

APPENDIX J: BIBLIOGRAPHY OF ECOTOX OPEN LITERATURE DATA FOR THIOBENCARB

An explanation of the evaluation of ECOTOX literature for use in the assessment is available in Appendix I.

As a part of the assessment, a review of the studies that involved mixtures was completed. As the studies available on mixture are field or efficacy studies, they do not provide enough information in order to determine whether the mixture was more or less toxic than thioencarb alone.

Explanation of OPP Acceptability Criteria and Rejection Codes for ECOTOX Data

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

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

- The paper does not report the species that was tested; and this species can be verified in a reliable source; (Rejection Code: NO SPECIES)
- The paper does not report effects associated with exposure to a single chemical. (Rejection Code: NO MIXTURE). It should be noted that all papers including data on pesticide mixtures are considered.

Additionally, efficacy studies on target species are excluded and coded as NO TARGET. These are listed in a separate bibliography list below.

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

I. Acceptable for ECOTOX and OPP

- Ahmad, M. and Vyas, S. C. (1997). Control of Dry Rot and Leaf Blight of Sesame by Herbicides. *J.Mycol.Plant Pathol.* 27: 222-224.
EcoReference No.: 98117
Chemical of Concern: ACF,BT,TBC,ODZ,OXF,PDM; Habitat: T; Effect Codes: REP,POP,MOR; Rejection Code: LITE EVAL CODED(OXF,PDM,TBC).
- Ahmed, M. and Vyas, S. C. (1997). Effect of Herbicides on Soil- and Seed-Borne Nature of Fungi. *J.Mycol.Plant Pathol.* 27: 191-194.
EcoReference No.: 98116
Chemical of Concern: OXF,ODZ,TBC,BT,ACF,PDM; Habitat: T; Effect Codes: REP,POP; Rejection Code: LITE EVAL CODED(OXF,PDM,TBC),NO ENDPOINT(BT,ACF),OK(ODZ).
- Aida, M., Ikeda, H., Itoh, K., and Usui, K. (2006). Effects of Five Rice Herbicides on the Growth of Two Threatened Aquatic Ferns. *Ecotoxicol.Environ.Saf.* 63: 463-468.
EcoReference No.: 90223
Chemical of Concern: BSFM,TBC,QOC; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(QOC,TBC),OK(BSFM).
- Anwarulla, M. S. (1998). Chemical Weed Control in Rice Nurseries of the Hill Zone of Karnataka. *Int.Rice Res.Notes* 23: 27-28.
EcoReference No.: 108514
Chemical of Concern: BTC,PDM,TBC,HPDM; Habitat: A; Effect Codes: REP,GRO; Rejection Code: LITE EVAL CODED(TBC).
- Babu, G. R. V., Reddy, G. R., and Chetty, C. S. (1989). Benthocarb Toxicity on Rat Brain AChE. *Biochem.Int.* 19: 77-82.
EcoReference No.: 109817
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Babu, G. R. V., Reddy, G. R., and Chetty, C. S. (1989). Perturbations in Nitrogen Metabolism of Brain and Liver of Rat Following Repeated Benthocarb Administration. *Biochem.Int.* 18: 1253-1268.
EcoReference No.: 108800
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Babu, G. R. V., Reddy, G. R., Srinivas, P. N., and Chetty, C. S. (1989). Metabolic Diversions in the Oxidative Metabolism of Hepatic and Neuronal Systems of Rat (Wistar Strain) Under Induced Benthocarb Stress. *Biochem.Int.* 19: 477-487.
EcoReference No.: 108799
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Battah, M. G., Shabana, E. F., Kobbia, I. A., and Eladel, H. M. (2001). Differential Effects of Thiobencarb Toxicity on Growth and Photosynthesis of *Anabaena variabilis* with Changes in Phosphate Level. *Ecotoxicol.Environ.Saf.* 49: 235-239.
EcoReference No.: 62052

- Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM,ACC,POP,PHY; Rejection Code: LITE EVAL CODED(TBC).
- Bisht, P. S., Pandey, P. C., and Lal, P. (1996). Weed Control in Direct Seeded Puddled Rice. *Int.Rice Res.Notes* 21: 79-80.
EcoReference No.: 108515
Chemical of Concern: TBC; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(TBC).
- Borthwick, P. W., Patrick, J. M. Jr., and Middaugh, D. P. (1985). Comparative Acute Sensitivities of Early Life Stages of Atherinid Fishes to Chlorpyrifos and Thiobencarb. *Arch.Environ.Contam.Toxicol.* 14: 465-473.
EcoReference No.: 11868
Chemical of Concern: CPY,TBC; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CPY,TBC).
- Braverman, M. P. (1995). Weed Control in Rice (*Oryza sativa*) with Quinclorac and Bensulfuron Coating of Granular Herbicides and Fertilizer. *Weed Technol.* 9: 494-498.
EcoReference No.: 74736
Chemical of Concern: MLT,QNC,BSF,TBC; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(QNC,TBC).
- Brown, J. J. (1987). Toxicity of Herbicides Thiobencarb and Endothall when fed to Laboratory-Reared *Trichoplusia ni* (Lepidoptora: Noctuidae). *Pestic.Biochem.Physiol.* 27: 97-100.
EcoReference No.: 70313
Chemical of Concern: EDT,TBC; Habitat: T; Effect Codes: MOR,GRO,BCM; Rejection Code: LITE EVAL CODED(TBC).
- Burdett, A. S., Stevens, M. M., and MacMillan, D. L. (2001). Laboratory and Field Studies on the Effect of Molinate, Clomazone, and Thiobencarb on Nontarget Aquatic Invertebrates. *Environ.Toxicol.Chem.* 20 : 2229-2236.
EcoReference No.: 62293
Chemical of Concern: MLT,TBC,CMZ; Habitat: A; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(MLT,CMZ,TBC).
- Catala Forner, M. del M. (1995). Chemical and Cultural Practices for Red Rice Control in Rice Fields in Ebro Delta (Spain). *Crop Prot.* 14: 405-408.
EcoReference No.: 74737
Chemical of Concern: AMC,MLT,TBC,FNP; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(FNP,TBC),OK(MLT).
- Chen, C. (2002). Delayed Phytotoxicity Syndrome in Louisiana Rice Caused by the Use of Thiobencarb Herbicide. *Ph.D.Thesis,Louisiana State University and Agricultural & Mechanical College, LA* 147 p.
EcoReference No.: 106817
Chemical of Concern: TBC; Habitat: AT; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(TBC).
- Das, N., Pattnaik, A. K., Senapati, A. K., and Dash, D. K. (1997). Management of Rhizosphere Nematode Population by Different Weed Control Practices in Mustard (*Brassica juncea* L.). *Environ.Ecol.* 15: 154-156.
EcoReference No.: 40177
Chemical of Concern: MTL,ACR,PDM,TBC,OXF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(OXF,MTL,PDM,ACR,TBC).
- Das, N., Ray, S., Jena, S. N., and Mohanty, P. K. (1998). Effect of Certain Herbicides on Weeds and Population of Root-Knot Nematode (*Meloidogyne incognita*) in Mustard. *Crop Res.(Hisar)* 16: 156-158.
EcoReference No.: 73788
Chemical of Concern: PDM,MTL,TBC,ACR,ANL,OXF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(MTL,OXF,PDM,ACR,TBC).
- Fernandez-Casalderry, A., Ferrando, M. D., and Andreu-Moliner, E. (1992). Acute Toxicity of Several Pesticides to Rotifer (*Brachionus calyciflorus*). *Bull.Environ.Contam.Toxicol.* 48: 14-17 (OECDG Data File).
EcoReference No.: 5096
Chemical of Concern: DZ,MLN,ES,TBC,MP; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(DZ,MLN,MP,ES,TBC).
- Fernandez-Vega, C., Sancho, E., Ferrando, D., and Andreu, E. (2002). Physiological Effects of Thiobencarb Stress in the Eel (*Anguilla anguilla*). *J.Pestic.Sci.* 27: 31-38.

