

Appendix G. List of citations accepted and rejected by ECOTOX criteria

The citations in this appendix were considered for inclusion in ECOTOX. Citations include the ECOTOX Reference number, as well as rejection codes (if relevant). References in section G.1 include bromacil-related articles accepted by ECOTOX and OPP and were cited within this risk assessment. References in section G.2 were for articles relevant to bromacil, were accepted by ECOTOX and OPP but were not cited within the risk assessment. References in section G.3 were relevant to bromacil related articles which were accepted by ECOTOX, but not by OPP. In order to be included in the ECOTOX database, papers must meet the following minimum criteria:

- the toxic effects are related to single chemical exposure;
- the toxic effects are on an aquatic or terrestrial plant or animal species;
- there is a biological effect on live, whole organisms;
- a concurrent environmental chemical concentration/dose or application rate is reported; and
- there is an explicit duration of exposure.

Section G.4 includes the list of exclusion terms and descriptions for citations not accepted by ECOTOX. For bromacil, there were hundreds of references that were not accepted by ECOTOX for one or more of the reasons included in section G.4. A full list of the citations reviewed and rejected by the criteria for ECOTOX is listed in section G.5.

G.1. ECOTOX and OPP accepted references, relevant to bromacil, cited within the risk assessment

Foster, S., Thomas, M., and Korth, W. (1998). Laboratory-Derived Acute Toxicity of Selected Pesticides to *Ceriodaphnia dubia*. *Aust.J.Ecotoxicol.* 4: 53-59. EcoReference No.: 67777

Geiger, D. L., Call, D. J., and Brooke, L. T. (1988). Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*). *Ctr.for Lake Superior Environ.Stud., Volume 4, Univ.of Wisconsin-Superior, Superior, WI* 355. EcoReference No.: 12859

Sherman, H. and Kaplan, A. M. (1975). Toxicity Studies with 5-Bromo-3-sec-Butyl-6-Methyluracil. *Toxicol.Appl.Pharmacol.* 34: 189-196. EcoReference No.: 54130

G.2. ECOTOX accepted references, acceptable for OPP, relevant to bromacil, not utilized or cited within this risk assessment

The citations below involve articles that are relevant to bromacil and were designated acceptable for ECOTOX and OPP; however these citations were not used or cited with this risk assessment. These articles were not utilized because they contain data that represent less sensitive endpoints than those used for deriving RQs.

Ashton, F. M., Cutter, E. G., and Huffstutter, D. (1969). Growth and Structural Modifications of Oats Induced by Bromacil. *Weed Res.* 9: 198-204.

EcoReference No.: 28399

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

Au, W. W., Lakoski, J. M., and Legator, M. S. (1993). Evaluation of Toxic and Genotoxic Effects of Bromacil: Part I - Cytogenetic Study Using Bone Marrow Cells of B6C3/F1 Mice. *J.Occup.Med.Toxicol.* 2: 169-171.

EcoReference No.: 90509

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

Bakalivanov, D. and Kostov, O. (1981). Soil Microbiological Assessment of Toxicity of Alkanoate, Amide and Other Herbicides. *Acta Microbiol.Acad.Sci.Hung.* 28: 141-146.

EcoReference No.: 90511

Chemical of Concern: 24DXY,MCPA,BMC,TFN,PCH; Habitat: T; Effect Codes: POP,MOR; Rejection Code: LITE EVAL CODED(BMC),OK(24DXY).

Bhutani, V. P., Bhan, S., and Chopra, S. K. (1984). The Influence of Herbicides on the Soil Microflora in a Plum Orchard. *Sci.Hortic.* 23: 191-194 .

EcoReference No.: 70502

Chemical of Concern: SZ,ATZ,BMC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(SZ,ATZ,BMC).

Bishop, J. B., Morris, R. W., Seely, J. C., Hughes, L. A., Cain, K. T., and Generoso, W. M. (1997). Alterations in the Reproductive Patterns of Female Mice Exposed to Xenobiotics. *Fundam.Appl.Toxicol.* 40: 191-204.

EcoReference No.: 91077

Chemical of Concern: BMC,ETO,BNZ,PL; Habitat: T; Effect Codes: REP,MOR,CEL; Rejection Code: LITE EVAL CODED(BMC),OK(ETO).

Bovey, R. W., Baur, J. R., and Morton, H. L. (1970). Control of Huisache and Associated Woody Species in South Texas. *J.Range Manag.* 23: 47-50.

EcoReference No.: 43356

Chemical of Concern: 24DXY,BMC,DMB,PAQT,PCL; Habitat: T; Effect Codes: POP; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS).

Bovey, R. W. and Meyer, R. E. (1978). Control of Huisache with Soil Applied Herbicides. *J.Range Manag.* 31: 179-182.

EcoReference No.: 41522

Chemical of Concern: DMB,BMC,TET,DU,PRO,PCL; Habitat: T; Effect Codes: MOR,POP; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS).

Cole, A. W. and Coats, G. E. (1973). Tall Morning Glory Germination Response to Herbicides and Temperature. *Weed Sci.* 21: 443-446.

EcoReference No.: 41496

User Define 2: REPS,WASH,CALF,CORE,SENT

Chemical of Concern: ATZ,BMC,DU,SZ,DMM,MBZ,TRB,TFN,EPTC; Habitat: T; Effect Codes: REP,GRO; Rejection Code: OK TARGET(SZ).

Finke, R. L., Warner, R. L., and Muzik, T. J. (1977). Effect of Herbicides on in Vivo Nitrate and Nitrite Reduction. *Weed Sci.* 25: 18-22.

EcoReference No.: 42823

Chemical of Concern:

24DXY,ATZ,BMC,DU,SZ,BMN,DMB,TRB,TFN,CNR,CZE,MTZ,AMTL,CPP,IPN,MCPA,
HgCl₂,PCL; Habitat : T; Effect Codes: BCM; Rejection Code: OK TARGET(SZ,DMB).

Forster, B., Heifetz, P. B., Lardans, A., Boynton, J. E., and Gillham, N. W. (1997). Herbicide Resistance and Growth of D1 Ala251 Mutants in Chlamydomonas. *Z.Naturforsch.Sect.C* 52: 654-664.

EcoReference No.: 71603

Chemical of Concern: ATZ,BMC,MBZ; Habitat: A; Effect Codes: POP; Rejection Code:
LITE EVAL CODED(ATZ),OK TARGET(BMC).

Fuerst, E. P., Arntzen, C. J., Pfister, K., and Penner, D. (1986). Herbicide Cross-Resistance in Triazine-Resistant Biotypes of Four Species. *Weed Sci.* 34: 344-353.

EcoReference No.: 72067

Chemical of Concern: ATZ,BMC,MBZ,LNR,PMB,BMN,BT,PMT,DU,TET,DMM; Habitat:
T; Effect Codes: PHY; Rejection Code: TARGET(ATZ,BMC).

Garten, C. T. J. (1990). Multispecies Methods of Testing for Toxicity: Use of the Rhizobium-Legume Symbiosis in Nitrogen Fixation and Correlations Between Responses by Algae and Terrestrial Plants. In: *W.Wang, J.W.Gorsuch, and W.R.Lower (Eds.), Plants for Toxicity Assessment, ASTM STP 1091, Philadelphia, PA* 69-84.

EcoReference No.: 19243

Chemical of Concern: Cu,CuS,SZ,24DXY,ACR,BMC,BMN,DMB,LNR; Habitat: AT;
Effect Codes: GRO, PHY, BCM,POP; Rejection Code: LITE EVAL
CODED(SZ,CuS),OK(ALL CHEMS).

Chemical of Concern: CuS,SZ,24DXY,ACR,BMC,BMN,LNR; Habitat: AT; Effect Codes:
GRO, PHY, BCM,POP; Rejection Code: LITE EVAL CODED(BMC,SZ,CuS),OK(ALL
CHEMS)//NO MEDIA:OM,pH(EcoSSL)//.

