

Appendix F

ECOTOX Open Literature Bibliography

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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.

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

June 2010 ECOTOX run

Diquat Dibromide Papers that Were Accepted

Acceptable for EcoTox and OPP

Abe, T., Kinda, T., Takano, Y., Chikazawa, S., Higuchi, M., Kawasaki, N., Orino, K., and Watanabe, K. (2006). Relationship Between Body Iron Stores and Diquat Toxicity in Male Fischer-344 Rats. *Biometals* 19: 651-657.

EcoReference No.: 111105

Chemical of Concern: DQTBr,Fe; Habitat: T; Effect Codes: BCM,MOR; Code: LITE EVAL CODED(DQTBr).

Anderson, D., McGregor, D. B., and Purchase, I. F. H. (1976). Dominant Lethal Studies with Paraquat and Diquat in Male CD-1 Mice. *Mutat.Res.* 40: 349-358.

EcoReference No.: 104497

Chemical of Concern: PAQT,DQT; Habitat: T; Effect Codes: MOR,CEL,REP; Code: LITE EVAL CODED(DQT),OK(PAQT).

Anton, P., Theodorou, V., Fioramonti, J., and Bueno, L. (1998). Low-Level Exposure to Diquat Induces a Neurally Mediated Intestinal Hypersecretion in Rats: Involvement of Nitric Oxide and Mast Cells. *Toxicol.Appl.Pharmacol.* 152: 77-82.

EcoReference No.: 111934

Chemical of Concern: DQT; Habitat: T; Effect Codes: PHY,BCM; Code: LITE EVAL CODED(DQT).

Anton, P. M., Theodorou, V., Bertrand, V., Eutamene, H., Aussenac, T., Feyt, N., Fioramonti, J., and Bueno, L. (2000). Chronic Ingestion of a Potential Food Contaminant Induces Gastrointestinal Inflammation in Rats. Role of Nitric Oxide and Mast Cells. *Dig.Dis.Sci.* 45: 1842-1849.

EcoReference No.: 110960

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Anton, P. M., Theodorou, V., Roy, S., Fioramonti, J., and Bueno, L. (2002). Pathways Involved in Mild Gastrointestinal Inflammation Induced by a Low Level Exposure to a Food Contaminant. *Dig.Dis.Sci.* 47 : 1308-1315.

EcoReference No.: 110964

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Bailey, T. A. and Jeffrey, S. M. (1989). Evaluation of 215 Candidate Fungicides for Use in Fish Culture. *Invest.Fish Control No.99, Fish Wildl.Serv., Bur.Sport Fish.Wildl., U.S.D.I., Washington, DC* 9 p.

EcoReference No.: 895

Chemical of Concern:

ANZ,BMY,BRA,BSN881,BTN,Captan,Cu,CuOS,CuOX,CuS,DBAC,DIIS,DLN,DPHP,DQTBr,FML,Folp et,ILL,KDDC,KI,KPM,MEM,MLX,MZB,NaPTN,OPHP,OTQ,OYZ,PPMH,PPR,PXDZN,SBAK,TBA,TC MTB,TDF,TDM,TFM,TFR,THM,TPTH,Zineb; Habitat: A; Effect Codes: POP,PHY; Code: LITE EVAL

June 2010 ECOTOX run

CODED(CuS,CuOS,CuOX,DQTBr,OYZ,DIIS,TCMTB,DBAC,Folpet),OK(ANZ,CuOS,CuOX,DLN,DPH P,DQTBr, FML,ILL,KPM,MEM,NaPTN,PPMH,TBA,TFM,THM,TPTH,Zineb),NO
ENDPOINT(BMY,BRA,BSN881,BTN,Cu,KDDC,KI,MLX,MZB,OPHP,OTQ,PPR,PXDZn,SBK,TDF,T
DM,TFR,Captan,CuCO,CuS).

Bainova, A. and Vulcheva, V. (1978). Chronic Action of Diquat on Lungs. *Dokl.Bolg.Akad.Nauk* 31: 1369-1372.

EcoReference No.: 111949

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: CEL,MOR; Code: LITE EVAL
CODED(DQTBr).

