



Appendix G : Methoprene Papers Accepted and Rejected for ECOTOX

The ECOTOX database is developed and maintained by EPA's National Health and Environmental Effects Research laboratory, Mid-Continent Ecology Division (MED) in Duluth, Minnesota.

Studies located using the ECOTOX database are grouped into the following three categories: Studies that are excluded from ECOTOX, studies accepted by ECOTOX but not OPP, and studies accepted by ECOTOX and OPP. Generally, studies may be excluded from ECOTOX for numerous reasons including: (1) effects data are not reported; (2) study is not available in English; (3) study does not utilize controls; (4) study is an abstract or a review article; etc. Studies containing effects data are encoded into ECOTOX by trained document abstractors at MED, and this group of papers comprises the studies accepted by ECOTOX category. The final category of accepted by ECOTOX and OPP is determined using specific criteria described on the following page. Data from the category of studies accepted by ECOTOX and OPP may be used in the risk assessment. ECOTOX studies used in the assessment are listed both in this appendix and in the bibliography in the main document. Studies acceptable to ECOTOX and OPP that are not incorporated into the assessment generally produced a less sensitive endpoint than the ones used in the assessment; however, given the large number of studies were rejected for numerous reasons.

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)

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.

ECOTOX Papers that Were Acceptable but not Used by OPP in this Assessment

The following studies were not used in this S-methoprene assessment because of the following concerns: 1) Studies prior to 1990 were conducted on the racemic mixture, RS-methoprene and not S-methoprene; 2) The assessment was focusing on freshwater organisms. Therefore estuarine/marine species were not included in this assessment (CRLF's habitat is freshwater); 3) Studies that were not the original source were not used; 4) Efficacy studies were not used; 5) Field studies that were summaries of general results (no data for critical evaluation); 6) Studies that looked at end points that are not relevant to this assessment; 7) Studies on mosquito resistance; 8) Studies that produced endpoints that were not the most sensitive were not used.

Acceptable for ECOTOX and OPP

Ahl, J. S. B. and Brown, J. J. (1990). Salt-Dependent Effects of Juvenile Hormone and Related Compounds in Larvae of the Brine Shrimp, *Artemia*. *Comp.Biochem.Physiol.A* 95: 491-496.

EcoReference No.: 85684

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

Ali, A., Nayar, J. K., and Xue, R. D. (1995). Comparative Toxicity of Selected Larvicides and Insect Growth Regulators to a Florida Laboratory Population of *Aedes albopictus*. *J.Am.Mosq.Control Assoc.* 11: 72-76.

EcoReference No.: 16077

Chemical of Concern: PYX,BFT,DFZ,FNTH,MLN,CPY,TMP,CYP,PMR,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN,CYP,BFT),OK(ALL CHEMS).

Amin, A. M. and White, G. B. (1984). Resistance Potential of *Culex quinquefasciatus* Against the Insect Growth Regulators Methoprene and Diflubenzuron. *Entomol.Exp.Appl.* 36: 69-76.

EcoReference No.: 11463

Chemical of Concern: DFZ,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(DFZ).

Barker, R. J. and Waller, G. D. (1978). Sublethal Effects of Parathion, Methyl Parathion, Or Formulated Methoprene fed to Colonies of Honey Bees. *Environ.Entomol.* 7: 569-571.

EcoReference No.: 35028

Chemical of Concern: MP,MTPN,PRN; Habitat: T; Effect Codes: MOR,BEH,REP; Rejection Code: LITE EVAL CODED(MTPN),OK(MP,PRN).

Baruah, I. and Das, S. C. (1996). Evaluation of Methoprene (Altosid) and Diflubenzuron (Dimilin) for Control of Mosquito Breeding in Tezpur (Assam). *Indian J.Malariol.* 33: 61-66.

EcoReference No.: 59280

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

Batzer, D. P. and Sjogren, R. D. (1986). Potential Effects of Altosid (Methoprene) Briquet Treatments on *Eubranchipus bundyi* (Anostraca: Chirocephalidae). *J.Am.Mosq.Control Assoc.* 2: 226-227.

EcoReference No.: 85680

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

Becnel, J. J., Garcia, J., and Johnson, M. (1996). Effects of Three Larvicides on the Production of *Aedes albopictus* Based on Removal of Pupal Exuviae. *J.Am.Mosq.Control Assoc.* 12: 499-502.

EcoReference No.: 18737

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

Beehler, W. J. and Mulla, S. M. (1993). Effect of the Insect Growth Regulator Methoprene on the Ovipositional Behavior of *Aedes aegypti* and *Culex quinquefasciatus*. *J.Am.Mosq.Control Assoc.* 9: 13-16.

EcoReference No.: 85675

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

Binder, B. F., Demilo, A. B., Kochansky, J. P., and Chitwood, D. J. (1992). Inhibition of Development in *Caenorhabditis elegans* Nematoda by a Reduced Aromatic Schiff Base and Related Compounds. *J.Agric.Food Chem.* 40: 1475-1477.

EcoReference No.: 85736

Chemical of Concern: MTPN,FYN; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Bircher, L. and Ruber, E. (1988). Toxicity of Methoprene to All Stages of the Salt Marsh Copepod, *Apocyclops spartinus* (Cyclopoida). *J.Am.Mosq.Control Assoc.* 4: 520-523.

EcoReference No.: 2744

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

Breaud, T. P., Farlow, J. E., Steelman, C. D., and Schilling, P. E. (1977). Effects of the Insect Growth Regulator Methoprene on Natural Populations of Aquatic Organisms in Louisiana Intermediate Marsh Habitats. *Mosq.News* 37: 704-712.