- EcoReference No.: 72785
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Fernandez-Vega, C., Sancho, E., Ferrando, M. D., and Andreu, E. (2002). Thiobencarb-Induced Changes in Acetylcholinesterase Activity of the Fish *Anguilla anguilla*. *Pestic.Biochem.Physiol.* 72: 55-63.
EcoReference No.: 68295
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Fernandez-Vega, C., Sancho, E., Ferrando, M. D., and Andreu-Moliner, E. (1999). Thiobencarb Toxicity and Plasma AChE Inhibition in the European Eel. *J.Environ.Sci.Health Part B* 34: 61-73.
EcoReference No.: 61820
Chemical of Concern: TBC; Habitat: A; Effect Codes: MOR,BCM; Rejection Code: LITE EVAL CODED(TBC).
- Ferrando, M. D., Sancho, E., Villarroel, M. J., Sanchez, M., and Andreu, E. (1999). Comparative Toxicity of Two Herbicides, Molinate and Thiobencarb, to *Brachionus calyciflorus*. *J.Environ.Sci.Health Part B* 34: 569-586.
EcoReference No.: 61819
Chemical of Concern: TBC,MLT; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(MLT,TBC).
- Finlayson, B. J. and Faggella, G. A. (1986). Comparison of Laboratory and Field Observations of Fish Exposed to the Herbicides Molinate and Thiobencarb. *Trans.Am.Fish.Soc.* 115: 882-890.
EcoReference No.: 12136
Chemical of Concern: MLT,TBC; Habitat: A; Effect Codes: BCM,MOR; Rejection Code: LITE EVAL CODED(MLT,TBC).
- Foster, S., Thomas, M., and Korth, W. (1998). Laboratory-Derived Acute Toxicity of Selected Pesticides to *Ceriodaphnia dubia*. *Australas.J.Ecotoxicol.* 4: 53-59.
EcoReference No.: 67777
Chemical of Concern: TBC,MLT,MTL,MLN,BSF,BMC,ATZ,DU,SZ,CPY; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(CPY,BMC,MTL,ATZ,SZ,MLN,DU,TBC),OK(MLT,BSF).
- Fujimura, R., Finlayson, B., and Chapman, G. (1991). Evaluation of Acute and Chronic Toxicity Tests with Larval Striped Bass. In: *M.A.Mayes and M.G.Barron (Eds.), Aquatic Toxicology and Risk Assessment, Vol.14, ASTM STP 1124, Philadelphia, PA* 193-211.
EcoReference No.: 15472
Chemical of Concern: CBF,MLN,MLT,TBC,CuS,ES; Habitat: A; Effect Codes: MOR,GRO; Rejection Code: LITE EVAL CODED(MLT,CBF,CuS,MLN,ES,TBC).
- Gill, H. S., Bhatia, R. K., and Mehra, S. P. (1985). Effect of Some Herbicides on Germination and Seedling Growth of Paddy (*Oryza sativa* L.) and *Echinochloa crusgalli* L. *J.Res.Punjab Agric.Univ.* 22: 167-170.
EcoReference No.: 109594
Chemical of Concern: ODZ,TBC,BTC,PDM; Habitat: AT; Effect Codes: GRO,REP; Rejection Code: LITE EVAL CODED(TBC),OK(ODZ,BTC,PDM).
- Guy, C. B. Jr., Helms, R. S., and Beaty, J. D. (1994). Rice Cultivar Response to Rice Herbicides and Simulated Rice Herbicide Drift to Sensitive Crops. *Ark.Agric.Exp.Stn.Res.Ser.* 439: 43-50.
EcoReference No.: 74746
Chemical of Concern: TPR,ADC,PPN,MLT,TBC,24D,QNC; Habitat: AT; Effect Codes: PHY,POP; Rejection Code: LITE EVAL CODED(24D,TBC),NO MIXTURE(ADC,PPN),OK(MLT),TARGET(QNC,TPR).
- Hanazato, T. (1991). Pesticides as Chemical Agents Inducing Helmet Formation in *Daphnia ambigua*. *Freshw.Biol.* 26: 419-424.
EcoReference No.: 17470
Chemical of Concern: ODZ,CBL,TBC,DZ,FNTH,FNT,TMP; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(CBL,DZ,FNT,TBC),OK(ODZ,FNTH),NO ENDPOINT(TMP).
- Hatakeyama, S., Fukushima, S., Kasai, F., and Shiraishi, H. (1994). Assessment of Herbicide Effects on Algal Production in the Kokai River (Japan) Using a Model Stream and *Selenastrum* Bioassay. *Ecotoxicology* 3: 143-156.
EcoReference No.: 16019
Chemical of Concern: SZ,MLT,TBC,BTC; Habitat: A; Effect Codes: POP,BCM; Rejection Code: LITE

- EVAL CODED(MLT,TBC),NO ENDPOINT(SZ).
- Hatakeyama, S. and Sugaya, Y. (1989). A Freshwater Shrimp (*Paratya compressa improvisa*) as a Sensitive Test Organism to Pesticides. *Environ.Pollut.* 59: 325-336.
EcoReference No.: 984
Chemical of Concern: CuS,CBL,DZ,TBC,FNTH,ZnS,BTC,TBC,CdCl,ODZ,FNT; Habitat: A; Effect Codes: MOR,PHY; Rejection Code: LITE EVAL CODED(CBL,DZ,CuS,ZnS,TBC),OK(FNTH,BTC,CdCl,ODZ),NO ENDPOINT,NO CONTROL(FNT).
- Hill, J. E., Roberts, S. R., Bayer, D. E., and Williams, J. F. (1990). Crop Response and Weed Control from new Herbicide Combinations in Water-Seeded Rice (*Oryza sativa*). *Weed Technol.* 4: 838-842.
EcoReference No.: 74652
Chemical of Concern: MLT,TBC,BT,BSF; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(TBC,BT),NO COC(BS).
- Hirata, H., Yamasaki, S., and Kohirata, E. (1984). Effects of Benthocarb Herbicide on Growth of Planktonic Organisms, *Chlorella saccharophila* and *Brachionus plicatilis*. *Mem.Fac.Fish Kagoshima Univ.* 33: 51-56.
EcoReference No.: 15718
Chemical of Concern: TBC,CBZ; Habitat: A; Effect Codes: POP,REP,BEH; Rejection Code: LITE EVAL CODED(TBC).
- Imeokparia, P. O. (1989). Herbicide Evaluation in Rain-Fed Transplanted Lowland Rice. *Tests Agrochem.Cultiv.* 10: 86-87.
EcoReference No.: 108792
Chemical of Concern: PPN,BTC,TBC; Habitat: AT; Effect Codes: POP; Rejection Code: LITE EVAL CODED(TBC),OK(PPN,BTC).
- Ishida, Y. and Kobayashi, H. (1995). Avoidance Behavior of Carp to Pesticides and Decrease of the Avoidance Threshold by Addition of Sodium Lauryl Sulfate. *Fish.Sci.* 61: 441-446.
EcoReference No.: 19483
Chemical of Concern: NHCl,HCL,FNT,TBC; Habitat: A; Effect Codes: BEH,MOR; Rejection Code: LITE EVAL CODED(TBC),OK(HCL,FNT).
- Ishida, Y., Yoshikawa, H., and Kobayashi, H. (1996). Electrophysiological Responses of Three Chemosensory Systems in the Carp to Pesticides. *Physiol.Behav.* 60: 633-638.
EcoReference No.: 50515
Chemical of Concern: NaCl,TBC,FNT; Habitat: A; Effect Codes: PHY; Rejection Code: LITE EVAL CODED(FNT,TBC,NaCl).
- Kathiresan, R. M., Ramah, K., and Sivakumar, C. (2001). Integration of Azolla, Fish and Herbicides for Rice Weed Management. *BCPC Conf.-Weeds* 2: 625-632.
EcoReference No.: 98115
Chemical of Concern: OXF,BTC,TBC; Habitat: A; Effect Codes: MOR,POP; Rejection Code: LITE EVAL CODED(OXF,TBC),OK(BTC).
- Kaya, B., Marcos, R., Yanikoglu, A., and Creus, A. (2004). Evaluation of the Genotoxicity of Four Herbicides in the Wing Spot Test of *Drosophila melanogaster* Using Two Different Strains. *Mutat.Res.* 557: 53-62.
EcoReference No.: 74251
Chemical of Concern: MLT,TBC,TFN,BT; Habitat: T; Effect Codes: CEL; Rejection Code: LITE EVAL CODED(MLT,TBC,TFN,BT).
- Kolhe, S. S., Bhadauria, S. S., Mitra, B. N., and Tripathi, R. S. (1987). Comparative Efficiency of Different Herbicides in Controlling Weeds in Transplanted Paddy. *Trop.Agric.* 64: 287-290.
EcoReference No.: 104652
Chemical of Concern: PPN,BTC,TBC; Habitat: A; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(PPN,TBC),OK(BTC).
- Littrell, E. E. (1983). A Study of the Effects of Bolero 10G on the Mountain Garter Snake, *Thamnophis elegans elegans*. *Calif.Fish Game* 69: 186-187.
EcoReference No.: 37734
Chemical of Concern: TBC; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBC).
- Luo, X. Y. and Ikeda, H. (2007). Effects of Four Rice Herbicides on the Growth of an Aquatic Fern, *Marsilea quadrifolia* L. *Weed Biol.Manag.* 7: 237-241.
EcoReference No.: 109905
Chemical of Concern: TBC; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL

- CODED(TBC).
- Mahapatra, P. K. (1991). Weed Control in Intercropping Systems Based on Pigeonpea (*Cajanus cajan*). *Indian J.Agric.Sci.* 61: 885-888.
EcoReference No.: 109229
Chemical of Concern: TBC; Habitat: AT; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(TBC).
- Mansour, F. A., Soliman, A. R. I., Shaaban-Desouki, S. A., and Hussein, M. H. (1994). Effect of Herbicides on Cyanobacteria. I. Changes in Carbohydrate Content, PMase and GOT Activities in *Nostoc kihlmani* and *Anabaena oscillarioides*. *Phykos* 33: 153-162.
EcoReference No.: 109902
Chemical of Concern: BTC,TBC,ODZ; Habitat: AT; Effect Codes: BCM,ACC; Rejection Code: LITE EVAL CODED(TBC).
- McKenney, C. L. J. (1988). Associations Between Physiological Alterations and Population Changes in an Estuarine Mysid During Chronic Exposure to a Pesticide. In: *F.J.Vernberg, F.P.Thurberg, A.Calabrese and W.Vernberg (Eds.), Marine Pollution and Physiology: Recent Advances, Univ.of S.Carolina Press:397-418 (1985) / Aquat.Toxicol.* 11: 417-418 (ABS) (Author Communication Used).
EcoReference No.: 4323
Chemical of Concern: TBC; Habitat: A; Effect Codes: MOR,REP,PHY,GRO; Rejection Code: LITE EVAL CODED(TBC).
- Metlev, V. V. and Brichko, V. F. (1980). Effect of Benthocarb on Fish. *Veterinariya (Mosc.)* 12: 58-60 (RUS).
EcoReference No.: 6577
Chemical of Concern: TBC; Habitat: A; Effect Codes: ACC,MOR,CEL; Rejection Code: LITE EVAL CODED(TBC).
- Miyoshi, N., Kawano, T., Tanaka, M., Kadono, T., Kosaka, T., Kunimoto, M., Takahashi, T., and Hosoya, H. (2003). Use of Paramecium Species in Bioassays for Environmental Risk Management: Determination of IC50 Values for Water Pollutants. *J.Health Sci.* 49: 429-435.
EcoReference No.: 82825
Chemical of Concern: IGS,K2Cr2O7,Maneb,NiCl,CdCl,24D,TBC,PAQT,HCCH,MLN; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(IGS,K2Cr2O7,Maneb,NiCl,CdCl,24D,TBC,PAQT,HCCH,MLN).
- Mohapatra, P. C., Panigrahi, S., and Padhy, R. N. (1999). Herbicides Impair Formation and Germination of Akinetes of Cyanobacterium (Blue-Green Alga) *Cylindrospermum* sp. *Arch.Hydrobiol.(Suppl.128) /Algol.Stud.* 93: 131-138.
EcoReference No.: 110317
Chemical of Concern: TBC; Habitat: A; Effect Codes: POP,MOR; Rejection Code: LITE EVAL CODED(TBC).
- Moody, D. E., Narloch, B. A., Shull, L. R., and Hammock, B. D. (1991). The Effect of Structurally Divergent Herbicides on Mouse Liver Xenobiotic-Metabolizing Enzymes (P-450-Dependent Mono-Oxygenases, Epoxide Hydrolases and Glutathione S-Transferases) and Carnitine Acetyltransferase. *Toxicol.Lett.* 59: 175-185.
EcoReference No.: 77500
Chemical of Concern: DPP1,TBC,CFRM,MCP1,ACR,ATZ,MLT,TFN,DMB; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(DPP1,MCP1,ATZ,CFRM,DMB,ACR,TFN,TBC)OK(MLT).
- Nagpal, V. and Goyal, S. K. (1995). Induction of Weedicide Resistance in a Diazotrophic cyanobacterium - *Anabaena variabilis*. *Phykos* 34: 113-121.
EcoReference No.: 109819
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Omar, D. and Mohamad, R. B. (1996). Effect of Thiobencarb Formulations on Freshwater Shrimp, *Macrobrachium lanchesteri* (De Man). *Pertanika J.Trop.Agric.Sci.* 19: 205-207.
EcoReference No.: 108795
Chemical of Concern: TBC; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(TBC).
- Omar, D., Mohamad, R. B., and Eng, O. K. (1996). Effects of Thiobencarb Formulations on Seed Germination and Seedling Growth of *Echinochloa crus-galli* (L.) Beauv. and *E. Colona* (L.) Link. *Malays.Appl.Biol.* 25 :