Bainova, A., Zaprianov, Z., and Kaloyanova-Simeonova, F. (1980). Effect of Pesticides on the Activity of Monoamine Oxidase (MAO) in Rats. *Proc.Int.Congr.Occup.Health, 19th* 1: 531-535.

EcoReference No.: 94003

Chemical of Concern:

DQTBr,PAQT,BFL,PCH,Zineb,DCF,HCCH,ATZ,TDF,Naled,PFF,DDVP,PIRM,DM; Habitat: T;
Effect Codes: BCM; Code: LITE EVAL
CODED(PFF,Naled,ATZ,BMY,PAQT,DCF,PPX,DM,DQTBr),OK(Zineb,TDF,PIRM,DDVP).

Bauman, J. W., Liu, J., Liu, Y. P., and Klaassen, C. D. (1991). Increase in Metallothionein Produced by Chemicals that Induce Oxidative Stress. *Toxicol.Appl.Pharmacol.* 110: 347-354.

EcoReference No.: 104407

Chemical of Concern: PAQT,DQT; Habitat: T; Effect Codes: BCM; Code: LITE EVAL
CODED(PAQT,DQT).

Benzick, A. E., Reddy, S. L., Gupta, S., Rogers, L. K., and Smith, C. V. (1994). Diquat- and Acetaminophen-Induced Alterations of Biliary Efflux of Iron in Rats. *Biochem.Pharmacol.* 47: 2079, 2085 (doi: 10.1016/0006-2952(94)90084-1).

EcoReference No.: 110922

Chemical of Concern: ATP,FeS,DQT; Habitat: T; Effect Codes: BCM; Code: LITE EVAL
CODED(DQT,FeS).

Bishop, W. E. and Perry, R. L. (1981). Development and Evaluation of a Flow-Through Growth Inhibition Test with Duckweed (*Lemna minor*). In: *D.R.Branson and K.L.Dickson (Eds.), Aquatic Toxicology and Hazard Assessment, 4th Conf., ASTM STP 737, Philadelphia, PA* 421-435 (Author Communication Used).

EcoReference No.: 15273

Chemical of Concern: CuS,DQTBr; Habitat: A; Effect Codes: POP; Code: LITE EVAL
CODED(CuS,DQTBr).

Bus, J. S., Preache, M. M., Cagen, S. Z., Posner, H. S., Eliason, B. C., Sharp, C. W., and Gibson, J. E. (1975). Fetal Toxicity and Distribution of Paraquat and Diquat in Mice and Rats. *Toxicol.Appl.Pharmacol.* 33: 450-460.

EcoReference No.: 36028

Chemical of Concern: DQT,PAQT; Habitat: T; Effect Codes: ACC,REP,GRO,MOR; Code: LITE
EVAL CODED(DQT,PAQT).

Butler, P. A. (1965). Effects of Herbicides on Estuarine Fauna. *Proc.South.Weed Conf.* 18: 576-580.

EcoReference No.: 14134

Chemical of Concern:

DU,ATZ,AMTR,PMT,PRO,ACL,DCPA,PAQT,MLT,NTP,TBF,VNT,EPTC,PCL,PEB,DDT,24DXYBEE,
24D,DMDP,DQTBr,BS,BTY,EDTC; Habitat: A; Effect Codes: MOR,GRO,POP; Code: LITE

June 2010 ECOTOX run

EVAL CODED(DCPA,EPTC,24DXYBEE,PRO,ATZ,MLT,ACL,TBF,DU,PAQT,DQTBr),NO
ENDPOINT(24D,DMDP),OK(AMTR,PMT,NTP,VNT,PCL,PEB,DDT).

Cain, J. R. and Cain, R. K. (1983). The Effects of Selected Herbicides on Zygospore Germination and Growth of *Chlamydomonas moewusii* (Chlorophyceae, Volvocales). *J. Phycol.* 19: 301-305.

EcoReference No.: 61203

Chemical of Concern:

EDT,ATZ,DU,PCL,24DXY,PAQT,PRO,PPN,DMB,LNR,ACR,AMTR,BMN,AMTL,PQT,DQTBr;

Habitat: A; Effect Codes: POP,REP; Code: LITE EVAL

CODED(LNR,PRO,ATZ,DU,PPN,PQT,DQTBr),OK(EDT,PCL,PAQT,DMB,AMTR,BMN,AMTL),NO
ENDPOINT(24DXY,ACR).