EcoReference No.: 8242

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

Breccia, A., Gattavecchia, E., Pietra, and Lumare, F. (1977). Radiobiochemistry of Phytodrugs: 2. Activity of Altosid (R) and Altozar (R) in the Biosynthesis of Proteins and RNA in Larvae of Shrimps In Vivo Studied by Leucine-U-14C and Uridine-2-14C. *J.Environ.Sci.Health* 12: 105-112.

EcoReference No.: 85657

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

Brown, M. D., Carter, J., Thomas, D., Purdie, D. M., and Kay, B. H. (2002). Pulse-Exposure Effects of Selected Insecticides to Juvenile Australian Crimson-Spotted Rainbowfish (*Melanotaenia duboulayi*). *J.Econ.Entomol.* 95: 294-298.

EcoReference No.: 85940

Chemical of Concern: MTPN,PYX,TMP,PIRM; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Brown, M. D., Thomas, D., and Kay, B. H. (1998). Acute Toxicity of Selected Pesticides to the Pacific Blue-Eye, *Pseudomugil signifer* (Pisces). *J.Am.Mosq.Control Assoc.* 14: 463-466.

EcoReference No.: 7084

Chemical of Concern: MTPN,PIRM,PYX,TMP; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Brown, M. D., Thomas, D., Mason, P., Greenwood, J. G., and Kay, B. H. (1999). Laboratory and Field Evaluation of the Efficacy of Four Insecticides for *Aedes vigilax* (Diptera: Culicidae) and Toxicity to the Nontarget Shrimp Leander tenuicornis (Decapoda: Palaemonidae). *J.Econ.Entomol.* 92: 1045-1051.

EcoReference No.: 62235

Chemical of Concern: TMP,PIRM,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN).

Brown, M. D., Thomas, D., Watson, K., Greenwood, J. G., and Kay, B. H. (1996). Acute Toxicity of Selected Pesticides to the Estuarine Shrimp Leander tenuicornis (Decapoda: Palaemonidae). *J.Am.Mosq.Control Assoc.* 12: 721-724.

EcoReference No.: 59763

Chemical of Concern: TMP,MTPN,PYX; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Brown, M. D., Watson, T. M., Green, S., Greenwood, J. G., Purdie, D., and Kay, B. H. (2000). Toxicity of Insecticides for Control of Freshwater *Culex annulirostris* (Diptera: Culicidae) to the Nontarget Shrimp, *Caradina indistincta* (Decapoda: Atyidae). *J.Econ.Entomol.* 93: 667-672.

EcoReference No.: 59764

Chemical of Concern: MTPN,TMP,PIRM; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN).

Celestial, D. M. Jr. (1994). The Influence of an Insect Growth Regulator in the Larval Development of the Mud Crab *Rhithropanopeus harrisi*. *Environ.Pollut.* 85: 169-173 .

EcoReference No.: 18258

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

Christiansen, M. E., Costlow, J. D., and Monroe, R. J. (1977). Effects of Juvenile Hormone Mimic ZR-515 (Altosid) in Larvae Development of the Mud-Crab *Rhithropanopeus harrisi* in Various Salinities and Cyclic Temperatures. *Mar.Biol.* 39: 269-279 .

EcoReference No.: 48235

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

Cornel, A. J., Stanich, M. A., McAbee, R. D., and Mulligan III, F. S. (2002). High Level Methoprene Resistance in the Mosquito *Ochlerotatus nigromaculis* (Ludlow) in Central California. *Pest Manag.Sci.* 58: 791-798.

EcoReference No.: 71961

Chemical of Concern: MTPN,PPB; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Ghekiere, A., Verslycke, T., Fockedey, N., and Janssen, C. R. (2006). Non-target Effects of the Insecticide Methoprene on Molting in the Estuarine Crustacean *Neomysis integer* (Crustacea: Mysidacea). *J.Exp.Mar.Biol.Ecol.* 332: 226-234.

EcoReference No.: 85671

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

Ghekiere, A., Verslycke, T., and Janssen, C. (2006). Effects of Methoprene, Nonylphenol, and Estrone on the Vitellogenesis of the Mysid *Neomysis integer*. *Gen.Comp.Endocrinol.* 147: 190-195.

EcoReference No.: 85669

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

Gradoni, L., Bettini, S., and Majori, G. (1976). Toxicity of Altosid to the Crustacean, *Gammarus aequicauda*. *Mosq.News* 36: 294-297.

EcoReference No.: 5660

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

Hanowski, J. M., Niemi, G. J., Lima, A. R., and Regal, R. R. (1997). Do Mosquito Control Treatments of Wetlands Affect Red-Winged Blackbird (*Agelaius phoeniceus*) Growth, Reproduction, or Behavior? *Environ.Toxicol.Chem.* 16: 1014-1019.

EcoReference No.: 39985

Chemical of Concern: MTPN; Habitat: T; Effect Codes: POP,GRO,REP,BEH,MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Hanowski, J. M., Niemi, G. J., Lima, A. R., and Regal, R. R. (1997). Response of Breeding Birds to Mosquito Control Treatments of Wetlands. *Wetlands* 17: 485-492 .

EcoReference No.: 85735

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

Hershey, A. E., Lima, A. R., Niemi, G. J., and Regal, R. R. (1998). Effects of *Bacillus thuringiensis israelensis* (BTI) and Methoprene on Nontarget Macroinvertebrates in Minnesota Wetlands. *Ecol.Appl.* 8: 41-60.

EcoReference No.: 62113

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

Kline, D. L. (1993). Small Plot Evaluation of a Sustained-Release Sand Granule Formulation of Methoprene (SAN 810 I 1.3 GR) for Control of *Aedes taeniorhynchus*. *J.Am.Mosq.Control Assoc.* 9: 155-157.