- 35-38.
EcoReference No.: 109614
Chemical of Concern: TBC; Habitat: T; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(TBC).
- Omar, M. N. A., Berge, O., Hassanein, E. E., and Shalan, S. N. (1992). In Vitro and In Situ Effects of Herbicide Thiobencarb on Rice-Azospirillum Association. *Symbiosis* 13: 55-63.
EcoReference No.: 109613
Chemical of Concern: TBC; Habitat: AT; Effect Codes: POP,BCM; Rejection Code: LITE EVAL CODED(TBC).
- Pathak, D., Roy, A. K., and Deka, S. C. (1996). Effect of Herbicides on the Growth and Sclerotial Survival of Rhizoctonia solani Kuehn. *Ann.Biol.* 12: 245-251.
EcoReference No.: 108794
Chemical of Concern: BTC,TBC,PAQT,24D; Habitat: T; Effect Codes: GRO,POP; Rejection Code: LITE EVAL CODED(TBC),OK(BTC,PAQT,24D).
- Pena, S., Pena, J. B., Rios, C., Sancho, E., Fernandez, C., and Ferrando, M. D. (2000). Role of Glutathione in Thiobencarb Resistance in the European Eel Anguilla anguilla. *Ecotoxicol.Environ.Saf.* 46: 51-56.
EcoReference No.: 53064
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM,MOR; Rejection Code: LITE EVAL CODED(TBC).
- Pentyala, S. N. and Chetty, C. S. (1993). Comparative Study on the Changes in AChE and ATPase Activities in Neonate and Adult Rat Brains Under Thiobencarb Stress. *J.Appl.Toxicol.* 13: 39-42.
EcoReference No.: 109820
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(TBC).
- Perschbacher, P. W., Ludwig, G. M., and Slaton, N. (2002). Effects of Common Aerially Applied Rice Herbicides on the Plankton Communities of Aquaculture Ponds. *Aquaculture* 214: 241-246.
EcoReference No.: 71507
Chemical of Concern: DMDP,CMZ,TBC,PDM,PPN,HSF,QNC,BSFM,TPRT,MLT; Habitat: A; Effect Codes: SYS,POP; Rejection Code: LITE EVAL CODED(PPN,PDM,DMDP,TPRT,TBC),OK(CMZ,QNC,MLT).
- Persichino, J., Christian, E., and Carter, R. (1998). Short-Term Effects of Bolero on the Gill Apparatus of a Small Number of Mosquitofish (Gambusia affinis). *Bull.Environ.Contam.Toxicol.* 61: 162-168.
EcoReference No.: 19807
Chemical of Concern: TBC; Habitat: A; Effect Codes: CEL,PHY,MOR; Rejection Code: LITE EVAL CODED(TBC).
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Chemical of Concern: BSF,FXP,OXF,ANL,TBC,BTC; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(OXF,TBC),OK(BTC,ANL,FXP),NO MIXTURE(BSF).
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Chemical of Concern: CBL,EP,MP,PRT,TBC,PMR,TBF; Habitat: A; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(TBF,CBL,PRT,MP,PMR,EP,TBC).
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EcoReference No.: 3644
Chemical of Concern: CPY,TBC,TDC,PMR,FNV,EFV; Habitat: A; Effect Codes: MOR,GRO,POP; Rejection Code: NO CONTROL(CPY,TBC,TDC,PMR),NO ENDPOINT,NO CONTROL(EFV).
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Chemical of Concern: PPN,ODZ,TBC,BTC,24D; Habitat: AT; Effect Codes: GRO; Rejection Code: NO MIXTURE(TBC,24D),OK(PPN,ODZ,BTC).
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Chemical of Concern:
PFF,FPP,PSM,SPS,MPO,PRN,MP,DEF,DEM,ACP,CBL,CBF,MOM,PTPMR,TBC,EDTA,HgCl₂,CuCl₂,Hg,Cu,CdCl₂,MnCl₂,ZnCl₂,PBN,CoCl₂,MgCl₂,SFL,CN,CYP,PPB,PTR,PCPMR,PMR,TLM,FNV,FVL,ATN,RSM,EFV REFRESH 2009; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(ALL CHEMS),NO IN VITRO(MP,CBL,CBF,MOM,SFL,CYP,PCPMR,PMR),NO MIXTURE(PSM).
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Chemical of Concern: ES,PNB,TBC; Habitat: T; Effect Codes: MOR; Rejection Code: NO ENDPOINT(ES,TBC).
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Chemical of Concern: BP,TBC; Habitat: AT; Effect Codes: POP,PHY; Rejection Code: NO ENDPOINT(TBC).
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- EcoReference No.: 73767
Chemical of Concern: MTL,PPZ,GYP,MBZ,MSMA,PPN,TBC,TFN,FMV,SXD; Habitat: T; Effect Codes: POP; Rejection Code: NO CONTROL(ALL CHEMS).
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Chemical of Concern: TBC,TFN,ODZ,PPN; Habitat: A; Effect Codes: MOR; Rejection Code: NO COC(MLN),OK(ODZ),NO ENDPOINT(PPN,TBC,TFN).
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Chemical of Concern: TBC; Habitat: A; Effect Codes: ACC; Rejection Code: NO ENDPOINT(TBC).
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Chemical of Concern: MLT,TBC; Habitat: A; Effect Codes: MOR; Rejection Code: NO REVIEW(MLT,TBC).
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Chemical of Concern:
DDT,TPN,FNTH,24DXY,PRN,PAQT,CBL,PYN,Zineb,CZE,FBM,PPX,MOM,ES,TBC,MLN,FE,SZ,NaP

- CP,Captan,AND,DZ,ETN,FLAC,PPN,FNT,RTN,EN,PQT,TFN,PPX,TDC; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(ALL CHEMS).
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EcoReference No.: 100551
Chemical of Concern: PAQT,QNC,TBC,PDM,PPN; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(QNC,PDM,PPN,PAQT,TBC).
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EcoReference No.: 11710
Chemical of Concern: PCP,24DXY,DZ,TBC,CBL,FNT; Habitat: A; Effect Codes: BEH; Rejection Code: NO ENDPOINT,NO CONTROL(24DXY,DZ,FNT,TBC).
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Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 827
Chemical of Concern: TBC; Habitat: A; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
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EcoReference No.: 12810
Chemical of Concern: RSM,GYP,MLN,TBC,PPX,BDC; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(GYP,RSM),NO CONTROL(MLN,TBC,PPX).
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Chemical of Concern: TBC; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
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EcoReference No.: 64651
Chemical of Concern: IMS,BSFM,TBC,MCPB,BT,MCPA,CYHB; Habitat: A; Effect Codes: GRO,MOR,POP; Rejection Code: OK(IMS),NO MIXTURE(MCPB,BT,TBC).
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Chemical of Concern: BS,TBC,SID,BSO; Habitat: T; Effect Codes: MOR,PHY; Rejection Code: NO ENDPOINT,NO CONTROL(SID,BS,TBC,BSO).
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Chemical of Concern: Isoproturon; Habitat: T; Effect Codes: POP,ACC,GRO; Rejection Code: NO COC(TBC).
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EcoReference No.: 74959
Chemical of Concern: MLT,PPN,TBC,QNC,24DXY,TPR; Habitat: T; Effect Codes: GRO; Rejection Code: NO ENDPOINT (ALL CHEMS).
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EcoReference No.: 12534
Chemical of Concern: HCCH,CBL,TFN,FNT,TBC,MLT,PNB,DZ,DLDD; Habitat: A; Effect Codes:

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EcoReference No.: 15599
Chemical of Concern: DLD,DZ,MLT,FNT,CBL,TBC,PNB,HCCH,TFN; Habitat: A; Effect Codes: MOR,ACC; Rejection Code: NO CONTROL(DLD,DZ,MLT,FNT,CBL,TBC,PNB,HCCH,TFN).
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Chemical of Concern: HCCH,MLT,TFN,CBL,DLD,DZ,FNT,TBC,PNB; Habitat: A; Effect Codes: ACC,BCM,GRO; Rejection Code: NO CONTROL(HCCH,MLN,TFN,CBL,DLD,DZ,FNT,TBC,PNB).
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EcoReference No.: 59925
Chemical of Concern: PNB,DZ,MLT,TBC,HCCH,TFN,FNT,CBL,DLD; Habitat: A; Effect Codes: ACC,MOR; Rejection Code: NO CONTROL(PNB,DZ,MLT,TBC,HCCH,TFN,FNT,CBL,DLD).
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Chemical of Concern: TBC; Habitat: A; Effect Codes: POP; Rejection Code: NO CONTROL(TBC).
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EcoReference No.: 109945
Chemical of Concern: TBC,BTC; Habitat: T; Effect Codes: GRO,POP; Rejection Code: NO MIXTURE(TBC).
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Chemical of Concern: MLT,TBC; Habitat: T; Effect Codes: GRO,CEL; Rejection Code: NO ENDPOINT, TARGET(TBC).
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EcoReference No.: 104616
Chemical of Concern: BTC,TBC,ODZ,PDM; Habitat: A; Effect Codes: GRO,PHY; Rejection Code: OK(PDM),NO CONC(TBC,BTC,ODZ).
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EcoReference No.: 6912
Chemical of Concern: MLT,TBC,TFN,FNTH; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT(TBC),NO ENDPOINT,NO CONTROL(TFN).
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Chemical of Concern: TBC; Habitat: A; Effect Codes: CEL; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
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EcoReference No.: 74168
Chemical of Concern: MLT,IZP,IMQ,BSFM,BTC,DTP,TBC,24DXY,BT,IMS; Habitat: AT; Effect Codes: GRO,POP,BCM,PHY; Rejection Code: NO CONTROL(ALL CHEMS).
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EcoReference No.: 74722
Chemical of Concern: MLT,TBC,BTC,CFZ,DTP,ODZ,IZP; Habitat: T; Effect Codes:

- POP,GRO,MOR,BCM; Rejection Code: NO
ENDPOINT(DTP,MLT,TBC,ODZ,CFE,BTC,IMQ),TARGET(IZP).
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EcoReference No.: 71288
Chemical of Concern: BSFM,IZP,IMQ,BTC,CFZ,TBC,MLT,MCPB,IMS; Habitat: A; Effect Codes: BCM,GRO,MOR; Rejection Code: LITE EVAL CODED(IMS),NO MIXTURE(MLT,MCPB),NO ENDPOINT(TBC),OK(IZP,IMQ).
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EcoReference No.: 109228
Chemical of Concern: BTC,ODZ,TBC; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: NO MIXTURE(TBC).
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EcoReference No.: 87853
Chemical of Concern: FFC,ANL,ACR,TBC,TRL,EFS; Habitat: T; Effect Codes: GRO,CEL,BCM; Rejection Code: NO ENDPOINT(ALL CHEMS).
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EcoReference No.: 5345
Chemical of Concern: ACR,CBL,ODZ,TBC,DZ,ES,BTC,GYP,FNT; Habitat: A; Effect Codes: PHY; Rejection Code: NO CONTROL(GYP,DZ,ES,FNT,ACR,TBC).
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EcoReference No.: 76078
Chemical of Concern: BTC,TBC; Habitat: A; Effect Codes: ACC; Rejection Code: NO CONTROL(TBC).
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EcoReference No.: 109818
Chemical of Concern: TBC,BTC; Habitat: T; Effect Codes: GRO; Rejection Code: NO CONTROL(TBC).
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Chemical of Concern: TBC; Habitat: AT; Effect Codes: POP; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 444
Chemical of Concern: 24DXY,TBC; Habitat: A; Effect Codes: PHY,MOR; Rejection Code: NO ENDPOINT,NO CONTROL(24DXY,TBC).
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EcoReference No.: 98467
Chemical of Concern: PDM,TBC,OXF,24D; Habitat: T; Effect Codes: PHY,GRO,POP; Rejection Code: NO ENDPOINT(OXF,PDM,24D,TBC).
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EcoReference No.: 109956
Chemical of Concern: TBC,BTC,ODZ; Habitat: AT; Effect Codes: GRO,BCM; Rejection Code: NO ENDPOINT(TBC).
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- EcoReference No.: 60040
Chemical of Concern: TBC,CYC,DU,DFZ,SID,CPP,FYC,MLT; Habitat: A; Effect Codes: MOR,BCM;
Rejection Code: LITE EVAL CODED(SID,DU),NO IN VITRO(MTL,FYC,CPP,DFZ,CYC,TBC).
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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,DQTB; Habitat: A; Effect Codes: MOR; Rejection Code: NO
ENDPOINT,NO
CONTROL(QOC,BS,CYA,EPTC,LNR,24DXY,BSO,DU,DCPA,PPN,PMT,ACR,PQT,TBC,TFN,DQTB)
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EcoReference No.: 7591
Chemical of Concern: Captan,DZ,TBC,NaPCP,CPY,CPYM,FNT; Habitat: A; Effect Codes: MOR;
Rejection Code: NO FOREIGN,NO CONTROL(Captan),NO CONTROL(CPYM,DZ,CPY,FNT,TBC).
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EcoReference No.: 10258
Chemical of Concern:
3CE,AC,AMTL,AMTR,AND,As,ATZ,BMC,BS,Captan,CBL,CPA,CPY,CTN,Cu,DBN,DCPA,DDT,DDV
P,DLD,DMB,DMT,DPA,DSMA,DU,DZ,EDB,EDC,EN,EPTC,ES,ETN,Fe,FLAC,FML,FNT,FNTH,HCC
H,Hg,HPT,LNR,MCA,MCPB,MCPPI,MDT,MLN,MOM,MP,MTAS,NALED,Ni,NTCN,OPHP,Pb,PCB,P
CP,PCZ,PEB,PHMD,PHSL,PHTH,PMT,PNB,PPX,PPZ,PRN,PSM,PYN,SFL,SID,STREP,SZ,TBC,TFN,T
HM,TPE,TPH,TPM,TRN,Zn; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL (ALL
CHEMS)//NO RESIDUE (PCBRES).
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EcoReference No.: 6954
Chemical of Concern:
ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DDVP,DMT,DU,DZ,Folpet,HCCH,LNR,MA
L,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,DQTB; Habitat: A;
Effect Codes: MOR; Rejection Code: NO
CONTROL(RTN,Ziram,EPTC,PPG,LNR,PSM,CPYM,CPY,DMT,MLN,BMC,CTN,QOC,Captan,Folpet,A
TZ,TVPM,DZ,DU,STRP,SFR,ACP,DDVP,TCF,BMY,PPN,DCF,PMT,ACR,PQT,TBC,TFN,PPX,DQTB,
TDC).
- Nishiuchi, Y. and Yoshida, K. (1972). Toxicities of Pesticides to Some Fresh Water Snails.
Bull.Agric.Chem.Insp.Stn. 12: 86-92 (JPN) (ENG ABS) (ENG TRANSL) (Author Communication Used).
EcoReference No.: 9158
Chemical of Concern:
ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,CZE,DCF,DDT,DDVP,DEM,DINO,DMT,DOD,DZ,EN,
ES,ETN,FNT,Folpet,HCCH,MDT,MOM,MP,NPH,PAQT,PCP,PEB,PHMD,PHSL,PPN,PQT,PRN,PYN,Q
OC,RTN,TBC,TBT,TCF,TDC,TDE,TFN,Zineb,Ziram,Zn; Habitat: A; Effect Codes: PHY,GRO;
Rejection Code: NO
CONTROL(ACP,AMTR,AND,Captan,CBL,CTN,CuOH,CuS,CZE,DCF,DDT,DDVP,DEM,DINO,DMT,
DOD,DZ,EN,ES,ETN,FNT,Folpet,HCCH,MDT,MOM,MP,NPH,PAQT,PCP,PEB,PHMD,PHSL,PPN,PQT
,PRN,PYN,QOC,RTN,TBC,TBT,TCF,TDC,TDE,TFN,Zineb,Ziram,Zn).
- Noldin, J. A., Chandler, J. M., Ketchersid, M. L., and McCauley, G. N. (1999). Red Rice (*Oryza sativa*) Biology. II. Ecotype Sensitivity to Herbicides. *Weed Technol.* 13: 19-24.
EcoReference No.: 64225
Chemical of Concern: MLT,TBC,FZFP,FNP,SXD,IZT,PAQT,GYP,GFS; Habitat: T; Effect Codes:
POP; Rejection Code: NO CONTROL(ALL CHEMS).
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EcoReference No.: 13467
Chemical of Concern: MLT,MP,TBC,CBF; Habitat: A; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(CBF,MP),NO CONTROL(MLT,TBC).
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EcoReference No.: 100609
Chemical of Concern: GFS,TBC,PPN,QNC; Habitat: AT; Effect Codes: POP; Rejection Code: NO ENDPOINT(PPN,TBC,QNC),TARGET(GFS).
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EcoReference No.: 7130
Chemical of Concern: TBC; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
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EcoReference No.: 3228
Chemical of Concern: BTC,EPTC,PAQT,DCPA,GYP,LNR,NPM,24DXY,AMTL,PCP,MCPPI,DU,PQT,TBC; Habitat: A; Effect Codes: GRO; Rejection Code: NO COC(CBL),NO ENDPOINT,NO CONTROL(EPTC,GYP,LNR,24DXY,DU,PQT,TBC).
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EcoReference No.: 108642
Chemical of Concern: TBC; Habitat: A; Effect Codes: GRO; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 16863
Chemical of Concern: 24DXY,TBC,QNC; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(24DXY,QNC,TBC).
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EcoReference No.: 17010
Chemical of Concern: BSF,BTC,24DXY,FNP,MLT,ODZ,PPN,TBC,QVC; Habitat: A; Effect Codes: POP,MOR; Rejection Code: NO ENDPOINT,NO CONTROL(FNP,24DXY,PPN,TBC).
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EcoReference No.: 40916
Chemical of Concern: BT,TBC,PQT; Habitat: T; Effect Codes: MOR,BCM,GRO,PHY; Rejection Code: NO ENDPOINT,NO CONTROL(PQT,TBC).
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EcoReference No.: 16056
Chemical of Concern: FNT,ANZ,DDVP,DLD,24DXY,CBF,CPY,CTN,DMT,DZ,HCCH,MLN,MLT,MP,MTM,PMT,TBC,DM,E FV,BPZ,PPN,OMT,PCH,FPP,NaPCP,CaPS,OMT,Zn,DDT,Zineb,PPHD,FNV,CYH,BTC,TDF,Ni,SFR,ES,TCF,CBD,BMY; Habitat: A; Effect Codes: MOR; Rejection Code: NO ENDPOINT,NO CONTROL(CPY,CBF,DM,E FV),NO CONTROL(24DXY,DZ,MTM,SFR,DDVP,ES,TCF,FNT,CBD,BMY,PPN,MLN,PMT,TBC).
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EcoReference No.: 108689
Chemical of Concern: TBC; Habitat: T; Effect Codes: CEL,ACC; Rejection Code: NO