Cedergreen, N., Andersen, L., Olesen, C. F., Spliid, H. H., and Streibig, J. C. (2005). Does the Effect of Herbicide Pulse Exposure on Aquatic Plants Depend on Kow or Mode of Action? *Aquat. Toxicol.* 71: 261-271.

EcoReference No.: 80954

Chemical of Concern: DQTBr,TBZ,IZX,MTSM,PZM,PDM; Habitat: A; Effect Codes:

GRO,MOR,ACC; Code: LITE EVAL CODED(PDM,TBZ,DQTBr,PZM).

Cedergreen, N. and Streibig, J. C. (2005). The Toxicity of Herbicides to Non-Target Aquatic Plants and Algae: Assessment of Predictive Factors and Hazard. *Pest Manag.Sci.* 61: 1152-1160.

EcoReference No.: 88207

Chemical of Concern: PDM,MST,DQTBr,MCPA,MCPPI,GYPI,TSF,MTSM,TBZ,BT; Habitat: A;

Effect Codes: GRO; Code: LITE EVAL CODED(GYPI,PDM,TBZ,DQTBr),OK(MCPPI).

Chernoff, N., Setzer, R. W., Miller, D. B., Rosen, M. B., and Rogers, J. M. (1990). Effects of Chemically Induced Maternal Toxicity on Prenatal Development in the Rat. *Teratology* 42: 651-658.

EcoReference No.: 80558

Chemical of Concern: DQTBr,24D,TXP,CCA; Habitat: T; Effect Codes: MOR,GRO,ACC,REP;

Code: LITE EVAL CODED(24D,DQTBr).

Chung, K. W., Chandler, A. R., and Key, P. B. (2008). Toxicity of Carbaryl, Diquat Dibromide, and Fluoranthene, Individually and in Mixture, to Larval Grass Shrimp, *Palaemonetes pugio*. *J. Environ.Sci. Health Part B* 43: 293-299.

EcoReference No.: 112130

Chemical of Concern: FA,DQTBr,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL

CODED(DQTBr,CBL,FA).

Clothier, B., Robinson, S., Akhtar, R. A., Francis, J. E., Peters, T. J., Raja, K., and Smith, A. G. (2000). Genetic Variation of Basal Iron Status, Ferritin and Iron Regulatory Protein in Mice: Potential for Modulation of Oxidative Stress. *Biochem.Pharmacol.* 59: 115-122.

EcoReference No.: 111940

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: ACC; Code: LITE EVAL

CODED(DQTBr).

Coulombe, P., Filion, P. R., and Cote, M. G. (1984). Ready Evaluation of Lung Alveolar Toxic Damage with Histological Sections Morphometry. *Toxicol.Lett.* 20: 263, 269 (doi: 10.1016/0378-4274(84)90158-9).

EcoReference No.: 110557

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

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Coulombe, P. A. and Cotq, M. G. (1988). Application of Linear Integration in the Morphometric Study of Mild and Severe Pulmonary Aveolar Injury. *Exp.Mol.Pathol.* 48: 77, 96 (doi: 10.1016/0014-4800(88)90047-0).

EcoReference No.: 111862

Chemical of Concern: DQT; Habitat: T; Effect Codes: GRO,PHY; Code: LITE EVAL CODED(DQT).

Coulombe, P. A., Lassonde, G., and Cote, M. G. (1987). Acute Sensitivity of BHT-Induced Alveolar Toxicity to a Diquat Challenge in Murine Lungs. *Exp.Mol.Pathol.* 47: 241, 261 (doi: 10.1016/0014-4800(87)90078-5).

EcoReference No.: 111863

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

Coutellec, M. A., Delous, G., Cravedi, J. P., and Lagadic, L. (2008). Effects of the Mixture of Diquat and a Nonylphenol Polyethoxylate Adjuvant on Fecundity and Progeny Early Performances of the Pond Snail *Lymnaea stagnalis* in Laboratory Bioassays and Microcosms. *Chemosphere* 73: 326-336.

EcoReference No.: 111957

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

Crosby, D. G. and Tucker, R. K. (1966). Toxicity of Aquatic Herbicides to *Daphnia magna*. *Science* 154: 289-291.