EcoReference No.: 85674

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

Knepper, R. G., LeClair, A. D., Strickler, J. D., and Walker, E. D. (1992). Evaluation of Methoprene (Altosid XR) Sustained-Release Briquets for Control of *Culex* mosquitoes in Urban Catch Basins. *J.Am.Mosq.Control Assoc.* 8: 228-230.

EcoReference No.: 85676

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

Kramer, V. L. and Beesley, C. (1991). Efficacy and Persistence of Sustained-Release Methoprene Pellets Against Aedes Mosquitoes in an Irrigated Pasture. *J.Am.Mosq.Control Assoc.* 7: 646-648.

EcoReference No.: 85678

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

Kramer, V. L., Carper, E. R., and Beesley, C. (1993). Control of Aedes dorsalis with Sustained-Release Methoprene Pellets in a Saltwater Marsh. *J.Am.Mosq.Control Assoc.* 9: 127-130.

EcoReference No.: 85673

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

Krishnamoorthy, K., Rajendran, G., Sebesan, S., and Panicker, K. N. (1993). Efficacy of Altosid, a Juvenile Hormone Analogue Against the Immatures of Mansonioides Mosquitoes, the Vectors of Brugia malayi. *Entomon* 18: 31-37.

EcoReference No.: 85692

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

Lang, J. T. and Chamberlain, W. F. (1986). Methoprene Dust for Flea (Siphonaptera: Ceratophyllidae) Suppression on Ground Squirrels (Spermophilus mexicanus parvidens) (Rodentia: Sciuridae). *J.Med.Entomol.* 23: 141-145.

EcoReference No.: 85668

Chemical of Concern: MTPN; Habitat: T; Effect Codes: POP,MOR; Rejection Code: LITE EVAL CODED(MTPN).

Lawler, S. P., Dritz, D. A., and Jensen, T. (2000). Effects of Sustained-Release Methoprene and a Combined Formulation of Liquid Methoprene and Bacillus thuringiensis israelensis on Insects in Salt Marshes. *Arch.Environ.Contam.Toxicol.* 39: 177-182 .

EcoReference No.: 51373

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

Lawler, S. P., Jensen, T., Dritz, D. A., and Wichterman, G. (1999). Field Efficacy and Nontarget Effects of the Mosquito Larvicides Temephos, Methoprene, and Bacillus thuringiensis var. israelensis in Florida Mangrove Swamps. *J.Am.Mosq.Control Assoc.* 15: 446-452.

EcoReference No.: 61918

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

Lee, B. M. and Scott, G. I. (1989). Acute Toxicity of Temephos, Fenoxycarb, Diflubenzuron, and Methoprene and Bacillus thuringiensis var. israelensis to the Mummichog (Fundulus heteroclitus). *Bull.Environ.Contam.Toxicol.* 43: 827-832.

EcoReference No.: 2548

Chemical of Concern: DFZ,TMP,FYC,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(DFZ,TMP,FYC).

Lee, R. and Oshima, Y. (1998). Effects of Selected Pesticides, Metals and Organometallics on Development of Blue Crab (Callinectes sapidus) Embryos. *Mar.Environ.Res.* 46: 479-482.

EcoReference No.: 67659

Chemical of Concern: CYP,DFZ,FNV,CPY,MTPN,ES,TBT,CuCl,Hg,Cd; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CYP,CuCl),OK(ALL CHEMS).

Lee, R. and Oshima, Y. (1998). Effects of Selected Pesticides, Metals and Organometallics on Development of Blue Crab (*Callinectes sapidus*) Embryos. *Mar. Environ. Res.* 46: 479-482.

EcoReference No.: 67659

Chemical of Concern: CYP,DFZ,FNV,CPY,MTPN,ES,TBT,CuCl,Hg,Cd; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN,CYP,CuCl),OK(ALL CHEMS).

Logan, T. M., Linthicum, K. J., Wagateh, J. N., Thande, P. C., Kamau, C. W., and Roberts, C. R. (1990). Pretreatment of Floodwater *Aedes* habitats (Dambos) in Kenya with a Sustained-Release Formulation of Methoprene. *J. Am. Mosq. Control Assoc.* 6: 736-738.

EcoReference No.: 85679

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

Madder, D. J. and Lockhart, W. L. (1978). A Preliminary Study of the Effects of Diflubenzuron and Methoprene on Rainbow Trout (*Salmo gairdneri* Richardson). *Bull. Environ. Contam. Toxicol.* 20: 66-70.

EcoReference No.: 5799

Chemical of Concern: DFZ,MTPN,UREA; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(MTPN),OK(DFZ,UREA).

Marten, G. G., Che, W., and Bordes, E. S. (1993). Compatibility of Cyclopoid Copepods with Mosquito Insecticides. *J. Am. Mosq. Control Assoc.* 9: 150-154.

EcoReference No.: 70395

Chemical of Concern: RSM,MLN,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN,RSM),OK(ALL CHEMS).

Mayer, F. L. Jr. and Ellersieck, 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,C
PY,CuS,DBN,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,M
DT,MLN,MLT,MOM,MP,MTL,NaN3,Naled,OYZ,PCP,PEB,PAQT,PRT,PSM,Folpet,PYN,CYT,DMM,E
FS,NAA,NTP,PMR,PPB,TFN,WFN,RSM,RTN,ALSV,Se,DBAC,Zn,As,MTPN,DCB; Habitat: A; Effect
Codes: MOR,PHY; Rejection Code: LITE EVAL
CODED(MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RTN,CuS,
DOD,NaN3,DMB,RSM,CaPS,MCPB,
NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),OK(ALL CHEMS).

