res.Lab.(Sankyo Kenkyusho Nempo)* 40: 91-99 (JPN)(ENG ABS).

EcoReference No.: 3228

Chemical of Concern:

BTC,EPTC,PAQT,DCPA,GYP,LNR,NPM,24DXY,AMTL,PCP,MCPP1,DU,PQT,TBC; Habitat: A; Effect Codes: GRO; Code: NO CONTROL,NO ENDPOINT(EPTC,GYP,LNR,24DXY,DU,PQT,TBC).

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,PZM,PPN,DFQ; Habitat: T; Effect Codes: GRO; Code: NO



ENDPOINT(EPTC,LNR,MTZ,MBZ,OYZ,PPN,ACR,BTC,MTL,EFS,MLT,ODZ,PZM,PPN,DFQ),NO COC(OXF).

Perevozchenko, I. I. (1975). Effect of Carbamic and Thiocarbamic Acid Derivatives on Fishes and Amphibians. *Hydrobiol.J.* 11: 74-76.

EcoReference No.: 5822

Chemical of Concern: MLT,EPTC; Habitat: A; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(MLT),NO CONTROL,NO ENDPOINT(EPTC).

Phatak, S. C. and Cantliffe, D. J. (1975). Effect of Herbicides on Weed Control and Nitrate Accumulation in Table Beets. *Hortscience* 10: 271-273.

EcoReference No.: 41580

Chemical of Concern: PEB,PYZ,EPTC,BRA; Habitat: T; Effect Codes: GRO,POP,BCM; Code: TARGET(PYZ),NO CONTROL,NO ENDPOINT(EPTC,BRA).

Putnam, A. R. and Davidson, H. (1970). Chemical Control of Weeds in Transplanted Ground Covers. *J.Am.Soc.Hortic.Sci.* 95: 687-689.

EcoReference No.: 43457

Chemical of Concern: SZ,BS,DBN,TFN,EPTC,BSO,DCPA; Habitat: T; Effect Codes: PHY,POP; Code: NO CONTROL,NO ENDPOINT(EPTC,BS,BSO,SZ,DCPA,TFN).

Racz, I. and Lasztity, D. (1978). Effect of EPTC (Ethyl-N,N-Di-N-Propylthiocarbamate) and Antidotes on the Growth of *Chlorella vulgaris*. *Bot.Kozl.* 65: 75-79 (HUN) (ENG ABS).

EcoReference No.: 6864

Chemical of Concern: EPTC; Habitat: A; Code: NO CONTROL,NO ENDPOINT(EPTC).

Raker, R. J. (1978). Evaluation of Herbicides for Control of Yellow Nutsedge on Nursery Fields. *Ohio ARDC.C.* 236: 51-52.

EcoReference No.: 41842

Chemical of Concern: GYP,NPP,ACR,BT,EPTC; Habitat: T; Effect Codes: MOR,PHY; Code: NO CONTROL,NO ENDPOINT(EPTC,GYP,ACR,BT).

Reed, J. P., Keaster, A. J., Kremer, R. J., and Kerr, H. D. (1989). Activities and Degradation of Several Insecticides and Herbicides in Soils Poised for Enhanced Carbamate and Thiocarbamate Degradation. *J. Environ.Sci.Health Part B* 24: 23-35.

EcoReference No.: 100901

Chemical of Concern: CBF,TBO,ACR,BTY,EPTC; Habitat: T; Effect Codes: MOR,POP; Code: LITE EVAL CODED(TBO,CBF),NO ENDPOINT(BTY,ACR,EPTC).

Reed, J. P., Keaster, A. J., Kremer, R. J., and Krause, G. F. (1989). Synergistic and Antagonistic Responses of Soil Insecticide-Herbicide Combinations for Corn Rootworm, *Diabrotica* spp. Control. *J. Environ.Sci.Health Part B* 24: 325-334.

EcoReference No.: 106095

Chemical of Concern: ACR,BTY,EPTC,CBF,TBO; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ACR,BTY,EPTC,CBF,TBO).

Reichel, H., Sisler, H. D., and Kaufman, D. D. (1991). Inducers, Substrates, and Inhibitors of a Propanil-Degrading Amidase of *Fusarium oxysporum*. *Pestic.Biochem.Physiol.* 39: 240-250.