EcoReference No.: 2775

Chemical of Concern: EDT,24DXY,DBN,DU,MLT,PAQT,PPN,AMTL,MCPA,As,PQT,DQTBr; Habitat: A; Effect Codes: PHY,MOR; Code: LITE EVAL CODED(24DXY,MLT,DU,PPN,PQT,DQTBr).

Darvas, B., Rees, H. H., Hoggard, N., El-Din, M. H. T., Kuwano, E., Belai, I., and Timar, T. (1992). Cytochrome P-450 Inducers and Inhibitors Interfering with Ecdysone 20-Monooxygenases and Their Activities During Postembryonic Development of *Neobellieria bullata* Parker. *Pestic.Sci.* 36: 135-142.

EcoReference No.: 96775

Chemical of Concern: MTPN,DQTBr,FRM,PPB,PQT; Habitat: T; Effect Codes: MOR,PHY,GRO; Code: LITE EVAL CODED(DQTBr,PQT),OK(FRM,MTPN,PPB).

Darvas, B., Zdarek, J., Timar, T., and El-Din, M. H. T. (1990). Effects of the Bipyridylum Herbicides Diquat Dibromide and Paraquat Dichloride on Growth and Development of *Neobellieria bullata* (Diptera: Sarcophagidae) Larvae. *J.Econ.Entomol.* 83: 2175-2180.

EcoReference No.: 107500

Chemical of Concern: DQTBr,PQT; Habitat: T; Effect Codes: MOR,GRO; Code: LITE EVAL CODED(DQTBr),OK(PQT).

De Zwart, L. L., Vermeulen, N. P. E., Hermanns, R. C. A., Commandeur, J. N. M., Salemink, P. J. M., and Meerman, J. H. N. (1999). Urinary Excretion of Biomarkers for Radical-Induced Damage in Rats Treated with NDMA or Diquat and the Effects of Calcium Carbimide Co-Administration. *Chem.-Biol.Interact.* 117: 151-172.

EcoReference No.: 99513

Chemical of Concern: CaCY,DQTBr; Habitat: T; Effect Codes: BCM,GRO,CEL; Code: LITE EVAL CODED(CaCY,DQTBr).

Devillers, J., Meunier, T., and Chambon, P. (1985). Usefulness of the Dosage-Effect-Time Relation in Ecotoxicology for the Determination of Different Chemical Classes of Toxicants (Interet de la Relation Dose-Effet-Temps en Ecotoxicologie pour la Determination des Differentes Classes Chimiques de Toxiques). *Tech.Sci.Munic.* 80: 329-334 (FRE) (ENG ABS).

June 2010 ECOTOX run

EcoReference No.: 17456

Chemical of Concern: 24DXY,DMT,DS,DZ,HCCH,MLN,CuS,PCP,Zn,PL,ZnS,DDVP,ES,PQT,DQTBr;
Habitat: A; Effect Codes: MOR; Code: LITE EVAL
CODED(DS,24DXY,MLN,DZ,ZnS,DMT,DDVP,ES,PQT,DQTBr).

Dimitrov, B. D., Gadeva, P. G., Benova, D. K., and Bineva, M. V. (2006). Comparative Genotoxicity of the Herbicides Roundup, Stomp and Reglone in Plant and Mammalian Test Systems. *Mutagenesis* 21: 375-382.

EcoReference No.: 97687

Chemical of Concern: DQTBr,GYPI,PDM; Habitat: T; Effect Codes: CEL; Code: LITE EVAL
CODED(GYPI,PDM,DQTBr).

Fairchild, J. F., Ruessler, D. S., Haverland, P. S., and Carlson, A. R. (1997). Comparative Sensitivity of *Selenastrum capricornutum* and *Lemna minor* to Sixteen Herbicides. *Arch.Environ.Contam.Toxicol.* 32: 353-357.

EcoReference No.: 18093

Chemical of Concern: 24DXY,ACR,ATZ,BMN,MBZ,MTL,PAQT,SZ,DMM,TFN,EPTC,PQT,DQTBr;
Habitat: A; Effect Codes: POP; Code: LITE EVAL
CODED(EPTC,24DXY,ATZ,MTL,SZ,ACR,PQT,TFN,DQTBr).