Gautam, D. R., Sharma, N. K., and Chauhan, J. S. (1984). Herbicides and Nematode Control in Peach Nurseries. *Pesticides* 18: 11-12.

EcoReference No.: 90516

Chemical of Concern: ATZ,TRB,SZ,BMC,DU; Habitat: T; Effect Codes: POP; Rejection
Code: LITE EVAL CODED(ATZ,SZ,BMC),OK(TRB).

Gile, J. D., Collins, J. C., and Gillett, J. W. (1980). Fate of Selected Herbicides in a Terrestrial Laboratory Microcosm. *Environ.Sci.Technol.* 14: 1124-1128.

EcoReference No.: 49542

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

Hiranpradit, H., Foy, C. L., and Shear, G. M. (1972). Effects of Low Levels of Bromacil on Some Mineral Constituents and Forms of Nitrogen in Glycine max (L.) Merrill. *Agron.J.* 64: 274-276.

EcoReference No.: 87308

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

Hollingsworth, E. B., Quimby, P. C. Jr., and Jaramillo, D. C. (1979). Control of Saltcedar by Subsurface

Placement of Herbicides. *J.Range Manag.* 32: 288-291.

EcoReference No.: 41536

Chemical of Concern: TRB,BMC,PCL,DU,DMB,24DXY; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS).

Horowitz, M., Blumenfeld, T., Herzlinger, G., and Hulin, N. (1974). Effects of Repeated Applications of Ten Soil-Active Herbicides on Weed Population, Residue Accumulation and Nitrification. *Weed Res.* 14: 97-109.

EcoReference No.: 40823

Chemical of Concern: BMC,DU,SZ,PMT,TFN,CTHM,FMU,PYZ; Habitat: T; Effect Codes: GRO,POP; Rejection Code: OK TARGET(SZ,PYZ).

Killilea, D. M. (1983). Chemical Control of Coppicing Shoots of *Brachystegia Boehmii*, *Brachystegia Spiciformis* and *Julbernardia Globiflora*: Soil Application of Bromacil and Tebuthiuron. *Zimb J Ag R* 20: 165-168.

EcoReference No.: 25247

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

Killilea, D. M. (1983). Chemical Control of *Lantana Camara* L. 3. the Use of Bromacil and Tebuthiuron. *Zimb J Ag R* 21: 69-72.

EcoReference No.: 32213

Chemical of Concern: BMC,TET; Habitat: T; Rejection Code: TARGET(BMC).

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

EcoReference No.: 90523

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

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

EcoReference No.: 40616

Chemical of Concern:

EDT,SZ,24DC,ATZ,24DXY,ACR,BMC,BMN,BS,DBN,DMB,LNR,PQT,TRB,TFN,PYZ,NaN₃,PRO; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(PRO-aquatic,ATZ-aquatic,SZ-aquatic,PYZ,NaN₃-aquatic),NO ENDPOINT(SZ-terrestrial,DMB),OK TARGET(ATZ-terrestrial,PRO-terrestrial).

Chemical of Concern:

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

Lakoski, J. M., Arentsen, M. I., Kneisley, N. L., Au, W. W., and Legator, M. S. (1993). Evaluation of Toxic and Genotoxic Effects of Bromacil: Part II. Open-Field Behavioral Assessment of Locomotor Effects in the Rat. *J.Occup.Med.Toxicol.* 2: 173-187.

EcoReference No.: 90508

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

Martin, N. A. (1982). The Effects of Herbicides Used on Asparagus on the Growth Rate of the Earthworm *Allolobophora caliginosa*. *Proc.35th N.Z.Weed and Pest Control Conf.* 328-331.

EcoReference No.: 58170

Chemical of Concern:

SZ,TFN,ODZ,24DXY,PMT,MCPB,MBZ,TRB,LNR,BMC,DU,ASM,AMTL,HXZ,GYP,PPZ;

Habitat: T; Effect Codes: GRO,MOR; Rejection Code: LITE EVAL CODED(SZ,PPZ),OK

TARGET(MCPB,SZ),OK(ALL CHEMS),TARGET(BMC).

McFarlane, J. C., Pflieger, T., and Fletcher, J. (1987). Transpiration Effect on the Uptake and Distribution of Bromacil, Nitrobenzene, and Phenol in Soybean Plants. *J.Environ.Qual.* 16: 372-376.

EcoReference No.: 52066

Chemical of Concern: BMC,PL,NBZ; Habitat: T; Effect Codes: ACC; Rejection Code:

TARGET(BMC).

McNease, L. L. and Glasgow, L. L (1971). Experimental Treatments for the Control of Wiregrass and Saltmarsh Grass in a Brackish Marsh. *In: J.W.Webb (Eds.), Proc.24th Conf.Southwestern Assoc.Game and Fish Commis.,Sep.27-30, 1970, Atlanta, GA* 127-145.

EcoReference No.: 86615

Chemical of Concern: Du,BMC; Habitat: AT; Effect Codes: GRO,MOR,POP; Rejection

Code: TARGET(BMC).

Meyer, R. E. and Baur, J. R. (1979). Smutgrass (*Sporobolus Poiretii*) Control in Pastures with Herbicides. *Weed Sci.* 27: 361-366.

EcoReference No.: 41467

Chemical of Concern: ATZ,BMC,GYP,HXZ,TET; Habitat: T; Effect Codes: PHY,POP;

Rejection Code: LITE EVAL CODED(BMC),OK(ALL CHEMS),OK

TARGET(ATZ,CFRM).

Meyer, R. E., Morton, H. L., Merkle, M. G., Bovey, R. W., and Davis, F. S. (1970). Brush Control on Forest-Rangelands in East Texas. *J.Range Manag.* 23: 129-132.

EcoReference No.: 42799

Chemical of Concern: 24DXY,BMC,DMB,PCL,PAQT; Habitat: T; Effect Codes:

MOR,PHY; Rejection Code: OK(ALL CHEMS),OK TARGET(DMB).

Murty, K. V., Raju, D. S. S., and Sharma, C. B. S. R. (1983). Cytogenetic Hazards from Agricultural Chemicals. 7. Herbicides, Fungicides and Insecticides Screened for Effects on Chiasmata in *Hordeum vulgare*. *Biol.Zentralbl.* 102: 571-576.

EcoReference No.: 41005

User Define 2: REPS,WASH,CALF,CORE,NA

Chemical of Concern:

TBA,CBX,OXC,Zineb,Zn,ATZ,SZ,PMT,BMC,TRB,PPHD,FNT,MP,DDVP,TCF,PNB;

Habitat: T; Effect Codes: CEL; Rejection Code: OK TARGET(SZ).

Neidlinger, T. J., Furtick, W. R., and Goetze, N. R. (1968). Susceptibility of Annual Bluegrass and Turfgrasses to Bensulide and Three Uracil Herbicides. *Weed Sci.* 16: 16-18.

EcoReference No.: 81009

Chemical of Concern: BS,BMC,TRB; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(BS,BMC).

Nishimoto, M. and Rahman, A. (1985). Effect of Incorporated Depth and Soil Organic Matter Content on Herbicidal Activity. *N.Z.J.Agric.Res.* 28: 531-536 .

EcoReference No.: 80103

Chemical of Concern: ACR,BMC,MBZ; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: TARGET(BMC).

Palmer, J. S. and Radeleff, R. D. (1969). The Toxicity of Some Organic Herbicides to Cattle, Sheep, and Chickens . *Production Research Rep.No.106, U.S.Dep Agriculture, Agricultural Research Service, Washington, DC.*

EcoReference No.: 80737

Chemical of Concern:

24DXY,24DXYEE,PPA,MCPA,LNR,DU,TRL,ATZ,SZ,PRO,PPZ,DMB,BMC,DBN,PCLK;
Habitat: T; Effect Codes: GRO,PHY,MOR; Rejection Code: LITE EVAL CODED(PRO),NO ENDPOINT,CONTROL(ATZ,SZ),OK(24DXY,24DXYEE,PPA,MCPA,LNR,DU,TRL,PPZ,DMB,BMC,DBN,PCLK).