EcoReference No.: 104856

Chemical of Concern:

THM,PPN,PCN,PEB,ACR,BDC,CBD,CBF,CBX,CPP,CMX,EPTC,IPD,LNR,MLX,MTL;

Habitat: T; Effect Codes: BCM; Code: NO

ENDPOINT(THM,PPN,PEB,ACR,CBD,CBF,CBX,EPTC,IPD,LNR,MLX,MTL).

Rincon, D. J. and Warren, G. F. (1978). Effect of Five Thiocarbamate Herbicides on Purple Nutsedge (*Cyperus rotundus*). *Weed Sci.* 26: 127-131.

EcoReference No.: 41477

Chemical of Concern: MLT,PEB,BTY,VNT,EPTC; Habitat: T; Effect Codes: POP; Code:

LITE EVAL CODED(MLT),NO CONTROL,NO ENDPOINT(EPTC,BTY).

Sakuma, M., Fukami, H., and Kuwahara, Y. (1997). Attractiveness of Alkylamines and Aminoalcohols Related to the Aggregation Attractant Pheromone of the German Cockroach, *Blattella germanica* (L.) (Dictyoptera: Blattellidae). *Appl.Entomol.Zool.* 32: 197-205.

EcoReference No.: 107433

Chemical of Concern: NH,DNP; Habitat: T; Effect Codes: BEH; Code: NO

DURATION(DNP),TARGET(NH).

Sanders, H. O. (1970). Toxicities of Some Herbicides to Six Species of Freshwater Crustaceans. *J.Water Pollut.Control Fed.* 24: 1544-1550 (Publ in Part As 6797).

EcoReference No.: 886

Chemical of Concern:

SZ,EDT,24DXY,BS,DBN,DMB,DU,MLT,PEB,TFN,EPTC,BSO,BTY,MTAS,PPN; Habitat: A;

Effect Codes: MOR,PHY; Code: LITE EVAL CODED(MLT,SZ,DMB),NO CONTROL(EPTC,24DXY,BS,BSO,DU,PPN,BTY,TFN).

Sasaki, S. and Kozlowski, T. T. (1968). Effects of Herbicides on Seed Germination and Early Seedling Development of *Pinus resinosa*. *Bot.Gaz.* 129: 238-246.

EcoReference No.: 43872

Chemical of Concern: ATZ,24DXY,EPTC; Habitat: T; Effect Codes: REP,MOR; Code:

TARGET(ATZ),NO CONTROL,NO ENDPOINT(EPTC,24DXY).

Schuh, J. F. and Harvey, R. G. (1990). Woolly Cupgrass (*Eriochloa villosa* (Thunb.) Kunth) Control in Corn (*Zea mays* L.) and Soybean (*Glycine max* (L.) Merr.) and the Influence of Moisture on Imazethapyr Diffusion. *Ph.D.Thesis, The Univ.of Wisconsin, Madison, WI* 334 p. (UMI#9100162).

EcoReference No.: 116575

Chemical of Concern:

CLT,HFP,FZF,QZF,NSF,MBZ,ACR,CMZ,TFN,AMTR,SXD,PAQT,GYP,PDM,MTL,BTY,CZE,

CYC,EPTC,LNR; Habitat: T; Effect Codes: GRO,POP,PHY,MOR; Code: NO

MIXTURE(ACR,CMZ,TFN,PDM,MTL,BTY,EPTC),TARGET(CLT,MBZ,SXD,PAQT,GYP,LNR).

Scudder, W. T. (1963). Evaluation of Herbicides for Soybeans on Central Florida Organic Soils. *Fla.Agric.Exp.Stn.Bull.* 650: 3-36.

EcoReference No.: 42227

Chemical of Concern: ATZ,DU,SZ,AMTL,NaPCP,EPTC,24DXY,PPZ; Habitat: T; Effect

Codes: PHY,POP; Code: NO ENDPOINT(AMTL,ATZ,PPZ),TARGET(SZ),NO CONTROL,NO ENDPOINT(EPTC,24DXY,DU).