Mayer, F. L. Jr. and Ellersieck, 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,C

PY,CuS,DBN,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,MDT,MLN,MLT,MOM,MP,MTL,NaN3,Naled,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; Habitat: A; Effect Codes: MOR,PHY; Rejection Code: LITE EVAL
CODED(AZ,MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RTN,CuS,DOD,NaN3,DMB,RSM,CaPS,MCPB,NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),OK(ALL CHEMS).

McCarry, M. J. (1996). Efficacy and Persistence of Altosid Pellets Against Culex Species in Catch Basins in Michigan. *J.Am.Mosq.Control Assoc.* 12: 144-146.

EcoReference No.: 18764
Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL
CODED(MTPN).

McKenney, C. L. J. and Celestial, D. M. (1996). Modified Survival, Growth and Reproduction in an Estuarine Mysid (*Mysidopsis bahia*) Exposed to a Juvenile Hormone Analogue Through a Complete Life Cycle. *Aquat.Toxicol.* 35: 11-20.

EcoReference No.: 4212
Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR,GRO,REP; Rejection Code: LITE EVAL
CODED(MTPN).

McKenney, C. L. J. and Matthews, E. (1988). Influence of an Insect Growth Regulator on Larval Development of a Marine Crustacean. *EPA 600/M-88-003, U.S.EPA, Gulf Breeze, FL* 6 p.

EcoReference No.: 5022
Chemical of Concern: MTPN; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL
CODED(MTPN).

McKenney, C. L. J. and Matthews, E. (1990). Influence on an Insect Growth Regulator on the Larval Development of an Estuarine Shrimp. *Environ.Pollut.* 64: 169-178.

EcoReference No.: 3266
Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL
CODED(MTPN).

McKenney, C. L. Jr. and Celestial, D. M. (1993). Variations in Larval Growth and Metabolism of an Estuarine Shrimp *Palaemonetes pugio* During Toxicosis by an Insect Growth Regulator. *Comp.Biochem.Physiol.C* 105: 239-245.

EcoReference No.: 8045
Chemical of Concern: MTPN; Habitat: A; Effect Codes: GRO,BCM; Rejection Code: LITE EVAL
CODED(MTPN).

McKenney, C. L. Jr. and Matthews, E. (1990). Influence of an Insect Growth Regulator on the Larval Development of an Estuarine Shrimp. *Environ.Pollut.* 64: 169-178.

EcoReference No.: 85683
Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL
CODED(MTPN).

Merriam, T. L. and Axtell, R. C. (1983). Relative Toxicity of Certain Pesticides to *Lagenidium giganteum* (Oomycetes: Lagenidiales), a Fungal Pathogen of Mosquito Larvae. *Environ.Entomol.* 12: 515-521.

EcoReference No.: 66427

Chemical of Concern:

MTPN,ACR,CPY,FNTH,MLN,TMP,DFZ,Captan,ATZ,DDT,HCCH,CBL,PPX,PMR,TXP; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(MTPN,ATZ),OK(ALL CHEMS).

Nasci, R. S., Wright, G. B., and Willis, F. S. (1994). Control of *Aedes albopictus* Larvae Using Time-Release Larvicide Formulations in Louisiana. *J.Am.Mosq.Control Assoc.* 10: 1-6.

EcoReference No.: 16473

Chemical of Concern: MTPN,ABT; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MTPN),OK(ABT).

Nelson, F. R. S., Gray, J., and Aikhionbare, F. (1994). Tolerance of the Planarian *Dugesia tigrina* (Tricladida: Turbellaria) to Pesticides and Insect Growth Regulators in a Small-Scale Field Study. *J.Am.Mosq.Control Assoc.* 10: 104-105.

EcoReference No.: 16457

Chemical of Concern: RSM,CYR,TMP,MTPN; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(MTPN),NO ENDPOINT(RSM,CYR,TMP).

Peterson, J. K., Kashian, D. R., and Dodson, S. I. (2001). Methoprene and 20-OH-Ecdysone Affect Male Production in *Daphnia pulex*. *Environ.Toxicol.Chem.* 20: 582-588.

EcoReference No.: 60069

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

Preston, B. L., Snell, T. W., Robertson, T. L., and Dingmann, B. J. (2000). Use of Freshwater Rotifer *Brachionus calyciflorus* in Screening Assay for Potential Endocrine Disruptors. *Environ.Toxicol.Chem.* 19: 2923-2928.

EcoReference No.: 60076

Chemical of Concern: NYP,NaPCP,CPY,Cd,PAH,MTPN; Habitat: A; Effect Codes: REP; Rejection Code: LITE EVAL CODED(MTPN,NaPCP),OK(ALL CHEMS).

Ranta, S. R., Batzer, D. P., Sharkey, K. R., and Sjogren, R. D. (1994). Efficacy of Methoprene Pellets Against *Coquillettidia perturbans* Larvae. *J.Am.Mosq.Control Assoc.* 10: 106-107.

EcoReference No.: 85672

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

Rathburn, C. B. Jr., Beidler, E. J., Dodd, G., and Alferty, A. (1979). Aerial Applications of a Sand Formulation of Methoprene for the Control of Salt-Marsh Mosquito Larvae. *Mosq.News* 39: 76-80.

EcoReference No.: 71971

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

Reish, D. J., LeMay, D. J., and Asato, S. L. (1985). The Effect of *Bacillus thuringiensis* var *israelensis* H-14 and Methoprene on Two Species of Marine Invertebrates from Southern California USA Estuaries. *Bull.Soc.Vector Ecol.* 10: 20-22.