Pancholy, S. K. and Lynd, J. Q. (1969). Bromacil Interactions in Plant Bioassay, Fungi Cultures, and Nitrification. *Weed Sci.* 17: 460-463.

EcoReference No.: 90507

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

Patil, A. V. (1971). Control of Kans (*Sachharum Spontaneum* Linn) with Bromacil Herbicide in Young Mandarin Orange. *Pesticides* 5: 20-21.

EcoReference No.: 26393

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

Samsøe-Petersen, L. (1995). Effects of 67 Herbicides and Plant Growth Regulators on the Rove Beetle *Aleochara bilineata* (Col.: Staphylinidae) in the Laboratory. *Entomophaga* 40: 95-104.

EcoReference No.: 63490

Chemical of Concern:

MTL,DU,MCP1,FXP,BT,PDM,MTSM,AMTL,DPP1,ATZ,SZ,CQTC,HFP,PYD,BMC,CBL ; Habitat: T; Effect Codes: MOR,REP,GRO; Rejection Code: LITE EVAL CODED(MTL,SZ,ATZ,CQTC,BMC),NO MIXTURE(MCP1,DPP1),TARGET(CBL).

Samsøe-Petersen, L. (1987). Laboratory Method for Testing Side-Effects of Pesticides on the Rove Beetle *Aleochara bilineata* - Adults. *Entomophaga* 32: 73-81.

EcoReference No.: 70278

User Define 2: REPS,WASHT,CALFT,CORE,SENT

Chemical of Concern: SZ,CBL,ACP,AMZ,DM,FNT,THM,MZB,BMC,CQTC; Habitat: T; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(SZ).

Chemical of Concern: SZ,CBL,ACP,AMZ,AZ,DM,FNT,THM,MZB,BMC,CQTC; Habitat: T; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(SZ,CQTC),OK(ALL CHEMS).

Chemical of Concern: ACP,AMZ,AZ,DM,FNT,THM,MZB,BMC,CQTC,CBL,SZ; Habitat: T; Effect Codes: MOR,REP; Rejection Code: LITE EVAL CODED(SZ,CQTC,BMC,MZB),OK(AMZ,DM,FNT,THM),TARGET(ACP,AZ,CBL).

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

EcoReference No.: 4008
Chemical of Concern: ATZ,HCCH,MP,BMC,DU,CuS,PCP; Habitat: A; Effect Codes: POP,PHY; Rejection Code: LITE EVAL CODED(CuS,PCP).

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

Seery, C. R., Gunthorpe, L., and Ralph, P. J. (2006). Herbicide Impact on *Hormosira banksii* Gametes Measured by Fluorescence and Germination Bioassays. *Environ.Pollut.* 140: 43-51.

EcoReference No.: 90414
Chemical of Concern: IRG,BMC,DU; Habitat: A; Effect Codes: GRO,BCM,PHY; Rejection Code: LITE EVAL CODED(BMC)OK(IRG,DU)NO COC(EED).

Simmon, V. F., Mitchell, A. D., and Jorgenson, T. A. (1977). Evaluation of Selected Pesticides as Chemical Mutagens In Vitro and In Vivo Studies. *EPA-600/1-77-028, U.S.EPA, Res.Triangle Park, NC* 238 p. (U.S.NTIS PB-268647).

EcoReference No.: 71394
Chemical of Concern: SZ,PRT,PRN,Folpet,BMC,CCA,Captan,CPY,DSMA,FNTH,AZ,MLN,MOM,MP,PCN,TFN; Habitat: T; Effect Codes: REP,MOR; Rejection Code: LITE EVAL CODED(MLN,Captan,Folpet,MP,BMC),OK(ALL CHEMS),NO ENDPOINT(SZ).

Stott, K. G. (1964). The Effects of Applying Amitrole-T, Simazine, Bromacil and MCPA for the Control of Perennial Nettle (*Urtica dioica*) in Mature Willow Beds. *L Ash Hrs R* 1964: 211-217.

EcoReference No.: 42348
User Define 2: REPS,WASH,CALF,CORE,SENT
Chemical of Concern: SZ,BMC,PAH,MCPA; Habitat: T; Effect Codes: POP,GRO; Rejection Code: OK TARGET(SZ).

Stott, K. G. (1964). Further Experiments on the Effects of Time of Application on Some Herbicides on the Control of Field Thistle (*Cirsium arvense* (L.) Scop.) in Mature Willow Beds. *L Ash Hrs R* 1964: 218-229.

EcoReference No.: 42347
User Define 2: REPS,WASH,CALF,CORE,SENT
Chemical of Concern: BMC,DU,SZ,AMT,MCPA; Habitat: T; Effect Codes: POP,GRO; Rejection Code: OK TARGET(SZ).

Ueckert, D. N. and Whisenant, S. G. (1982). Individual Plant Treatments for Controlling Redberry Juniper Seedlings. *J.Range Manag.* 35: 419-423.

EcoReference No.: 41265
Chemical of Concern: BMC,GYP,HXZ,TPR,PCL,TET,DMB; Habitat: T; Effect Codes:

MOR; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS).

Vallentine, J. F. and Schwendiman, D. (1973). Spot Treatment for Gambel Oak Control. *J.Range Manag.* 26: 382-383.

EcoReference No.: 76928

Chemical of Concern: PCL,BMC; Habitat: T; Effect Codes: POP; Rejection Code: TARGET(BMC).

Wang, W. (1994). Rice Seed Toxicity Tests for Organic and Inorganic Substances. *Environ.Monit.Assess.* 29: 101-107.

EcoReference No.: 45060

Chemical of Concern: Ag,Cd,Cr,Cu,Mn,F,Ni,Pb,Zn,24DXY,BMC,GYP,CuCl,PAQT;
Habitat: AT; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(CuCl),OK(ALL CHEMS).

Wilkins, R. M. and Metcalfe, R. J. (1993). Toxicity of Soil Applied Herbicides to Brine Shrimp Larvae (*Artemia salina*) and Synergism with Other Pesticides. *Brighton Crop Prot.Conf.- Weeds 1*: 163-74.

EcoReference No.: 70574

User Define 2: REPS,WASH,CALF,CORE,SENT

Chemical of Concern: SZ,ATZ,CBF,MLN,BMC; Habitat: A; Effect Codes: MOR;
Rejection Code: LITE EVAL CODED(MLN,SZ),OK(ALL CHEMS).

Chemical of Concern: CBF,ATZ,MLN,SZ,BMC; Habitat: A; Effect Codes: MOR;
Rejection Code: LITE EVAL CODED(BMC,ATZ,MLN,SZ),OK(CBF).

Wilkins, R. M., Saleem, M. A., and Rajendran, C. (1995). Synergism of Insecticidal Action and Effects on Detoxifying Enzymes In Vivo of Lambda-Cyhalothrin and Malathion by Some Nitrogen Heterocycles in Resistant and Susceptible Strains of *Tribolium castaneum*. *Pestic.Sci.* 43: 321-331.

EcoReference No.: 89666

Chemical of Concern: LCYT,MLN,BMC,PPB; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MLN,BMC),OK(LCYT).

Woodruff, R. C., Phillips, J. P., and Irwin, D. (1983). Pesticide-Induced Complete and Partial Chromosome Loss in Screens with Repair-Defective Females of *Drosophila melanogaster*. *Environ.Mutagen.* 5: 835-846.

EcoReference No.: 90436

Chemical of Concern:

PMR,DZ,DDT,DMT,Captan,Maneb,BMC,PAQT,PCL,24DXY,CBL,CPY,CBF; Habitat: T;
Effect Codes: MOR,CEL; Rejection Code: LITE EVAL CODED(Captan,Maneb,BMC),OK TARGET(DMT),OK(ALL CHEMS).