Sharifi, I. and Nollen, P. M. (1981). The Effect of Six Herbicides on the Longevity of *Schistosoma mansoni* miracidia. *Trans.Ill.State Acad.Sci.* 74: 91-98.

EcoReference No.: 106103

Chemical of Concern: EPTC,ACR,BTY; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(EPTC,ACR,BTY).

Smith, D. and Buchholtz, K. P. (1964). Modification of Plant Transpiration Rate with Chemicals. *Plant Physiol.* 39: 572-578.

EcoReference No.: 42221

Chemical of Concern:

ATZ,SZ,24DXY,LNR,TFN,PPZ,AMTR,AMTL,DU,EPTC,DCPA,PPN,DQTBr; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT(ATZ,SZ,PPZ,AMTR,AMTL),NO CONTROL,NO ENDPOINT(EPTC,LNR,24DXY,DU,DCPA,PPN,TFN,DQTBr).

Sumida, S. and Ueda, M. (1973). Studies of Pesticide Effects on *Chlorella* Metabolism. I. Effect of Herbicides on Complex Lipid Biosynthesis. *Plant Cell Physiol.* 14: 781-785.

EcoReference No.: 70737

Chemical of Concern: SZ,24DXY,BMC,EPTC,DU,PPN,TBC,DQTBr; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(EPTC,BMC,SZ,24DXY,DU,PPN,TBC,DQTBr).

Thomas, V. M. Jr., Buckley, L. J., Sullivan, J. D. Jr., and Ikawa, M. (1973). Effect of Herbicides on the Growth of *Chlorella* and *Bacillus* Using the Paper Disc Method. *Weed Sci.* 21: 449-474.

EcoReference No.: 67240

Chemical of Concern: ATZ,SZ,24DXY,LNR,EPTC,DU,PQT,DQTBr; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(SZ),NO CONTROL,NO ENDPOINT(EPTC,LNR,24DXY,DU,ATZ,PQT,DQTBr).

Vengris, J. (1977). Annual Weed Control in Alfalfa New Seedlings. *Proc.Northeast.Weed Sci.Soc.* 31: 99-103.

EcoReference No.: 40621

Chemical of Concern: MTL,EPTC,MTZ; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(MTL),NO ENDPOINT(EPTC).

Voronkin, A. S. and Loshakov, Y. T. (1973). Toxic Effect of Pesticides on *Tubifex tubifex*. *Exp.Water Toxicol.(Eksp.Vodn.Toksikol.)* 5: 169-178 (RUS) (ENG ABS).

EcoReference No.: 9015

Chemical of Concern: DMT,Zn,MP,EPTC,DCPA,TCF; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DMT,Zn,MP,EPTC,DCPA,TCF).

Wilkinson, R. E. and Hardcastle, W. S. (1969). EPTC Effects on Sicklepod Petiolar Fatty Acids. *Weed Sci.* 17: 335-338.

EcoReference No.: 42886

Chemical of Concern: EPTC; Habitat: T; Code: NO CONTROL,NO ENDPOINT(EPTC).

Williams, B. J. and Harvey, R. G. (2000). Effect of Nicosulfuron Timing on Wild-Proso Millet (*Panicum miliaceum*) Control in Sweet Corn (*Zea mays*). *Weed Technol.* 14: 377-382.

EcoReference No.: 59737

Chemical of Concern: EPTC,CZE,NSF; Habitat: T; Code: NO MIXTURE(EPTC).

Winget, C. H., Kozlowski, T. T., and Kuntz, J. E. (1963). Effects of Herbicides on Red Pine Nursery Stock. *Weeds* 11: 87-90.

EcoReference No.: 40664

Chemical of Concern: SZ,ATZ,PPZ,EPTC; Habitat: T; Effect Codes: GRO,POP,PHY,MOR; Code: LITE EVAL CODED(PPZ),TARGET(SZ),NO CONTROL,NO ENDPOINT(EPTC,ATZ).

Woodruff, R. C., Mason, J. M., Valencia, R., and Zimmering, S. (1985). Chemical Mutagenesis Testing in Drosophila. V. Results of 53 Coded Compounds Tested for the National Toxicology Program. *Environ.Mutagen.* 7: 677-702.