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EcoReference No.: 109951
Chemical of Concern: TBC; Habitat: AT; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 108690
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 109055
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 109950
Chemical of Concern: TBC; Habitat: AT; Effect Codes: BCM,CEL; Rejection Code: NO ENDPOINT(TBC).
- Prakash, T. R., Swamy, P. M., and Prasad, D. D. K. (1990). Selective Inhibition of Porphyrin Biosynthesis by Benthocarb (Saturn) in Rice and Barnyard Grass Seedlings. *Pestic.Biochem.Physiol.* 36: 29-34.
EcoReference No.: 108643
Chemical of Concern: TBC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
- Quistad, G. B., Sparks, S. E., and Casida, J. E. (1994). Aldehyde Dehydrogenase of Mice Inhibited by Thiocarbamate Herbicides. *Life Sci.* 55: 1537-1544.
EcoReference No.: 74291
Chemical of Concern: EPTC,TBC,PEB,VNT,MLT,BTY,TRL,CYC; Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT (ALL CHEMS).
- Rao, K. S., Moorthy, K. S., Naidu, M. D., Chetty, C. S., and Swami, K. S. (1983). Changes in Nitrogen Metabolism in Tissues of Fish (Sarotherodon mossambicus) Exposed to Benthocarb. *Bull.Environ.Contam.Toxicol.* 30: 473-478.
EcoReference No.: 15518
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
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EcoReference No.: 2944
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 109223
Chemical of Concern: TBC; Habitat: T; Effect Codes: PHY,CEL; Rejection Code: NO ENDPOINT(TBC).
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EcoReference No.: 60974
Chemical of Concern: FNT,ATZ,CSF,MLT,TBC; Habitat: A; Effect Codes: GRO,ACC; Rejection Code: LITE EVAL CODED(FNT),NO PUBL AS(ATZ,MLT,TBC),OK(CSF).
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EcoReference No.: 41017
Chemical of Concern: TBC; Habitat: T; Effect Codes: GRO; Rejection Code: NO ENDPOINT(TBC).
- Shukla, A. K. and Mishra, R. R. (1996). Evaluation of Some Biocides Against Pathogen Alternaria alternata. *Crop Res.* 12: 76-81.
EcoReference No.: 109610
Chemical of Concern: BMY,24D,MZB,TBC; Habitat: T; Effect Codes: POP,REP,GRO; Rejection Code:

- TARGET(BMY,MZB),NO ENDPOINT(24D,TBC).
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Chemical of Concern: TBC,24D; Habitat: T; Effect Codes: POP; Rejection Code: NO
ENDPOINT(TBC,24D).
- Singh, A. L., Singh, P. K., and Singh, P. L. (1988). Effects of Different Herbicides on the Azolla and Blue-Green Algal Biofertilization of Rice. *J.Agric.Sci.* 111: 451-458.
EcoReference No.: 104909
Chemical of Concern: ODZ,TBC,BTC,PDM,24D; Habitat: A; Effect Codes: GRO; Rejection Code: NO
ENDPOINT(PDM,24D,TBC).
- Singh, R. K., Singh, B. D., and Singh, H. N. (1983). Inhibition of Photosystem II of Nitrogen-Fixing Blue-Green Alga *Nostoc linckia* by the Rice-Field Herbicide Benthocarb. *Z.Allg.Mikrobiol.* 23: 435-441.
EcoReference No.: 71816
Chemical of Concern: TBC; Habitat: A; Effect Codes: POP,PHY; Rejection Code: NO
ENDPOINT(TBC).
- Smith, R. J. Jr. and Khodayari, K. (1985). Herbicide Treatments for Control of Weeds in Dry-Seeded Rice (*Oryza sativa*). *Weed Sci.* 33: 686-692.
EcoReference No.: 74651
Chemical of Concern: ACF,BT,BTC,MLT,ODZ,PDM,PPN,TBC,TPR; Habitat: A; Effect Codes: POP,GRO,PHY; Rejection Code: NO MIXTURE(PDM,TBC,TPR).
- Sprankle, P. L. (1974). AC 92,553, A Selective Herbicide for Weed Control in Cereals and Other Crops. *Proc.Br.Weed Control Conf.* 12: 825-830.
EcoReference No.: 40588
Chemical of Concern: ACR,PDM,TBC; Habitat: T; Effect Codes: GRO,MOR,POP; Rejection Code: NO ENDPOINT,NO CONTROL(PDM,ACR,TBC).
- 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,DQTB; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(EPTC,BMC,SZ,24DXY,DU,PPN,TBC,DQTB).
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EcoReference No.: 13451
Chemical of Concern: BT,CBF,EP,GYP,PSM,TBC,CYP,DM,FPP,FVL,PMR,TMT,24DXY,ATN,FNF,PAQT,MZB,Maneb,BTC,TBC,FNV,Zn,PQT; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN(BT,PSM,CYP,FPP,FVL,PMR,TMT,24DXY,ATN,FNF,PAQT,MZB,Maneb,BTC,TBC,FNV,Zn),NO CONTROL(PSM,EP,CBF,GYP,PQT,TBC,DM).
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EcoReference No.: 89206
Chemical of Concern: AND,HCCH,Captan,CHD,CTN,DDT,DBN,DCF,DLD,ES,EN,Folpet,HPT,MXC,PCP,ACF,ACFM,DFPM,FZFB,OXF,ACP,ANL,CPY,CPYM,DZ,DDVP,DMT,DS,ETN,FMP,FNT,FNTH,GYP,IFP,MLN,MTM,MDT,MP,PRN,PRT,PHSL,PSM,PIRM,PFF,TBO,TVP,TCM,TCF,CYF,CYH,CYP,DM,EFX,FNV,FYT,FVL,PMR,PYN,TFT,TLM,BDC,BMY,CBL,CBD,CBF,CPM,MCB,MOM,MLT,OML,PHMD,PIM,TBC,THM,ACR,ASM,FTL,MLX,MTL,PZM,ANZ,ATZ,MBZ,PRO,PMT,SZ,BSF,DFZ,DU,LNR,PPN,AMZ,BPH,BTN,DZM,EXQ,FRM,ILL,IMC,IPD,MCPA,24DXY,PAQT,PDM,PCZ,SXD,TBAH,TPM,TDF,TFZ,TFN,TFR,TVMP,VCZ,FTL,FNZ; Habitat: T; Effect Codes: BCM,CEL; Rejection Code: OK(ILL,PYN,DFPM),NO IN VITRO(ALL OTHER CHEMS).
- Tikhonova, L. S. (1983). The Influence of the Carbamate Agent "Saturn" on Various Functional Systems of Sturgeon From the Don River. *Sport Fish.Abstr.* 28(4):119; In: *Physiological Basis of Reproduction of Marine and Anadromous Fish.Vniro, Moscow, U.S.S.R.:90-93 (1983) (RUS) (ENG ABS)*.