EcoReference No.: 85687

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

Ritchie, S. A., Asnicar, M., and Kay, B. H. (1997). Acute and Sublethal Effects of (S)-Methoprene on Some

Australian Mosquitoes. *J.Am.Mosq.Control Assoc.* 13: 153-155.

EcoReference No.: 60869

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

Robert, L. L. and Olson, J. K. (1989). Effects of Sublethal Dosages of Insecticides on *Culex quinquefasciatus*. *J.Am.Mosq.Control Assoc.* 5: 239-246.

EcoReference No.: 69778

Chemical of Concern: RSM,MLN,PPX,MTPN; Habitat: AT; Effect Codes: MOR,GRO,REP,POP; Rejection Code: LITE EVAL CODED(MTPN,RSM),OK(ALL CHEMS).

Ross, D. H., Cohle, P., Blase, P. R., Bussard, J. B., and Neufeld, K. (1994). Effects of the Insect Growth Regulator (S)-Methoprene on the Early Life Stages of the Fathead Minnow *Pimephales promelas* in a Flow-Through Laboratory. *J.Am.Mosq.Control Assoc.* 10: 211-221.

EcoReference No.: 16811

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

Smith, D. G., Wilburn, C., and McCarthy, R. A. (2003). Methoprene Photolytic Compounds Disrupt Zebrafish Development, Producing Phenocopies of Mutants in the Sonic Hedgehog Signaling Pathway. *Mar.Biotechnol.* 5: 201-212.

EcoReference No.: 85686

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

, D. W. (2000). Effects of Altosid and Abate-4E on Deformities and Survival in Southern Leopard Frogs Under Semi-natural Conditions. *J.Iowa Acad.Sci.* 107: 90-91.

EcoReference No.: 85737

Chemical of Concern: MTPN,ABT; Habitat: A; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Steelman, C. D., Farlow, J. E., Breaud, T. P., and Schilling, P. E. (1975). Effects of Growth Regulators on *Psorophora columbiae* (Dyar and Knab) and Non-target Aquatic Insect Species in Rice Fields. *Mosq.News* 35: 67-76.

EcoReference No.: 4017

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

Stewart, J. P. (1977). Field Testing of Methoprene (Altosid) Briquets for *Culex* Mosquito Control. *In: Proc.Pap.Annu.Conf.Calif.Mosq.Vector Control Assoc.* 149-151.

EcoReference No.: 16160

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

Tatarazako, N., Oda, S., Watanabe, H., Morita, M., and Iguchi, T. (2003). Juvenile Hormone Agonists Affect the Occurrence of Male *Daphnia*. *Chemosphere* 53: 827-833 .

EcoReference No.: 72574

Chemical of Concern: MTPN,FXC,PYX; Habitat: A; Effect Codes: REP; Rejection Code: LITE EVAL

CODED(MTPN),OK(ALL CHEMS).

Tietze, N. S., Hester, P. G., Shaffer, K. R., Prescott, S. J., and Schreiber, E. T. (1994). Integrated Management of Waste Tire Mosquitoes Utilizing *Mesocyclops longisetus* (Copepoda: Cyclopidae), *Bacillus thuringiensis* Var. *Israelensis*. *J.Am.Mosq.Control Assoc.* 10: 363-373.

EcoReference No.: 16092

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

Verslycke, T., Poelmans, S., De Wasch, K., De Brabander, H. F., and Janssen, C. R. (2004). Testosterone and Energy Metabolism in the Estuarine Mysid *Neomysis integer* (Crustacea: Mysidacea) Following Exposure to Endocrine Disruptors. *Environ.Toxicol.Chem.* 23: 1289-1296.

EcoReference No.: 75108

Chemical of Concern: NYP,FYC,MTPN; Habitat: A; Effect Codes: MOR,PHY,BCM; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Wang, H. Y., Olmstead, A. W., Li, H., and LeBlanc, G. A. (2005). The Screening of Chemicals for Juvenoid-Related Endocrine Activity Using the Water Flea *Daphnia magna*. *Aquat.Toxicol.* 74: 193-204.

EcoReference No.: 85682

Chemical of Concern: MTPN,PPB,PYX,FRM,AZD,DLD,CHD,PTA; Habitat: A; Effect Codes: REP; Rejection Code: LITE EVAL CODED(MTPN).

Weathersbee III, A. A. and Meisch, M. V. (1991). Long-Term Residual Activity of Methoprene Against *Psorophora columbiae* Larvae in Rice Plots. *J.Am.Mosq.Control Assoc.* 7: 592-594.

EcoReference No.: 85677

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

Winner, R. A., Steelman, C. D., and Schilling, P. E. (1978). Effects of Selected Insecticides on *Romanomermis culicivorax*, a Mermithid Nematode Parasite of Mosquito Larvae. *Mosq.News* 38: 546-552.

EcoReference No.: 67468

Chemical of Concern: CPY,Naled,PPX,TMP,FNTH,MTPN,DFZ,MLN; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(MTPN),OK(ALL CHEMS).

Wirth, E. F., Lund, S. A., Fulton, M. H., and Scott, G. I. (2001). Determination of Acute Mortality in Adults and Sublethal Embryo Responses of *Palaemonetes pugio* to Endosulfan and Methoprene Exposure. *Aquat.Toxicol.* 53: 9-18.

EcoReference No.: 61089

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

Wurtsbaugh, W. A. and Apperson, C. S. (1978). Effects of Mosquito Control Insecticides on Nitrogen Fixation and Growth of Blue-Green Algae in Natural Plankton Associations. *Bull.Environ.Contam.Toxicol.* 19: 641-647.