G.3. ECOTOX accepted references, NOT acceptable for OPP, relevant to bromacil

The citations below involve articles that are relevant to bromacil and were designated acceptable for ECOTOX but not by OPP. The rejection code for each citation is included below. These articles were not used or cited with this risk assessment.

Allen, M. G. (1974). Further Evaluation of Cyanazine and Cyanazine Mixtures for Selective Weed Control in Newly-Planted Raspberries. *Proc.Br.Weed Control Conf.* 12: 679-682.

EcoReference No.: 40871

Chemical of Concern: BMC; Habitat: T; Effect Codes: PHY,POP; Rejection Code: NO CONTROL,ENDPOINT(BMC).

Ashton, F. M., Devilliers, O. T., Glenn, R. K., and Duke, W. B. (1977). Localization of Metabolic Sites of Action on Herbicides. *Pestic.Biochem.Physiol.* 7: 122-141.

EcoReference No.: 42644

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

Ashton, F. M., Penner, D., and Hoffman, S. (1968). Effect of Several Herbicides on Proteolytic Activity of Squash Seedlings. *Weed Sci.* 16: 169-171.

EcoReference No.: 43990

Chemical of Concern: TFN,EDT,24DXY,ATZ,BMC,BMN,BS,DBN,DMB; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: NO ENDPOINT,CONTROL(ALL CHEMS).

Chemical of Concern: TFN,EDT,24DXY,ATZ,BMC,BMN,BS,DBN,DMB; Habitat: T; Effect Codes: BCM,GRO; Rejection Code: NO ENDPOINT(ALL CHEMS).

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EcoReference No.: 25761

Chemical of Concern: 24DXY,PQT,BMC; Habitat: T; Effect Codes: CEL; Rejection Code: NO ENDPOINT(24DXY,PQT,TARGET-BMC).

Bennet, P. H. and Sandmann, E. R. I. C. (1983). The Effect of Bromacil of the Net Photosynthetic Oxygen Production of *Selenastrum capricornutum*. *Chemosphere* 12: 1047-1054.

EcoReference No.: 90588

Chemical of Concern: BMC; Habitat: A; Effect Codes: POP,PHY; Rejection Code: NO ENDPOINT(TARGET-BMC).

Bennett, P. H. and De Beer, P. R. (1984). A Rapid Quantitative Bioassay for the Determination of Biologically Available Bromacil in Soils. *Pestic.Sci.* 15: 425-430.

EcoReference No.: 90969

Chemical of Concern: BMC; Habitat: A; Rejection Code: NO ENDPOINT(BMC).

Bovey, R. W., Baur, J. R., and Morton, H. L. (1970). Control of Huisache and Associated Woody Species in South Texas. *J.Range Manag.* 23: 47-50.

EcoReference No.: 43356

Chemical of Concern: 24DXY,BMC,DMB,PAQT,PCL; Habitat: T; Effect Codes: POP; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS),NO CONTROL,ENDPOINT(BMC).

Bovey, R. W. and Meyer, R. E. (1978). Control of Huisache with Soil Applied Herbicides. *J.Range Manag.* 31: 179-182.

EcoReference No.: 41522

Chemical of Concern: DMB,BMC,TET,DU,PRO,PCL; Habitat: T; Effect Codes: MOR,POP; Rejection Code: OK TARGET(PRO,DMB),OK(ALL CHEMS),NO CONTROL,ENDPOINT(BMC).

Chemical of Concern: DMB,BMC,TET,DU,PRO,PCL; Habitat: T; Effect Codes: MOR,POP; Rejection Code: OK TARGET(PRO,DMB),OK(ALL CHEMS).

Brucker-Davis, F. (1998). Effects of Environmental Synthetic Chemicals on Thyroid Function. *Thyroid* 8: 827-856.

EcoReference No.: 84025

Chemical of Concern:

TFN,TPZ,TDP,PYN,PYM,PPB,PPM,Al,Cd,Pb,Hg,PHTH,DXN,FRN,HCN,PCB,BMN,CBL, CBF,AND,ACR,DDT,DCF,DLD,ES,EN,HCCH,TXP,DMT,FNT,MLN,MP,CYH,BFT,FNV, DM,PCL,MBZ,Maneb,Nabam,PDM,PCNB,Zineb,ATZ,Nf,PCP,ACO,DCPA,EFX,BMC,CTZ ,FNB,FPN; Habitat: T; Rejection Code: NO REVIEW.

Call, D. J., Brooke, L. T., Kent, R. J., Knuth, M. L., Poirier, S. H., Huot, J. M., and Lima, A. R. (1987). Bromacil and Diuron Herbicides: Toxicity, Uptake, and Elimination in Freshwater Fish. *Arch. Environ. Contam. Toxicol.* 16: 607-613.

EcoReference No.: 12612

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

Cole, A. W. and Coats, G. E. (1973). Tall Morningglory Germination Response to Herbicides and Temperature. *Weed Sci.* 21: 443-446.

EcoReference No.: 41496

Chemical of Concern: ATZ,BMC,DU,SZ,MBZ,TRB,TFN,EPTC,NPM,DCPA; Habitat: T; Effect Codes: REP,GRO; Rejection Code: OK TARGET(ATZ,SZ),OK(ALL CHEMS),NO CONTROL,ENDPOINT(BMC).

Cullimore, D. R. (1975). The In Vitro Sensitivity of Some Species of Chlorophyceae to a Selected Range of Herbicides. *Weed Res.* 15: 401-406.

EcoReference No.: 4871

Chemical of Concern: DU,LNR,PAQT,24DXY,BMC,BMN,DBN,DMB,PCL; Habitat: A; Effect Codes: POP; Rejection Code: NO CONTROL,ENDPOINT(ALL CHEMS).

Dickens, R. and Buchanan, G. A. (1975). Control of Cogongrass with Herbicides. *Weed Sci.* 23: 194-197.

EcoReference No.: 40726

Chemical of Concern: AMTL,BMC,GYP,PRO; Habitat: T; Effect Codes: MOR,POP; Rejection Code: OK(ALL CHEMS),OK TARGET(PRO).

Egley, G. H. and Williams, R. D. (1978). Glyphosate and Paraquat Effects on Weed Seed Germination and Seedling Emergence. *Weed Sci.* 26: 249-251.

EcoReference No.: 41483

Chemical of Concern: GYP,BMC; Habitat: T; Effect Codes: REP,POP; Rejection Code: NO CONTROL,ENDPOINT(BMC).

EPA/OTS (2007). Initial Submission: Acute Oral Toxicity Study With IN-N976-134 in Male & Female Rats With Cover Letter Dated 082092. *EPA/OTS, Doc #88-920008332 NTIS/OTS0546235.*

EcoReference No.: 91282

Chemical of Concern: BMC; Habitat: T; Effect Codes: PHY; Rejection Code: NO CONTROL,ENDPOINT,CONC,DURATION(BMC).

Felton, W. L. (1974). Control of Datura Stramonium with Oxadiazon Under Simulated Spray and Furrow Irrigation. *Weed Res.* 14: 209-212.

EcoReference No.: 41348

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

Finke, R. L., Warner, R. L., and Muzik, T. J. (1977). Effect of Herbicides on In Vivo Nitrate and Nitrite Reduction. *Weed Sci.* 25: 18-22.

EcoReference No.: 42823

Chemical of Concern:

24DXY,ATZ,BMC,DU,SZ,BMN,DMB,TRB,TFN,CNR,CZE,MTZ,AMTL,CPP,IPN,MCPA, HgCl₂,PCL,PPZ; Habitat: T; Effect Codes: BCM; Rejection Code: OK TARGET(ATZ,SZ,DMB),OK(24DXY,DU,BMN,TRB,TFN,LNR,CZE,MTZ,AMTL,CPP,IP N,MCPA,HgCl₂,PCL),NO ENDPOINT,CONTROL(AMTR,PPZ,BMC).

Forster, B., Heifetz, P. B., Lardans, A., Boynton, J. E., and Gillham, N. W. (1997). Herbicide Resistance and Growth of D1 Ala251 Mutants in Chlamydomonas. *Z.Naturforsch.Sect.C* 52: 654-664.