Filizadeh, Y. and Murphy, K. J. (2002). Response of Sago Pondweed to Combinations of Low Doses of Diquat, Cutting, and Shade. *J.Aquat.Plant Manag.* 40: 72-76.

EcoReference No.: 111927

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

Gaivao, I., Sierra, L. M., and Comendador, M. A. (1999). The W/W+ Smart Assay of *Drosophila melanogaster* Detects the Genotoxic Effects of Reactive Oxygen Species Inducing Compounds. *Mutat.Res.* 440: 139-145.

EcoReference No.: 104637

Chemical of Concern: PQT,DQTBr; Habitat: AT; Effect Codes: GRO,PHY; Code: LITE EVAL
CODED(PQT,DQTBr).

Gallagher, E. P., Buetler, T. M., Stapleton, P. L., Wang, C., Stahl, D. L., and Eaton, D. L. (1995). The Effects of Diquat and Ciprofibrate on mRNA Expression and Catalytic Activities of Hepatic Xenobiotic Metabolizing and Antioxidant Enzymes in Rat Liver. *Toxicol.Appl.Pharmacol.* 134: 81-91 (doi: 10.1006/taap.1995.1171).

EcoReference No.: 110555

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL
CODED(DQT).

Garten, C. T. Jr. (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: CuS,SZ,24D,ACR,BMC,BMN,LNR,DU,STRP,DQTBr; Habitat: AT; Effect Codes: GRO,PHY,BCM,POP; Code: LITE EVAL
CODED(LNR,24D,BMC,SZ,CuS,DU,STRP,ACR,DQTBr).

Glomskt, L. A. M., Skogerboe, J. G., and Getsinger, K. D. (2005). Comparative Efficacy of Diquat for Control of Two Members of the Hydrocharitaceae: Elodea and Hydrilla. *J.Aquat.Plant Manag.* 43: 103-105.

EcoReference No.: 111858

June 2010 ECOTOX run

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

Gorzerino, C., Quemeneur, A., Hillenweck, A., Baradat, M., Delous, G., Ollitrault, M., Azam, D., Caquet, T., and Lagadic, L. (2009). Effects of Diquat and Fomesafen Applied Alone and in Combination with a Nonylphenol Polyethoxylate Adjuvant on Lemna minor in Aquatic Indoor Microcosms. *Ecotoxicol.Environ.Saf.* 72: 802-810.

EcoReference No.: 112666

Chemical of Concern: FSF,DQTBr; Habitat: A; Effect Codes: GRO,PHY; Code: LITE EVAL CODED(DQTBr),OK(FSF).

Greenlee, A. R., Ellis, T. M., and Berg, R. L. (2004). Low-Dose Agrochemicals and Lawn-Care Pesticides Induce Developmental Toxicity in Murine Preimplantation Embryos. *Environ.Health Perspect.* 112: 703-709.

EcoReference No.: 82041

Chemical of Concern: PDM,CPY,DMB,PMR,MZB,24D,MCP1,DDT,ATZ,MTL,PDM,TBO,CTN,NHN;
Habitat: T; Effect Codes: GRO,CEL; Code: LITE EVAL
CODED(CTN,MZB,MTL,MCP1,ATZ,CPY,24D,TBO,PDM,DQT,DMB,PMR,NHN,DDT),NO
COC(DEAC) .

Gupta, S., Husser, R. C., Geske, R. S., Welty, S. E., and Smith, C. V. (2000). Sex Differences in Diquat-Induced Hepatic Necrosis and DNA Fragmentation in Fischer 344 Rats. *Toxicol.Sci.* 54: 203-211.

EcoReference No.: 111859

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Gupta, S., Rogers, L. K., and Smith, C. V. (1994). Biliary Excretion of Lysosomal Enzymes, Iron, and Oxidized Protein in Fischer-344 and Sprague-Dawley Rats and the Effects of Diquat and Acetaminophen. *Toxicol.Appl.Pharmacol.* 125: 42-50 (doi: 10.1006/taap.1994.1047).

EcoReference No.: 110561

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(DQT).