EcoReference No.: 2910

Chemical of Concern: MTPN,TMP,PPX,MXC; Habitat: A; Effect Codes: CEL,BCM; Rejection Code: LITE EVAL CODED(MTPN),OK(TMP,PPX,MXC).

Yasuno, M. and Satake, K. (1990). Effects of Diflubenzuron and Methoprene on the Emergence of Insects and Their

Density in an Outdoor Experimental Stream. *Chemosphere* 21: 1321-1335.

EcoReference No.: 12521

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

Zou, E. and Bonvillain, R. (2004). Chitinase Activity in the Epidermis of the Fiddler Crab, *Uca pugilator*, as an In Vivo Screen for Molt-Interfering Xenobiotics. *Comp.Biochem.Physiol.C* 139: 225-230.

EcoReference No.: 81669

Chemical of Concern: DDT,MTPN,DLD,PMR,TBT,ATZ; Habitat: A; Effect Codes: BCM,MOR; Rejection Code: LITE EVAL CODED(MTPN,ATZ),OK(ALL CHEMS).

Acceptable for ECOTOX but not OPP

Ali, A. (1991). Activity of New Formulations of Methoprene Against Midges (Diptera: Chironomidae) in Experimental Ponds. *J.Am.Mosq.Control Assoc.* 7: 616-620.

EcoReference No.: 9780

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

Axtell, R. C., Dukes, J. C., and Edwards, T. D. (1979). Field Tests of Diflubenzuron, Methoprene, Flit MLO and Chlorpyrifos for the Control of *Aedes taeniorhynchus* Larvae in Diked Dredged Spoil Areas. *Mosq.News* 39: 520-527.

EcoReference No.: 60725

Chemical of Concern: DFZ,CPY,MTPN; Habitat: A; Effect Codes: POP,GRO; Rejection Code: NO ENDPOINT(MTPN).

Barber, J. T., Ellgaard, E. G., and Castagno, R. J. (1978). Crustacean Molting in the Presence of Altosid SR-10. *Mosq.News* 38: 417-418.

EcoReference No.: 6981

Chemical of Concern: MTPN; Habitat: A; Effect Codes: GRO,MOR; Rejection Code: NO ENDPOINT(MTPN).

Barker, R. W. and Butler, J. F. (1977). Field Evaluation of Methoprene and Phenothiazine Mineral Blocks for Inhibition of Larval Horn Fly Development in Bovine Manure. *J Georgia Entomol Soc* 12: 342-346.

EcoReference No.: 47326

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

Blume, R. R., Aga, A., Oehler, D. D., and Younger, R. L. (1974). *Onthophagus gazella*: A Non-target Arthropod for the Evaluation of Bovine Feces Containing Methoprene. *Environ.Entomol.* 3: 947-949.

EcoReference No.: 67191

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

Breeden, G. C., Turner, E. C., Beane, W. L., Miller, R. W., and Pickens, L. C. (1981). The Effect of Methoprene As A Feed Additive on House Fly Emergence in Poultry Houses. *Poult.Sci.* 60: 556-562.

EcoReference No.: 35950

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

Buckner, C. H., MacLeod, B. B., and Kingsbury, P. D. (1975). Insecticide Impact and Residue Studies on Anticosti

Island, Quebec in 1973. *Rep.CC-X-102, Chem.Control Res.Inst., Ottawa, Can .:* 31.

EcoReference No.: 4659

Chemical of Concern: DDT,FNT; Habitat: AT; Effect Codes: POP,ACC; Rejection Code: NO COC(MTPN),NO ENDPOINT(ALL CHEMS).

Chamberlain, W. F., Hunt.L.M., Hopkins, D. E., Gingrich, A. R., Miller, J. A., and Gilbert, B. N. (1975). Absorption, Excretion, and Metabolism of Methoprene by A Guinea Pig, A Steer, and A Cow. *J.Agric.Food Chem.* 23: 736-742.

EcoReference No.: 36122

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

Daglish, G. J. and Pulvirenti, C. (1998). Reduced Fecundity of *Rhyzopertha dominica* (F.) (Coleoptera: Bostrychidae) Following Exposure of Adults to Methoprene. *J.Stored Prod.Res.* 34: 201-206.

EcoReference No.: 64866

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

Ellgaard, E. G., Barber, J. T., Tiwari, S. C., and Friend, A. L. (1979). An Analysis of the Swimming Behavior of Fish Exposed to the Insect Growth Regulators, Methoprene and Diflubenzuron. *Mosq.News* 39: 311-314.

EcoReference No.: 6824

Chemical of Concern: DFZ,MTPN; Habitat: A; Effect Codes: BEH; Rejection Code: NO ENDPOINT(DFZ,MTPN).

Felippe, G. M. (1979). Effects of Beta-Ecdysone and Altosid on Flowering, Juvenility and Sex Expression. *Z Pflanzenep* 94: 79-84.

EcoReference No.: 43094

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

Floore, T. G., Rathburn, C. B. Jr., Dukes, J. C., Clements, B. W. Jr., and Boike, A. H. Jr. (1991). Control of *Aedes taeniorhynchus* and *Culex quinquefasciatus* Emergence with Sustained Release Altosid Sand Granules and Pellets in Saltwater and Freshwater Test Plots. *J.Am.Mosq.Control Assoc.* 7: 405-408.

EcoReference No.: 8992

Chemical of Concern: MTPN; Habitat: A; Effect Codes: GRO; Rejection Code: NO ENDPOINT(MTPN).