EcoReference No.: 71603

Chemical of Concern: ATZ,BMC,MBZ; Habitat: A; Effect Codes: POP; Rejection Code: LITE EVAL CODED(ATZ),OK(BMC,MBZ).

Gaines, T. B. and Linder, R. E. (1986). Acute Toxicity of Pesticides in Adult and Weanling Rats. *Fundam.Appl.Toxicol.* 7: 299-308.

EcoReference No.: 71303

Chemical of Concern: PNB,EDT,RSM,SZ,DDT,ATZ,DMB,PYZ,TCMTB,PRO,BMC; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(ALL CHEMS).

Gutenmann, W. H. and Lisk, D. J. (1970). Metabolism and Excretion of Bromacil in Milk of Dairy Cows. *J.Agric.Food Chem.* 18: 128-129.

EcoReference No.: 36926

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

Harper, C. W. and Stott, K. G. (1966). The Control of Japanese Knotweed Polygonum Cuspidatum S & Z Experiments Made During 1961-1966. *L Ash Hrs R* 1966: 268-276.

EcoReference No.: 43995

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

Hedley, M. E., Preston, A. F., Cross, D. J., and Butcher, J. A. (1979). Screening of Selected Agricultural and Industrial Chemicals as Wood Preservatives. *Int.Biodeterior.Bull.* 15: 9-18.

EcoReference No.: 80749

Chemical of Concern:

TCMTB,BMY,DINO,PZM,MTZ,AMTR,BS,TCMTB,PNB,GYP,TZL,TBA,ACR,FRM,PTB

Na,CBX,OXC,HXZ,TET,BMC,DOD,Zn,TRB,DIIS; Habitat: T; Effect Codes: GRO,MOR,PHY; Rejection Code: NO ENDPOINT(ALL CHEMS).

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

EcoReference No.: 50181

Chemical of Concern:

PRT,ADC,PMR,PRN,PAQT,ACP,Naled,MLN,HCCH,HPT,FNF,EN,ES,TMP,MTAS,MTM, MOM,AND,ATZ,BMY,DCTP,CBL,Captan,CPY,TBO,DZ,DL,DU,FNTH,AZ,SZ,MANEB, BMC,MP; Habitat: T; Effect Codes: MOR,BEH; Rejection Code: LITE EVAL CODED(ADC,ACP,MLN,MTAS,MTM,MOM,CBL,Captan,DZ,SZ),OK(ALL CHEMS),NO COC(BMC).

Hilton, W. W. and Nomura, N. (1964). Phytotoxicity of Herbicides as Measured by Root Absorption. *Weed Res.* 4: 216-222.

EcoReference No.: 40598

Chemical of Concern:

DU,LNR,PMT,PPZ,SZ,ATZ,PRO,BMC,PPN,24DXY,PAQT,DBN,PCP,EDT; Habitat: T; Effect Codes: MOR; Rejection Code: TARGET(SZ,ATZ).

Hollingsworth, E. B., Quimby, P. C. Jr., and Jaramillo, D. C. (1979). Control of Saltcedar by Subsurface Placement of Herbicides. *J.Range Manag.* 32: 288-291.

EcoReference No.: 41536

Chemical of Concern: TRB,BMC,PCL,DU,DMB,24DXY,As; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS),NO CONTROL,ENDPOINT(BMC).

Horowitz, M., Blumenfeld, T., Herzlinger, G., and Hulin, N. (1974). Effects of Repeated Applications of Ten Soil-Active Herbicides on Weed Population, Residue Accumulation and Nitrification. *Weed Res.* 14: 97-109.

EcoReference No.: 40823

Chemical of Concern: BMC,DU,SZ,PMT,TFN,CTHM,FMU,PYZ; Habitat: T; Effect Codes: GRO,POP; Rejection Code: OK TARGET(SZ,PYZ),NO CONTROL,ENDPOINT(BMC).

Jayachandra (1971). Parthenium Weed in Myore State and Its Control. *Curr.Sci.* 40: 568-569.

EcoReference No.: 41255

Chemical of Concern: BMC; Habitat: T; Effect Codes: PHY,MOR,POP,CEL; Rejection Code: NO CONTROL,ENDPOINT(BMC).

Jayachandra and Menon, V. (1972). Post-Emergent Control of Dicot Weeds with Bromacil. *Curr.Sci.* 49: 120.

EcoReference No.: 41889

Chemical of Concern: BMC; Habitat: T; Effect Codes: PHY,MOR; Rejection Code: NO CONTROL,NO ENDPOINT(TARGET-BMC).

Johnson, B. J. (1975). Smutgrass Control with Herbicides in Turfgrasses. *Weed Sci.* 23: 87-90.

EcoReference No.: 40771

Chemical of Concern: BMC,24DXY,ATZ,DU; Habitat: T; Effect Codes: PHY,POP;

Rejection Code: OK(BMC),OK TARGET(ATZ),NO MIXTURE(24DXY,DU),NO CONTROL,ENDPOINT(BMC).

Jones, K. H., Sanderson, D. M., and Noakes, D. N. (1968). Acute Toxicity Data for Pesticides (1968). *World Rev.Pest Control* 7: 135-143.

EcoReference No.: 70074

Chemical of Concern:

24DXY,ABT,ACL,ADC,AMTL,AMTR,AND,ASM,ATN,ATZ,AZ,BFL,BMC,BMN,BS,BT Y,Captan,CBL,CCA,CHD,CMPH,CPP,CPY,CQTC,CTHM,Cu,CuFRA,DBN,DCB,DCNA,DD,DDT,DDVP,DEM,DINO,DLD,DMB,DMT,DOD,DPP1,DQTBr,DS,DU,DZ,DZM,EDT,EN,EP,EPTC,ES,ETN,FLAC,FMU,FNF,FNT,FNTH,Folpet,HCCH,HPT,LNR,Maneb,MCB,MCPA,MCPB,MCPP1MDT,MLH,MLN,MLT,MRX,MTM,MVP,MXC,Naled,NPM,PB,PCH,PCL,PCP,PEB,PHMD,PHSL,PMT,PPHD,PPN,PPX,PPZ,PQT,PRN,PRO,PRT,PYN,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM,TRB,TRL,TXP,VNT,Zineb; Habitat: T; Effect Codes: MOR; Rejection Code: NO PUBL AS(24DXY,ABT,ACL,AMTL,AMTR,ASM,ATN,AZ,BFL,BMC,BMN,BS,BTY,CCA,CMPH,CPP,CPY,CQTC,CTHM,DBN,DCB,DCNA,DDT,DINO,DOD,DPP1,DQTBr,DU,DZM,EP,EPTC,ES,FMU,FNF,FNT,Folpet,HCCH,HPT,LNR,MCB,MCPP1,MLT,MP,MRX,MTM,MXC,Naled,NPM,Pb,PCH,PCL,PEB,PHSL,PPN,PPZ,PQT,PRO,PYN,PYZ,RTN,RYA,SFT,SID,TFN,THM,TRL,VNT),NO CONTROL,DURATION(ALL CHEMS).

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

EcoReference No.: 40616

Chemical of Concern:

EDT,SZ,24DC,ATZ,24DXY,ACR,BMC,BMN,BS,DBN,DMB,LNR,PQT,TRB,TFN,PYZ,NaN3; Habitat: AT; Effect Codes: POP,GRO; Rejection Code: LITE EVAL CODED(ATZ-aquatic,SZ,PYZ,NaN3-aquatic),NO ENDPOINT(SZ,PYZ,NaN3,DMB-terrestrial,DMB-aquatic),OK(SZ-aquatic,PYZ-aquatic,NAN3-aquatic),OK TARGET(ATZ-terrestrial).

Langeland, K. A. (1986). Management Program for Alligatorweed in North Carolina. *Rep.No.224, Water Resour.Res.Inst.of the Univ.of N.Carolina* 36 p.