- EcoReference No.: 10283
Chemical of Concern: TBC; Habitat: A; Effect Codes: PHY; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
- Tiwari, D. N. and Pandey, A. K. (1981). Bio-Detoxification of Different Groups of Herbicides by Blue-Green Alga *Nostoc calcicola*. *Indian J.Microbiol.* 21: 163-164.
EcoReference No.: 65983
Chemical of Concern: TBC,BTC,NaDPA; Habitat: A; Effect Codes: GRO,POP; Rejection Code: NO ENDPOINT(NaDPA,TBC).
- Tsuda, T., Aoki, S., Kojima, M., and Harada, H. (1989). Bioconcentration and Excretion of Benthocarb and Simetryne by Carp. *Water Res.* 23: 529, 531 (doi: 10.1016/0043-1354(89)90147-4).
EcoReference No.: 108640
Chemical of Concern: TBC; Habitat: A; Effect Codes: BCM,ACC; Rejection Code: NO ENDPOINT,NO CONTROL(TBC).
- Uno, S., Shiraishi, H., Hatakeyama, S., and Otsuki, A. (1997). Uptake and Depuration Kinetics and BCFs of Several Pesticides in Three Species of Shellfish (*Corbicula leana*, *Corbicula japonica*, and *Cipangopludina*). *Aquat.Toxicol.* 39: 23-43.
EcoReference No.: 18399
Chemical of Concern: TBC,DZ; Habitat: A; Effect Codes: ACC; Rejection Code: NO CONTROL(TBC),NO COC(DZ).
- Uno, S., Shiraishi, H., Hatakeyama, S., Otsuki, A., and Koyama, J. (2001). Accumulative Characteristics of Pesticide Residues in Organs of Bivalves (*Anodonta woodiana* and *Corbicula leana*) Under Natural Conditions. *Arch.Environ.Contam.Toxicol.* 40: 35-47.
EcoReference No.: 65855
Chemical of Concern: MLT,DZ,MLN,TBC,BTC,ODZ; Habitat: A; Effect Codes: ACC; Rejection Code: NO ENDPOINT,CONTROL(ALL CHEMS).
- Wang, G. X., Watanabe, H., Uchino, A., and Itoh, K. (2000). Response of a Sulfonylurea (SU)-Resistant Biotype of *Limnophila sessiliflora* to Selected SU and Alternative Herbicides. *Pestic.Biochem.Physiol.* 68: 59-66.
EcoReference No.: 75769
Chemical of Concern: TBC,BSFM,MCPA,MCPB,IMS; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(IMS),NO MIXTURE(TBC,MCPA,MCPB),OK(BSFM).
- Watanabe, S., Watanabe, S., and Ito, K. (1984). Investigation on the Contamination of Freshwater Fish with Herbicides (II). *Bull.Kanagawa Public Health Lab.* 14: 27-32.
EcoReference No.: 11631
Chemical of Concern: MLT,TBC,ODZ; Habitat: A; Effect Codes: ACC; Rejection Code: NO CONTROL(TBC).
- Way, M. O. and Wallace, R. G. (1999). Control of Rice Water Weevil with Karate Z Tank-Mixed with Selected Herbicides, 1998. *Arthropod Manag.Tests* 24: 275-276 (F94).
EcoReference No.: 101177
Chemical of Concern: LCYT,PPN,QNC,TBC; Habitat: T; Effect Codes: GRO,PHY,POP; Rejection Code: NO CONTROL(ALL CHEMS).
- Way, M. O. and Wallace, R. G. (1992). Evaluation of Control of the RWW with the Nematode *Steinernema carpocapsae*, 1989. *Insectic.Acaric.Tests* 17: 256-257 (99F).
EcoReference No.: 79789
Chemical of Concern: CBF; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CBF),NO COC(TBC,PPN,BT).
- Way, M. O., Wallace, R. G., and Smith, K. (1992). Evaluation of Two Species of Nematodes for Rice Water Weevil Control, 1989. *Insectic.Acaric.Tests* 17: 257-258 (100F).
EcoReference No.: 79788
Chemical of Concern: CBF; Habitat: T; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CBF),NO COC(PPN,TBC,BT).
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EcoReference No.: 79787
Chemical of Concern: CBF; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(CBF),NO COC(BT,TBC,PPN,MLT).
- Wolfe, M. F., Villalobos, S. A., Seiber, J. N., and Hinton, D. E. (1995). A Comparison of Carbamate Toxicity to

- Medaka (*Oryzias latipes*) Embryos and Larvae. *Mar. Environ. Res.* 39: 380 (ABS).
 EcoReference No.: 16929
 Chemical of Concern: CBF,MLT,TBC; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(CBF,TBC).
- Yuyama, T., Sweetser, P. B., Ackerson, R. C., and Takeda, S. (1986). Safening of DPX-F5384 on Rice by Combination with Thiocarbamate Herbicides. *Weed Res. Jpn.* 31: 164-170.
 EcoReference No.: 72065
 Chemical of Concern: BSFM,MLT,TBC; Habitat: T; Effect Codes: GRO,POP; Rejection Code: NO ENDPOINT(TBC).
- Zargar, M. Y. and Dar, G. H. (1990). Effect of Benthocarb and Butachlor on Growth and Nitrogen Fixation by Cyanobacteria. *Bull. Environ. Contam. Toxicol.* 45: 232-234.
 EcoReference No.: 18790
 Chemical of Concern: BTC,TBC; Habitat: A; Effect Codes: POP,BCM,PHY; Rejection Code: NO ENDPOINT(TBC).
- Zendzian, R. P. (2000). Dermal Absorption of Pesticides in the Rat. *Am. Ind. Hyg. Assoc. J.* 61: 473-483.
 EcoReference No.: 97878
 Chemical of Concern: GFSNH,CN,MVP,EPTC,HCB,PSM,BMY,TBC,HCCH,IPD,AZ,DS ; Habitat: T; Effect Codes: ACC; Rejection Code: NO ENDPOINT,NO CONTROL(ALL CHEMS).
- Zhang, W., Webster, E. P., and Braverman, M. P. (2002). Rice (*Oryza sativa*) Response to Rotational Crop and Rice Herbicide Combinations. *Weed Technol.* 16: 340-345.
 EcoReference No.: 101566
 Chemical of Concern: IZT,FMU,MTL,NFZ,MLT,QNC,TBC; Habitat: T; Effect Codes: POP,PHY,GRO; Rejection Code: TARGET(NFZ,MTL),NO MIXTURE(MLT,QNC,TBC).