Fodor, A., Deak, P., and Kiss, I. (1982). Competition Between Juvenile Hormone Antagonist Precocene II and Juvenile Hormone Analog: Methoprene in the Nematode *Caenorhabditis elegans*. *Gen.Comp.Endocrinol.* 46 : 99-109.

EcoReference No.: 74374

Chemical of Concern: MTPN; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: NO COC(MOM),NO ENDPOINT(MTPN).

Fortin, C. and Solomon, K. R. (1988). Susceptibility of *Daphnia magna*, *Daphnia pulex*, *Macrocyclops fuscus* and *Diatomus* sp. to Methoprene Under Acute and Chronic Exposures. *Can.Tech.Rep.Fish.Aquat.Sci.No.1607* 52 (ABS).

EcoReference No.: 4923

Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR,REP; Rejection Code: NO ABSTRACT.

Haga, Y., Suzuki, T., Kagechika, H., and Takeuchi, T. (2003). A Retinoic Acid Receptor-Selective Agonist Causes Jaw Deformity in the Japanese Flounder, *Paralichthys olivaceus*. *Aquaculture* 221: 381-392.

EcoReference No.: 85786

Chemical of Concern: MTPN; Habitat: A; Effect Codes: CEL,GRO; Rejection Code: NO
ENDPOINT(MTPN).

Henrick, C. A., Staal, G. B., and Siddall, J. B. (1973). Alkyl 3,7,11-Trimethyl-2,4-Dodecadienoates, a New Class of Potent Insect Growth Regulators with Juvenile Hormone Activity. *J.Agric.Food Chem.* 21: 354-359.

EcoReference No.: 19479

Chemical of Concern: MTPN; Habitat: A; Effect Codes: POP; Rejection Code: NO
CONTROL(MTPN).

Hershey, A. E., Shannon, L., Axler, R., Ernst, C., and Mickelson, P. (1995). Effects of Methoprene and Bti (*Bacillus thuringiensis* var. *israelensis*) on Non-target Insects. *Hydrobiologia* 308: 219-227.

EcoReference No.: 16373

Chemical of Concern: MTPN; Habitat: A; Effect Codes: POP; Rejection Code: NO
ENDPOINT(MTPN).

Horst, M. N. and Walker, A. N. (1999). Effects of the Pesticide Methoprene on Morphogenesis and Shell Formation in the Blue Crab *Callinectes sapidus*. *J.Crust.Biol.* 19: 699-707.

EcoReference No.: 85787

Chemical of Concern: MTPN; Habitat: A; Effect Codes: CEL,BCM,MOR; Rejection Code: NO
ENDPOINT(MTPN).

Ivey, M. C., Miller, J. A., and Ivie, G. W. (1982). Methoprene: Residues in Fat of Cattle Treated with Methoprene Boluses. *J.Econ.Entomol.* 75: 254-256.

EcoReference No.: 37265

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

Johnson, C. R. (1977). The Effects of Subacute Concentrations of the Insect Growth Regulators, Dimilin and Methoprene, on Thermal Tolerance and Behavior in the Mosquitofish. *Proc.Pap.Annu.Conf.Calif.Mosq.Vector Control Assoc.* 45: 54-55.

EcoReference No.: 7505

Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: NO
ENDPOINT(MTPN).

Johnson, C. R. and Prine, J. E. (1976). The Effects of Sublethal Concentrations of Organophosphorus Insecticides and an Insect Growth Regulator on Temperature Tolerance in Hydrated and Dehydrated Juvenile Western Toads, *Bufo boreas*. *Comp.Biochem.Physiol.* 53: 147-149.

EcoReference No.: 7814

Chemical of Concern: ABT,CPY,MTPN,MP,CPYM,FNTH; Habitat: A; Effect Codes: PHY; Rejection Code: NO
ENDPOINT(MTPN).

Kikuchi, T., Kamei, M., Okubo, S., and Yasuno, M. (1992). Effects of the Insect Growth Regulator Methoprene and Organophosphorus Insecticides Against Non-target Aquatic Organisms in Urban Drains. *Jpn.J.Sanit.Zool./Eisei Dobutsu* 43: 65-70(JPN) (ENG ABS).

EcoReference No.: 7690

Chemical of Concern: DZ,FNT,MTPN,DDVP,FNTH; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN.

Kikuchi, T., Kamei, M., Okubo, S., and Yasuno, M. (1992). Effects of the Insect Growth Regulator Methoprene and Organophosphorus Insecticides Against Non-target Aquatic Organisms in Urban Drains. *Jpn.J.Sanit.Zool./Eisei Dobutsu* 43: 65-70(JPN) (ENG ABS).

EcoReference No.: 7690

Chemical of Concern: DZ,FNT,MTPN,DDVP,FNTH; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN.

Lawrenz, R. W. (1984). The Response of Invertebrates in Temporary Vernal Wetlands to Altosid SR-10 as Used in Mosquito Abatement Programs. *J.Minn.Acad.Sci.* 50: 31-34.

EcoReference No.: 12344

Chemical of Concern: MTPN; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(MTPN).

Levy, R. and Miller, T. W. Jr. (1978). Tolerance of the Planarian *Dugesia dorotocephala* to High Concentrations of Pesticides and Growth Regulators. *Entomophaga* 23: 31-34.

EcoReference No.: 5152

Chemical of Concern: CPY,DFZ,MLN,MTPN,TMP,FNTH; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT(ALL CHEMS).

McKague, A. B. and Pridmore, R. B. (1978). Toxicity of Altosid and Dimilin to Juvenile Rainbow Trout and Coho Salmon. *Bull.EnvIRON.Contam.Toxicol.* 20: 167-169.

EcoReference No.: 979

Chemical of Concern: DFZ,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(MTPN,DFZ).