EcoReference No.: 90590

Chemical of Concern:

MTPN,SMM,TPR,HXZ,BMC,AMTL,DU,IZP,DMB,FDE,GYP,24DXY; Habitat: AT; Effect Codes: POP; Rejection Code: NO CONTROL(SMM,HXZ,IZP,GYP),NO ENDPOINT(SMM,HXZ,BMC).

Mansour, F. (1987). Effect of Pesticides on Spiders Occurring on Apple and Citrus in Israel. *Phytoparasitica* 15: 43-50.

EcoReference No.: 70244

Chemical of Concern:

ATZ,CPY,FPP,CYP,FNV,PPHD,FVL,Zineb,Maneb,SFR,Captan,TDF,BMC,GYP; Habitat: T; Effect Codes: MOR,POP; Rejection Code: NO ENDPOINT(ALL CHEMS),OK(CPY,FPP,FVL,PPHD).

Meyer, R. E. (1982). Brush Response to Spacing and Individual-Plant Herbicide Treatments. *Weed Sci.* 30: 378-384.

EcoReference No.: 41277

Chemical of Concern:

BMC; Habitat: T; Effect Codes: POP,MOR,PHY; Rejection Code: NO CONTROL,ENDPOINT(BMC).

Meyer, R. E. and Baur, J. R. (1979). Smutgrass (*Sporobolus Poiretii*) Control in Pastures with Herbicides. *Weed Sci.* 27: 361-366.

EcoReference No.: 41467

Chemical of Concern: ATZ,BMC,GYP,HXZ,TET,CFRM; Habitat: T; Effect Codes: PHY,POP; Rejection Code: OK(ALL CHEMS),OK TARGET(CFRM).

Meyer, R. E., Bovey, R. W., and Baur, J. R. (1978). Control of an Oak (*Quercus*) Complex with Herbicide Granules. *Weed Sci.* 26: 444-453.

EcoReference No.: 41488

Chemical of Concern: BMC; Habitat: T; Rejection Code: NO ENDPOINT(BMC).

Meyer, R. E., Morton, H. L., Merkle, M. G., Bovey, R. W., and Davis, F. S. (1970). Brush Control on Forest-Rangelands in East Texas. *J.Range Manag.* 23: 129-132.

EcoReference No.: 42799

Chemical of Concern: 24DXY,BMC,DMB,PCL,PAQT; Habitat: T; Effect Codes: MOR,PHY; Rejection Code: OK(ALL CHEMS),OK TARGET(DMB),NO CONTROL,ENDPOINT(BMC).

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

EcoReference No.: 15281

Chemical of Concern:
24DXY,ACR,BMC,BS,DBN,DU,LNR,MLT,PEB,PMT,PQT,SZ,TBC,PHMD,PYZ,CuS,PCP,PPZ,QOC; Habitat: A; Effect Codes: MOR; Rejection Code: NO FOREIGN,CONTROL,ENDPOINT(QOC).

Nishiuchi, Y. (1972). Toxicity of Pesticides to Some Water Organisms. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 12: 122-128 (JPN) (ENG TRANSL).

EcoReference No.: 10258

Chemical of Concern:
3CE,AC,AMTL,AMTR,AND,As,ATZ,BMC,BS,Captan,CBL,CPA,CPY,CTN,Cu,DBN,DCP A,DDT,DDVP,DLD,DMB,DMT,DPA,DSMA,DU,DZ,EDB,EDC,EN,EPTC,ES,ETN,Fe,FLA C,FML,FNT,FNTH,HCCH,Hg,HPT,LNR,MCAP,MCPB,MCPP1,MDT,MLN,MOM,MP,MT AS,NALED,Ni,NTCN,OPHP,Pb,PCB,PCP,PCZ,PEB,PHMD,PHSL,PHTH,PMT,PNB,PPX,P PZ,PRN,PSM,PYN,SFL,SID,STREP,SZ,TBC,TFN,THM,TPE,TPH,TPM,TRN,Zn; Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(ALL CHEMS)/NO RESIDUE.

Nishiuchi, Y. and Asano, K. (1979). Toxicity of Agricultural Chemicals to Some Freshwater Organisms - 59. *The Aquiculture (Suisan Zoshoku)* 27: 48-55 (JPN) (ENG TRANSL).

EcoReference No.: 6954

Chemical of Concern:
ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DMT,DU,DZ,Folpet,HCCH,LN R,MAL,MDT,MLN,MOM,PCP,PEB,PHMD,PMT,PNB,PPG,PQT,PSM,QOC,TBC,TFN,RT N,CuCl,PPZ,Zn,Ni,As,DCB; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(MLN),NO CONTROL(BMC,CTN,QOC),OK(ALL CHEMS).

Nishiuchi, Y. and Asano, K. (1979). Toxicity of Pesticides to Some Fresh Water Organisms. LIX. *The Aquiculture /Suisan Zoshoku* 27: 48-55 (JPN) (ENG TRANSL).

EcoReference No.: 6954

Chemical of Concern:

ACP,ACR,ATZ,BMC,BT,Captan,CPY,CTN,Cu,CuOH,CuS,DMT,DU,DZ,Folpet,HCCH,LN
R,MAL,MDT,MLN,MOM,PEB,PHMD,PMT,PNB,PPG,PQT,PSM,TBC,TFN,RTN,CuCl;
Habitat: A; Effect Codes: MOR; Rejection Code: NO CONTROL(ALL CHEMS).

Office of Pesticide Programs (2000). Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). *Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.*

EcoReference No.: 344

Chemical of Concern:

4AP,24DXY,ACL,ACP,ACR,Ag,AKTMD,ALSV,APAC,AQS,AsAC,ASCN,ATM,ATN,AT
Z,AZ,BBN,BDF,BFT,BMC,BML,BMN,Br2,BrCl,BRSM,BS,BT,CaPS,Captan,CBF,CBL,CF
E,CFE,CFRM,CLNB,CLP,CMPH,CPC,CPY,CQTC,CrACCTN,CTZ,Cu,CuFRA,CuO,CuOT,
CuTE,CuS,CYD,CYF,CYP,CYT,DBN,DCNA,DBAC,DDAC,DFT,DFZ,DIIS,DKGNa,DM,
DMB,DMM,DMP,DMT,DOD,DPC,DPDP,DPP1,DPP2,DS,DSP,DU,DZ,DZM,EFL,EFS,EF
V,EP,FHX,FAME,FMP,FO,Folpet,FPN,FPP,FTN,FVL,GTN,GYP,HCCH,HXZ,IGS,IODN,I
PD,IZP,KMFD,LNR,MAL,MB,MBZ,MCPP1,MCPP2,MDT,MFDD,MFX,MFZ,MGK,MLN,
MLT,MOM,MP,MTC,MTL,MTM,NAA,NaBr,Naled,NAPH,NFZ,NPP,OTN,OXF,OXT
,OYZ,PCP,PCZ,PDM,PEB,PHMD,PMR,PMT,PNB,PPB,PPG,PPMH,PPZ,PQT,PRB,PRT,PS
M,PYN,PYZ,RSM,RTN,SMM,SMT,SS,SXD,SZ,TBC,TBD,TCMTB,TDC,TDF,TDZ,TET,T
FN,TFR,TMT,TPR,TRB,WFN,ZnP,PRO; Habitat: AT; Effect Codes:
MOR,POP,PHY,GRO,REP; Rejection Code: NO EFED (344).

Peevy, F. A. (1973). Bromacil and Picloram Under Southern Upland Hardwoods. *Weed Sci.* 21: 54-56.

EcoReference No.: 41256

Chemical of Concern: BMC,PCL; Habitat: T; Effect Codes: GRO; Rejection Code: NO
CONTROL(ALL CHEMS).

Pool, R. A. F. (1977). A Rapid Bioassay for Pesticide Phytotoxicity. *J.Agric.Food Chem.* 25: 1216-1218.

