

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 (CRLFs 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).

Breard, 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.

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EcoReference No.: 7505 Chemical of Concern: MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT(MTPN).

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EcoReference No.: 7814 Chemical of Concern: ABT,CPY,MTPN,MP,CPYM,FNTH; Habitat: A; Effect Codes: PHY; Rejection Code: NO ENDPOINT(MTPN).

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EcoReference No.: 7690

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

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EcoReference No.: 5152 Chemical of Concern: CPY,DFZ,MLN,MTPN,TMP,FNTH; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 979 Chemical of Concern: DFZ,MTPN; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(MTPN,DFZ).

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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.

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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).

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EcoReference No.: 70030 Chemical of Concern:

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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).

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EcoReference No.: 71936 Chemical of Concern: MTPN,PYX; Habitat: AT; Effect Codes: GRO; Rejection Code: NO ENDPOINT(ALL CHEMS).

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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
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