McKague, A. B., Pridmore, R. B., and Wood, P. M. (1978). Effects of Altosid and Dimilin on Black Flies (Diptera: Simuliidae): Laboratory and Field Tests. *Can.Entomol.* 110: 1103-1110.

EcoReference No.: 2055

Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR,GRO,ACC,POP; Rejection Code: NO ENDPOINT(MTPN).

Merriam, T. L. and Axtell, R. C. (1983). Relative Toxicity of Certain Pesticides to *Lagenidium giganteum* (Oomycetes: Lagenidiales), a Fungal Pathogen of Mosquito Larvae. *Environ.Entomol.* 12: 515-521.

EcoReference No.: 66427

Chemical of Concern:

MTPN,ACR,CPY,FNTH,MLN,TMP,DFZ,Captan,ATZ,DDT,HCCH,CBL,PPX,PMR,TXP; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(ATZ).

Miura, T. and Takahashi, R. M. (1974). Insect Developmental Inhibitors. Effects of Candidate Mosquito Control Agents on Nontarget Aquatic Organisms. *Environ.Entomol.* 3: 631-636.

EcoReference No.: 4749

Chemical of Concern: MTPN; Habitat: A; Effect Codes: POP,REP,MOR; Rejection Code: NO ENDPOINT(MTPN).

Mohamed, A. K. A., Pratt, J. P., and Nelson, F. R. S. (1987). Compatibility of *Metarhizium anisopliae* var. *anisopliae* with Chemical Pesticides. *Mycopathologia* 99: 99-105.

EcoReference No.: 70030

Chemical of Concern: MTPN,CPY,Zineb,Maneb,BMY,CHD,TXP,MOM,CBF,CBL,DZ,TMP,FNTH,RSM;
Habitat: T; Effect Codes: POP,REP; Rejection Code: NO ENDPOINT(ALL CHEMS).

Mohamed, A. K. A., Pratt, J. P., and Nelson, F. R. S. (1987). Compatibility of *Metarhizium anisopliae* var. *anisopliae* with Chemical Pesticides. *Mycopathologia* 99: 99-105.

EcoReference No.: 70030

Chemical of Concern: MTPN,CPY,Zineb,Maneb,BMY,CHD,TXP,MOM,CBF,CBL,DZ,TMP,FNTH,RSM;
Habitat: T; Effect Codes: POP,REP; Rejection Code: NO ENDPOINT(ALL CHEMS).

Mulla, M. S., Darwazeh, H. A., and Dhillon, M. S. (1977). Cemetery Mosquitoes and Their Control with Organophosphorus Larvicides and the Insect Growth Regulator Methoprene. *In: Proc.Pap.Annu.Calif.Conf.Mosq.Vector Control Assoc.* 162-165.

EcoReference No.: 16201

Chemical of Concern: FNTH,TMP,CPY,MTPN; Habitat: A; Effect Codes: GRO,MOR,REP; Rejection Code: NO ENDPOINT(MTPN).

Mulla, M. S., Norland, R. L., Ikeshoji, T., and Kramer, W. L. (1974). Insect Growth Regulators for the Control of Aquatic Midges. *J.Econ.Entomol.* 67: 165-170.

EcoReference No.: 13366

Chemical of Concern: MTPN; Habitat: A; Effect Codes: GRO; Rejection Code: NO ENDPOINT(MTPN).

Mutalik, S., Sulochana, B., Chetana, M., Udupa, N., and Uma Devi, P. (2003). Preliminary Studies on Acute and Subacute Toxicity of an Antidiabetic Herbal Preparation, Dianex. *Indian J.Exp.Biol.* 41: 316-320.

EcoReference No.: 85666; Habitat: T; Effect Codes: BEH,MOR,PHY,CEL; Rejection Code: NO COC(MTPN).

Nayar, J. K., Ali, A., and Zaim, M. (2002). Effectiveness and Residual Activity Comparison of Granular Formulations of Insect Growth Regulators Pyriproxyfen and s-Methoprene Against Florida Mosquitoes in Laboratory and Outdoor Conditions. *J.Am.Mosq.Control Assoc.* 18: 196-201.

EcoReference No.: 71936

Chemical of Concern: MTPN,PYX; Habitat: AT; Effect Codes: GRO; Rejection Code: NO ENDPOINT(ALL CHEMS).

Nishiura, J. T., Ho, P., and Ray, K. (2003). Methoprene Interferes with Mosquito Midgut Remodeling During Metamorphosis. *J.Med.Entomol.* 40: 498-507.

EcoReference No.: 82024

Chemical of Concern: MTPN; Habitat: T; Effect Codes: MOR,GRO; Rejection Code: TARGET(MTPN).

Oberlander, H., Silhacek, D. L., and Leach, C. E. (1998). Interactions of Ecdysteroid and Juvenoid Agonists in *Plodia interpunctella* (Huebner). *Arch.Insect Biochem.Physiol.* 38: 91-99.

EcoReference No.: 82547

Chemical of Concern: TUZ,MFZ,MTPN,FYC; Habitat: T; Effect Codes: GRO,MOR; Rejection Code: OK(TUZ,FYC),OK TARGET(MTPN),NO ENDPOINT(MFZ).

Pelsue, F. W., McFarland, G. C., and Beesley, C. (1974). Field Evaluation of Two Insect Growth Regulators Against

Chironomid Midges in Water Spreading Basins. *Proc.Pap.Annu.Conf.Calif.Mosq.Control Assoc.* 42: 157-163.

EcoReference No.: 8671

Chemical of Concern: MTPN; Habitat: A; Effect Codes: POP; Rejection Code: NO
ENDPOINT(MTPN).

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