EcoReference No.: 43504

Chemical of Concern: SZ,BMC,CBL,DU,Captan,MLN,TFN,GYP,DCPA,BMY,MANEB;
Habitat: T; Effect Codes: BCM; Rejection Code: NO ENDPOINT,CONTROL(ALL
CHEMS).

Rajanna, B. and De la Cruz, A. A. (1975). Mirex Incorporation in the Environment: Phytotoxicity on Germination, Emergence, and Early Growth of Crop Seedlings. *Bull.EnvIRON. Contam.Toxicol.* 14: 77-82.

EcoReference No.: 41347

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

Grasses and Toetoe. *P Nz Wd C C* 28: 173-176.

EcoReference No.: 41231

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

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

EcoReference No.: 4008

Chemical of Concern: ATZ,HCCH,MP,BMC,DU,CuS,PCP; Habitat: A; Effect Codes:

POP,PHY; Rejection Code: LITE EVAL CODED(ATZ,CuS,PCP),OK(ALL CHEMS).

Shriver, J. W. and Bingham, S. W. (1973). Physiological Effects of Bromacil on Kentucky Bluegrass and Orchardgrass. *Weed Sci.* 21: 212-217.

EcoReference No.: 42708

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

Stojanovic, B. J., Kennedy, M. V., and Shuman, F. L. Jr. (1972). Edaphic Aspects of the Disposal of Unused Pesticides, Pesticide Wastes, and Pesticide Containers. *J. Environ. Qual.* 1: 54-62.

EcoReference No.: 90589

Chemical of Concern:

ATZ,BMC,CBL,24DXY,DDT,DMB,DLD,DU,MLN,PAQT,PCL,TFN,VNT,Zineb; Habitat: T; Effect Codes: POP; Rejection Code: NO ENDPOINT(ATZ,BMC,CBL,DMB,MLN).

Stott, K. G. (1964). The Effects of Applying Amitrole-T, Simazine, Bromacil and MCPA for the Control of Perennial Nettle (*Urtica dioica*) in Mature Willow Beds. *L Ash Hrs R* 1964: 211-217.

EcoReference No.: 42348

Chemical of Concern: SZ,BMC,PAH,MCPA; Habitat: T; Effect Codes: POP,GRO; Rejection Code: OK TARGET(SZ),NO CONTROL,ENDPOINT(BMC).

Stott, K. G. (1964). Further Experiments on the Effects of Time of Application on Some Herbicides on the Control of Field Thistle (*Cirsium arvense* (L.) Scop.) in Mature Willow Beds. *L Ash Hrs R* 1964: 218-229.

EcoReference No.: 42347

Chemical of Concern: BMC,DU,SZ,AMT,MCPA; Habitat: T; Effect Codes: POP,GRO; Rejection Code: OK TARGET(SZ),NO CONTROL,ENDPOINT(BMC).

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; Habitat: A; Effect Codes: POP; Rejection Code: NO ENDPOINT(BMC,SZ,24DXY).

Suzuki, T., Umedzu, K., Itagaki, Y., and Tuzimura, K. (1977). A Comparative Study on the Analysis of Herbicide "Bromacil" Using ECD-Gas Chromatography and Mass Fragmentography. *Agric. Biol. Chem.* 41: 775-779.

EcoReference No.: 90518

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

Teran, A. L., Alvarez, R. A., and Orlando, C. A. (1993). Effect of Currently Used Pesticides in Citrus Orchards on Two Aphelinid Parasitoids: Laboratory Tests. *J. Appl. Entomol.* 116: 20-24.

EcoReference No.: 90421

Chemical of Concern: GYP,BMC,PAQT,DU,BMY,MZB,Zineb,DCF,MDT,EPRN,CPY; Habitat: T; Effect Codes: MOR; Rejection Code: NO MIXTURE(DCF),NO ENDPOINT(GYP,BMC,MZB),OK(CPY).

Tewari, M. N. and Balasimha, D. (1976). The Influence of Substituted Ureas and Uracil on Growth, Sugar

Content and Peroxidase Activity in Fenugreek (*Trigonella foenum Graecum* L.) Seedlings. *Indian J.Plant Physiol.* 19: 127-219.

EcoReference No.: 41793

Chemical of Concern: BMC,DU,TRB; Habitat: T; Effect Codes: BCM; Rejection Code: NO CONTROL,ENDPOINT(BMC).

Ueckert, D. N. and Whisenant, S. G. (1982). Individual Plant Treatments for Controlling Redberry Juniper Seedlings . *J.Range Manag.* 35: 419-423.

EcoReference No.: 41265

Chemical of Concern: BMC,GYP,HXZ,TPR,PCL,TET,DMB; Habitat: T; Effect Codes: MOR; Rejection Code: OK TARGET(DMB),OK(ALL CHEMS),NO CONTROL,ENDPOINT(BMC).

Valencia, R. (1977). Mutagenesis Screening of Pesticides *Drosophila*. *EPA Rep.68-01-2474* 70 p.

EcoReference No.: 90924

Chemical of Concern:

ACP,AZ,BMC,Captan,CBF,CPY,DEM,DMT,FNTH,Folpet,MLN,MOM,MXC,PRN,SID,SZ,TCF,TFN; Habitat: T; Effect Codes: CEL,MOR; Rejection Code: NO ENDPOINT(ALL CHEMS).

Wang, W. (1994). Rice Seed Toxicity Tests for Organic and Inorganic Substances. *Environ.Monit.Assess.* 29: 101-107.

EcoReference No.: 45060

Chemical of Concern: Ag,Cd,Cr,Cu,Mn,F,Ni,Pb,Zn,24DXY,BMC,GYP,CuCl,PAQT; Habitat: AT; Effect Codes: GRO; Rejection Code: LITE EVAL CODED(CuCl),NO ENDPOINT(BMC),OK(ALL CHEMS)//No Media:Aqu,Om,Ph(EcoSSL)//.

Wardle, D. A., Yeates, G. W., Watson, R. N., and Nicholson, K. S. (1995). The Detritus Food-Web and the Diversity of Soil Fauna as Indicators of Disturbance Regimes in Agro-Ecosystems. *Plant Soil* 170: 35-43.

EcoReference No.: 90524

Chemical of Concern: ATZ,BMC,TBZ; Habitat: T; Effect Codes: POP; Rejection Code: NO CONTROL(ATZ,BMC).

Waters, M. D., Sandhu, S. S., Simmon, V. F., Mortelmans, K. E., Mitchell, A. D., Jorgenson, T. A., Jones, D. C. L., Valencia, R., and Garrett, N. E. (1982). Study of Pesticide Genotoxicity. *Basic Life Sci.* 21: 275-326.

EcoReference No.: 89613

Chemical of Concern: AZ,Captan,CPY,DEM,EN,MLN,MP,SID,24DXY,Maneb,MXC,BMC; Habitat: T; Effect Codes: MOR,CEL; Rejection Code: NO ENDPOINT(ALL CHEMS).

Weber, J. B. (1977). The Pesticide Scorecard. Toxicological Effects, Biological Distributions, and the Fate of These Chemicals can be Quantified in a Simplified, Straightforward Manner. *Environ.Sci.Technol.* 11: 756-761.

EcoReference No.: 19577

Chemical of Concern:

24DXY,PCL,ATZ,AMTR,CZE,PRO,EDT,AND,HCCH,DDT,DLD,EN,DDVP,ACR,BMC,Captan,DS,MLN,PRN,PRT,CBL,CBF,CuS,Cu,DMB,DU,Hg,PYZ; Habitat: AT; Rejection Code: NO REVIEW,NO REFS CHECKED.

Wilkins, R. M. and Metcalfe, R. J. (1993). Toxicity of Soil Applied Herbicides to Brine Shrimp Larvae (*Artemia salina*) and Synergism with Other Pesticides. *Brighton Crop Prot.Conf.- Weeds 1*: 163-74.

EcoReference No.: 70574

Chemical of Concern: SZ,ATZ,CBF,MLN,BMC; Habitat: A; Effect Codes: MOR;

Rejection Code: LITE EVAL CODED(ATZ,MLN,SZ),OK(ALL CHEMS).