III. Papers Excluded From ECOTOX

- 1986). 4564508 Process for the recovery of sodium carbonate from salt mixtures : Michael J Fairweather, Michael Rockandel, Abraham Sadan, Godefridus M Swinkels, Rossland, Canada assigned to Cominco Ltd. 6: VI-VII.
Chem Codes: Chemical of Concern: TBC Rejection Code: CHEM METHODS.
- Degradation of Several Herbicides in Soils Under Different Conditions. In: Au - Kuwatsuka S. *Environmental toxicology of pesticides. Academic press, new york,1972, p. 385-400(ref:26).*
Chem Codes: Chemical of Concern: TBC Rejection Code: FATE.
- 1996). Environmental Contaminants in Breast Milk From the Central Asia Republics. Au - Lederman Sa. *Reproductive toxicology* 10: 93-104.
Chem Codes: Chemical of Concern: TBC Rejection Code: HUMAN HEALTH.
- Environmental Impact Statement for the Cassini Mission, Supplement 1. *Govt reports announcements & index (gra&i), issue 23, 2009.*
Chem Codes: Chemical of Concern: TBC Rejection Code: NO TOX DATA.
- F/Nas/Pressure Temperature Retrieval Techniques. *Govt reports announcements & index (gra&i), issue 23, 2008.*
Chem Codes: Chemical of Concern: TBC Rejection Code: CHEM METHODS.
- Hot and Cold Therapy Eases Pain. *Govt reports announcements & index (gra&i), issue 18, 2005.*
Chem Codes: Chemical of Concern: TBC Rejection Code: NO TOX DATA.
- 1987). Process for the recovery of sodium carbonate from salt mixtures: Michael J Fairweather, Michael Rockandel, Abraham Sadan, Godefridus M Swinkels, Rossland, Canada assigned to Cominco Ltd. 13: VIII.
Chem Codes: Chemical of Concern: TBC Rejection Code: CHEM METHODS.
- Red Facts: Thiobencarb. *Govt reports announcements & index (gra&i), issue 19, 2008.*
Chem Codes: Chemical of Concern: TBC Rejection Code: NO TOX DATA.
- Reregistration Eligibility Decision (Red): Thiobencarb. (Includes Red Facts: Thiobencarb) Fact Sheet. *Govt reports announcements & index (gra&i), issue 19, 2008.*
Chem Codes: Chemical of Concern: TBC Rejection Code: NO TOX DATA.
- Airoidi, G. F., Balsari, P., Bocchi, S., Ferrero, A., and Tano, F. (1992). Effects of Seed Bed Preparation and Chemical Weed Control in Non-Flooded Rice Field. *Meded. Fac. Landbouww. Univ. Gent* 57: 1099-1106.
Chem Codes: Chemical of Concern: PAQT,DQTB,PPN,PDM,TBC Rejection Code: MIXTURE.
- Akiyama, Y., Yano, M., Mitsuhashi, T., Takeda, N., and Tsuji, M. (1996). Simultaneous Determination of Pesticides in Agricultural Products by Solid-Phase Extraction and Gas Chromatography-Mass

- Spectrometry. *Journal of the food hygienic society of japan* 37: 351-362.
Chem Codes: Chemical of Concern: TBC Rejection Code: NON-ENGLISH.
- Aktar, M. W., Gupta, A., Gade, V., and Bhattacharyya, A. (Fate and Behavior of Benthocarb--a Herbicide in Transplanted Paddy Under East-Indian Climatic Condition. *Bull environ contam toxicol.* 2007, dec; 79(6):646-9. [*Bulletin of environmental contamination and toxicology*]: *Bull Environ Contam Toxicol.*
Chem Codes: Chemical of Concern: TBC Rejection Code: FATE.
- Amirov, R. M., Ignatov, V. V., Ostrovskii, D. N., and Golovleva, L. A. (1987). Effect of Pesticides on Bacterial Membranes. *Prikl biokhim mikrobiol* 23: 393-398.
Chem Codes: Chemical of Concern: TBC Rejection Code: NON-ENGLISH.
- Amoros, I., Connon, R., Garelick, H., Alonso, J. L., and Carrasco, J. M. (2000). An Assessment of the Toxicity of Some Pesticides and Their Metabolites Affecting a Natural Aquatic Environment Using the Microtox Super(Tm) System. *Water Science & Technology [Water Sci. Technol.]*. Vol. 42, no. 1-2, pp. 19-24. 2000.
Chem Codes: Chemical of Concern: TBC Rejection Code: BACTERIA.
- Anderson, T. A., Guthrie, E. A., and Walton, B. T. (1993). Bioremediation in the Rhizosphere. *Environmental science & technology* 27: 2630-2636.
Chem Codes: Chemical of Concern: TBC Rejection Code: EFFLUENT.
- Anderson, T. A., White, D. C., and Walton, B. T. (1995). Degradation of Hazardous Organic Compounds by Rhizosphere Microbial Communities. Singh, v. P. (Ed.). *Progress in industrial microbiology*, vol. 32. *Biotransformations: microbial degradation of health-risk compounds*. Xvi+282p. Elsevier science publishers b.v.: Amsterdam, netherlands New york, new york, usa. Isbn 0-444-81977-0.; 0: 205-225.
Chem Codes: Chemical of Concern: TBC Rejection Code: FATE.
- Anon (Report of the Working Group of the Planning Commission on Pesticides Industry for the Seventh Five Year Plan. *Pesticides (bombay)*; 19 (9). 1985 (recd. 1986). 11-20.
Chem Codes: Chemical of Concern: TBC Rejection Code: NO TOX DATA.
- Anonymous (Official Methods of Inspecting Agricultural Chemicals. Part 30. Pmp 50% Wp, Captan Wp, Folpet 50% Wp, and Benthocarb Herbicide Ec. *Noyaku kagaku (j. Pestic. Sci.)* 3(3): 153-156; 1976.
Chem Codes: Chemical of Concern: TBC Rejection Code: NON-ENGLISH.
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Chem Codes: Chemical of Concern: TBC Rejection Code: IN VITRO.
- Archibald, S. O. and Winter, C. K. (1990). Pesticides in Our Food Assessing the Risks. Winter, c. K., J. N. Seiber and c. F. Nuckton (ed.). *Chemicals in the human food chain*. Xv+276p. Van nostrand reinhold: florence, kentucky, usa London, england, uk. Illus. Maps. Isbn 0-442-00421-4.; 0: 1-50.
Chem Codes: Chemical of Concern: TBC Rejection Code: FOOD.
- Armbrust, K. L. (2000). Pesticide Hydroxyl Radical Rate Constants: Measurements and Estimates of Their Importance in Aquatic Environments. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]*. Vol. 19, no. 9, pp. 2175-2180. Aug 2000.
Chem Codes: Chemical of Concern: TBC Rejection Code: FATE.
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Chem Codes: Chemical of Concern: TBC Rejection Code: BACTERIA.
- Ashton, F. M. and Monaco, T. J. (1991). Weed Science Principles and Practices Third Edition. Ashton, f. M. And t. J. Monaco. *Weed science: principles and practices, third edition*. Ix+466p. John wiley and sons, inc.: New york, new york, usa Chichester, england, uk. Illus. Isbn 0-471-60084-9.; 0: Ix+466p.
Chem Codes: Chemical of Concern: TBC Rejection Code: REVIEW.
- Au, A. M. and Fung, W. D. (1988). Rapid Technique for Thiobencarb Residue Determination in Rice Samples. *Bull environ contam toxicol* 40: 655-659.
Chem Codes: Chemical of Concern: TBC Rejection Code: METHODS.
- Babu, G. Rv, Reddy, G. R., and Chetty, C. S. (1988). Inhibition of Calcium Atpase by Benthocarb in Rat an in-Vitro Study. *Curr sci (bangalore)* 57: 708-709.
Chem Codes: Chemical of Concern: TBC Rejection Code: IN VITRO.
- Baldwin, F. L., Talbert, R. E., Carey, V. F Iii, Kitt, M. J., Helms, R. S., Black, H. L., and Smith, R. J Jr (1996). A

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