Han, E. S., Muller, F. L., Perez, V. I., Qi, W., Liang, H., Xi, L., Fu, C., Doyle, E., Hickey, M., Cornell, J., Epstein, C. J., Roberts, L. J., Van Remmen, H., and Richardson, A. (2008). The In Vivo Gene Expression Signature of Oxidative Stress. *Physiol.Genom.* 34: 112-126.

EcoReference No.: 110911

Chemical of Concern: DQT; Habitat: T; Effect Codes: PHY,BCM,CEL; Code: LITE EVAL CODED(DQT).

Heath, R. G., Spann, J. W., Hill, E. F., and Kreitzer, J. F. (1972). Comparative Dietary Toxicities of Pesticides to Birds. *U.S.Bureau of Sport Fisheries and Wildlife.Special Scientific Report-Wildlife No.152* 57 p.

EcoReference No.: 35214

Chemical of Concern:

AZ,TMP,AND,AMTL,ATZ,PPX,Captan,CHL,CHD,TCF,24DXY,DDT,24DB,DDVP,DEM,DEZ,DBN,DC
F,DLD,DS,DU,CU,CPY,DMT,SZ,FNF,ES,EN,TXP,FNT,FNTH,AZ,HPT,PSM,HCCH,MLN,MCPB,MTA
S,MOM,MXC,MP,MRX,Nabam,Naled,OXC,PRN,PCP,PRT,PSM,PPHD,PCL,TFM,THM,PPG,CMPH,O
XD,DZ,PQT,PPX,DQTBr,TDC; Habitat: T; Effect Codes: MOR; Code: LITE EVAL
CODED(AZ,PRT,PPG,PSM,DS,CBL,DZ,ATZ,SZ,DMT,MLN,MP,Captan,Naled,CMPH,TMP,OXD,CPY,
EP,DU,DDVP,TCF,ES,FNT,DCF,24D,PQT,PPX,DQTBr,TDC).

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.

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EcoReference No.: 50181

Chemical of Concern:

24D,24DXY,ACP,ADC,AMSV,AMTL,AND,ARM,ATN,ATZ,AZ,BMC,BMN,BMY,Captan,CBF,CBL,CdCl,CHD,CMPH,CPY,CPYM,CrS,DBN,DCF,DCTP,DDT,DDVP,DEM,DFPM,DINO,DLD,DMB,DMT,DQBr,DS,DU,DZ,EN,EP,ES,ETN,FMP,FNF,FNT,FNTH,FTTCl,GYP,HCCH,HgCl₂,HPT,IFP,K₂Cr₂O₇,LNR,Maneb,MCB,MCPB,MDT,MLN,MLT,MOM,MP,MRX,MSMA,MTAS,MTM,MVP,MXC,Naled,Ni,OXD,Pb,PbN,PCB,PCL,PCP,PHSL,PMR,PPB,PPHD,PPN,PPX,PQT,PRN,PRT,PSM,PYN,RSM,RTN,SPS,STAR,SZ,TBO,TCF,TEPP,TFN,THM,TMP,TVMP,TVP,TXP,V,Zineb,Ziram,ZnP; Habitat: T; Effect Codes: MOR,BEH; Code: LITE EVAL
CODED(ACP,ADC,ARM,ATN,ATZ,AZ,BMC,BMY,Captan,CBF,CBL,CMPH,CPY,CPYM,DCF,DCTP,DDVP,DMB,DMT,DQBr,DS,DU,DZ,EP,ES,FMP,FNF,FNT,FTTCl,GYP,MCB,MDT,MLN,MLT,MOM,MP,MTAS,MTM,MVP,Naled,OXD,PCP,PMR,PPB,PPN,PPX,PQT,PRN,PRT,PSM,RSM,RTN,SZ,TBO,TCF,TEPP,TFN,Thiram,TMP,TVP,Ziram,24D),OK(ES,MVP,PPN,TEPP).

Hill, E. F., Heath, R. G., Spann, J. W., and Williams, J. D. (1975). Lethal Dietary Toxicities of Environmental Pollutants to Birds. *U.S.Fish and Wildl.Serv.No.191, Special Scientific Report-Wildlife* 61 p.