EcoReference No.: 95102

Chemical of Concern: PCL,PL,FUR,EPTC,CIN,CLNB,12DPA,ETU,FML,4CE,DCF; Habitat: T; Effect Codes: REP,MOR,CEL; Code: NO ENDPOINT(EPTC),OK(FUR,CLNB,ETU),TARGET(12DPA,DCF).

### Excluded

Analysis of Occurrence Data From the First Unregulated Contaminant Monitoring Program (Ucmr 1) in Support of Regulatory Determinations for the Second Drinking Water Contaminant Candidate List (Ccl 2), June 2008. *Govt Reports Announcements & Index (GRA&I), Issue 22, 2008.*

Chem Codes: Chemical of Concern: EPTC Code: ABSTRACT.

1990). Enhanced Biodegradation of Carbamothioate Herbicides in South Carolina Usa Au - Skipper Hd. *Racke, k. D. And j. R. Coats (ed.). Acs (american chemical society) symposium series, vol. 426. Enhanced biodegradation of pesticides in the environment* 198th national meeting, miami beach, florida, usa, september 10-15, 1989. X+302p. American chemical society: washington, d.c., Usa. Illus. Isbn 0-8412-1784-x.; 0: 37-52.

Chem Codes: Chemical of Concern: EPTC Code: BACTERIA, FATE.

Health Effects Support Document for S-Ethyl Dipropylthiocarbamate (Eptc), January 2008. *Govt Reports Announcements & Index (GRA&I), Issue 22, 2008.*

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Chem Codes: Chemical of Concern: EPTC Code: NO TOX DATA.

Red Facts: Eptc. *Govt reports announcements & index (gra&i), issue 10, 2000.*

Chem Codes: Chemical of Concern: EPTC Code: REVIEW.

Reregistration Eligibility Decision (Red): Eptc. (Includes Red Facts: Eptc Fact Sheet). *Govt reports announcements & index (gra&i), issue 10, 2000.*

Chem Codes: Chemical of Concern: EPTC Code: HUMAN HEALTH.

Aires, Cátia C. P., Soveral, Graça, Luís, Paula B. M., ten Brink, Herman J., de Almeida, Isabel Tavares, Duran, Marinus, Wanders, Ronald J. A., and Silva, Margarida F. B. (2008-). Pyruvate uptake is inhibited by valproic acid and metabolites in mitochondrial membranes. *FEBS Letters* 582: 3359-3366.

Chem Codes: Chemical of Concern: EPTC Code: HUMAN HEALTH.

Aktas, Deniz F. and Cook, Paul F. (2008). Role of residues in the adenosine binding site of NAD of the *Ascaris suum* malic enzyme. *Biochimica et Biophysica Acta (BBA) - Proteins & Proteomics* 1784: 2059-2064.

Chem Codes: Chemical of Concern: EPTC Code: IN VITRO.

- Albanis, T., Danis, T., Voutsas, D., and Kouimtzis, T. (1995). Evaluation of Chemical Parameters in Aliakmon River Northern Greece. Part III. Pesticides. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 30: 1945-1956.  
Chem Codes: Chemical of Concern: EPTC Code: FATE, HUMAN HEALTH.
- Albanis, T. A. (1991). Runoff losses of EPTC, Molinate, Simazine, Diuron, Propanil and Metolachlor in Thermaikos Gulf, N. Greece. *Chemosphere* 22: 645-653.  
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Chem Codes: Chemical of Concern: EPTC Code: FATE, CHEM METHODS.
- Anderson, J. L. and Thomson, W. W. (1973). The Effects of Herbicides on the Ultrastructure of Plant Cells. *Residue Rev.* 47: 167-189.  
Chem Codes: EcoReference No.: 26097  
Chemical of Concern: SZ,PYZ,PCL,EPTC,DU,DCPA,24D,IAA,PAQT,AMTL,ATZ,BMC,CPP  
Code: REVIEW.
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Chem Codes: Chemical of Concern: EPTC Code: HUMAN HEALTH.
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Chem Codes: Chemical of Concern: EPTC Code: NON-ENGLISH.
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Chem Codes: Chemical of Concern: EPTC Code: FATE.
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