Yeates, G. W., Wardle, D. A., and Watson, R. N. (1993). Relationships Between Nematodes, Soil Microbial Biomass and Weed-Management Strategies in Maize and Asparagus Cropping Systems. *Soil Biol.Biochem.* 25: 869-876.

EcoReference No.: 90525

Chemical of Concern: BMC,ATZ,RIM; Habitat: T; Effect Codes: POP; Rejection Code:

NO CONTROL(ATZ,BMC).

G.4. List of exclusion terms (rejection codes) utilized for reviewing studies considered for ECOTOX database

Review--all toxicity tests reported elsewhere. If the publication is applicable to one of the ECOTOX databases, the bibliography is skimmed and any applicable articles are ordered.

Methods--no usable toxicity tests. Reports of methods of conducting tests, determination or purification of chemicals, etc. Methods publications are selected to be ordered for the ECOTOX toxicology methods information file (Methfile).

Modeling only, no new organism exposure data. Modeling studies may report original toxicity tests performed as comparisons or as a basis for extrapolation; order the paper if it is not clear from the abstract.

Other ambient conditions--effects on organisms from changes in conditions other than addition of chemicals, including radioactivity, ultraviolet light (UV), temperature, pH, salinity, dissolved oxygen (DO), or other water, air, or soil parameters.

Biological Toxicant--includes venoms, fungal toxins, *Bacillus thuringiensis*, other plant, animal, or microbial extracts or toxins.

Drug--testing for drug effects and side-effects .

Effluent, sewage, or polluted runoff.

Mixture--no single chemical tests reported.

Nutrient studies--in situ chemicals tested as nutrients.

No Species--no organism present or tested or unable to verify a species or exposure of dead organism.

In Vitro studies, including exposure of cell cultures and excised tissues.

Bacteria as test organism, including **Microtox** tests, or other microbial organisms.

Yeast as a test organism is historically not coded in ECOTOX.

No Toxicity Data--publications which are not toxicology studies.

Human Health effects; studies with human subjects or with animal subjects as surrogates for human health risk assessment.

No Concentration--no usable dose or concentration reported; identified after examination of full paper. Includes lead-shot studies which lack dose information or give only number of pellets. Concentrations reported only in log units are not coded.

Sediment Concentration--chemical concentration reported in sediment only. Sediment studies are coded for AQUIRE only if a water concentration of the added chemical is also reported; order the publication if unclear from the abstract.

No Duration reported, identified after examination of full paper.

Incident papers--reports of animal deaths by poison, etc. Lacks usable concentration or duration or both.

Survey studies--measuring amounts of chemical present, but no usable quantification of exposure. Lacks either usable concentration or duration or both.

Fate: Studies reporting only what happens to the chemical in abiotic matrices

Food Studies, no chemical and effects information are reported

PUBL AS, author has results were published in a different format. For example, may be used for a Ph.D. dissertation when the same results were also published in a peer-reviewed journal.

NON-ENGLISH or **FORE**, paper was published in a foreign language.

G.5. Citations relevant to bromacil but excluded by ECOTOX

The following citations are relevant to bromacil but were excluded from ECOTOX. The rejection codes for each citation are included. For more explanation of rejection codes, see Section G.4, above.

1. 1994). Addition of certain chemicals; toxic chemical release reporting; community right-to-know. *Federal Register* 59: 61432-85.
; Habitat: AT
2. 1989). Air contaminants. *Federal Register* 54: 2332-983.
; Habitat: T
3. 1992). Air contaminants (NOT DUPLICATE). *Federal Register* 57: 26002-601.
; Habitat: T
4. 1985). Pesticide chemicals category effluent limitations guidelines, pretreatment standards, and new source performance standards. *Federal Register* 50: 40672-777.
; Habitat: AT
5. 1992). Pesticide chemicals manufacturing category effluent limitations guidelines, pretreatment standards, and new source performance standards. *Federal Register* 57: 12560-601.

Rejection Code: NO TOX DATA.

6. 1992). Pesticide chemicals manufacturing category effluent limitations guidelines, pretreatment standards, and new source performance standards. *Federal Register* 57: 12560-601.
; Habitat: AT
7. 1991). Puget Sound pesticide reconnaissance survey, 1990.
Rejection Code: NO SPECIES.
8. 1991). Puget Sound pesticide reconnaissance survey, 1990.
Rejection Code: SURVEY.
9. 1970). Transfer of bromacil to milk: Gutenman, W. H. & Lisk, D. J. (1970). Metabolism and excretion of bromacil in milk of dairy cows. *J. agric. Fd Chem.* 18, 128. *Food and Cosmetics Toxicology* 8: 594-595.
; Habitat: T
10. Abbott, Derek C., Blake, K. W., Tarrant, K. R., and Thomson, James (1967). Thin-layer chromatographic separation, identification, and estimation of residues of carbamate and allied pesticides in soil and water. *Journal of Chromatography* 30: 136-42.
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11. Acher, A., Fischer, E., Turnheim, R., and Manor, Y. (1997). Ecologically Friendly Wastewater Disinfection Techniques. *Water research* 31: 1398-1404.
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13. Acher, Aurel J. (1982). The fate of organic pollutants in frozen waters: sunlight photodecomposition of uracil herbicides in frozen aqueous solutions. *Water Research* 16: 405-410.
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15. Adams, V. D. , Watts, R. J., and Pitts, M. E. (1985). Organics (NOT DUPLICATE). *J water pollut control fed* 57: 463-493.
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16. Admans, Gary , Takahashi, Yoshimasa, Ban, Satoshi, Kato, Hiroaki, Abe, Hidetsugu, and Hanai, Sosuke (2001). Artificial neural network for predicting the toxicity of organic molecules. *Bulletin of the Chemical Society of Japan* 74: 2451-2461.
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17. Adrian, N. R. and Suflita, J. M. (1990). Reductive Dehalogenation of a Nitrogen Heterocyclic Herbicide in Anoxic Aquifer Slurries. *Appl environ microbiol* 56: 292-294.
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19. Aga, D. S. (1997). Environmental Immunoassays: Practical Applications and Recent Developments. *Analisis* 25: M25-m29.
; Habitat: AT
20. Aguera, A. and Fernandez-Alba, A. R. (1998). Gc-Ms and Lc-Ms Evaluation of Pesticide Degradation Products Generated Through Advanced Oxidation Processes: an Overview. *Analisis* 26: M123-m130.
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21. Aharonson, N., Rubin, B., Katan, J., and Benjamin, A (1983). Effect of methyl bromide or solar heating treatments on the persistence of pesticides in the soil. *Pestic. Chem.: Hum. Welfare Environ., Proc. Int. Congr. Pestic. Chem., 5th* 4: 189-92.
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Rejection Code: NO SPECIES.
23. Ali, A., Sharma, A., and Chaudhry, G. R. (1987). Microbiol Degradation of Bromacil. *87th annual meeting of the american society for microbiology, atlanta, georgia, usa, march 1-6, 1987. Abstr annu meet am soc microbiol* 87: 283.
; Habitat: AT
24. Alikhanidi, Sokratis and Takahashi, Yoshimasa (2004). Pesticide persistence in the environment - collected data and structure-based analysis. *Journal of Computer Chemistry, Japan* 3: 59-70.
; Habitat: AT
25. Allender, W. J (1991). Movement of bromacil and hexazinone in a municipal site. *Bulletin of Environmental Contamination and Toxicology* 46: 284-91.
; Habitat: AT
26. Allender, W. J. (1991). Movement of Bromacil and Hexazinone in a Municipal Site Tibooburra New South Wales Australia. *Bull environ contam toxicol* 46: 284-291.
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Rejection Code: FATE.
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; Habitat: T
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Rejection Code: METHOD.
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Rejection Code: NO SPECIES.
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Rejection Code: NO SPECIES.
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Rejection Code: NO SPECIES.
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