EcoReference No.: 35243

Chemical of Concern:

24DXY,TMP,ADC,AMTL,AND,ATZ,Captan,CBF,CBL,Cd,Cr,DDT,DLD,DMT,DS,DU,DZ,EP,ES,ETN,FMP,FNT,HCCH,Hg,HPT,MCPB,MLN,MP,MRX,MTAS,MXC,Naled,Pb,PCB,PCL,PCP,PQT,PRN,PRT,PYN,RSM,RTN,SZ,TFM,THM,TVP,TXP,Zn,ZnP,As,AZ,OXD,PSM,LNR,PPG,CYP,PEM,MOM,DDVP,PHTH,DBN,CMPH,TVPM,DCTP,CPY,TCF,DCF,PPX,DQBr,TDC; Habitat: T; Effect Codes: MOR; Code: LITE EVAL
CODED(AZ,PPG,LNR,PSM,DS,24DXY,CPY,MP,Naled,Captan,MLN,OXD,MTAS,CBL,DZ,ATZ,CBF,ADC,MOM,DMT,SZ,ZnP,RTN,RSM,MCPB,PCP,PRT,CMPH,TVPM,TMP,DCTP,EP,FMP,DU,DDVP,TCF,ES,FNT,DCF,PQT,PPX,DQBr,TDC).

Hinton, M. J. and Eversole, A. G. (1979). Toxicity of Ten Chemicals Commonly Used in Aquaculture to the Black Eel Stage of the American Eel. *Proc.World Maricul.Soc.* 10: 554-560.

EcoReference No.: 592

Chemical of Concern: Cu,CuS,RTN,ATM,FML,KPM,NaCl,TCF,DQBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RTN,CuS,OW-TRV-Cu,ATM,TCF,NaCl,DQBr).

Hinton, M. J. and Eversole, A. G. (1978). Toxicity of Ten Commonly Used Chemicals to American Eels. *Proc.Annu.Conf.Southeast.Assoc.Fish Wildl.Agency* 32: 599-604.

EcoReference No.: 593

Chemical of Concern: Cu,CuS,RTN,ATM,FML,NaCl,TCF,DQBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(RTN,CuS,OW-TRV-Cu,ATM,TCF,NaCl,DQBr).

Hofstra, D. E., Clayton, J. S., and Getsinger, K. D. (2001). Evaluation of Selected Herbicides for the Control of Exotic Submerged Weeds in New Zealand: II. The Effects of Turbidity on Diquat and Endothall Efficacy. *J.Aquat.Plant Manag.* 39: 25-27.

EcoReference No.: 71359

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

Homer, M. L. (1989). The Impact of Habitat Loss on Freshwater Fish Populations. *Ph.D Thesis, University of South Carolina, Columbia, SC*: 184 p. (UMI# 8828028).

EcoReference No.: 111594

Chemical of Concern: DQBr; Habitat: A; Effect Codes: POP,BEH; Code: LITE EVAL

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CODED(DQTBr).

Hong, W. H., Meier, P. G., and Deininger, R. A. (1988). Estimation of a Single Probit Line from Multiple Toxicity Test Data. *Aquat.Toxicol.* 12: 193-202.

EcoReference No.: 5018

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Hook, S. E., Skillman, A. D., Small, J. A., and Schultz, I. R. (2006). Gene Expression Patterns in Rainbow Trout, *Oncorhynchus mykiss*, Exposed to a Suite of Model Toxicants. *Aquat.Toxicol.* 77: 372-385.

EcoReference No.: 89822

Chemical of Concern: BAP,PAH,EED,TBL,Cr,DQTBr; Habitat: A; Effect Codes: ACC,MOR,CEL; Code: LITE EVAL CODED(TBL,EED,DQTBr),OK(Cr,BAP,PAH),NO COC(PYR).

Hudson, R. H., Tucker, R. K., and Haegele, M. A. (1984). Handbook of Toxicity of Pesticides to Wildlife. *Resour.Publ.No.153, Fish Wildl.Serv., 2nd Edition, U.S.D.I., Washington, DC* 90 p.

EcoReference No.: 50386

Chemical of Concern:

ACP,ACL,ACR,ADC,AND,ATN,AMTL,ANZ,ATZ,4AP,AZ,BFL,BTY,Captan,CBL,CBF,CHD,CPP,CQT
C,CPY,CPYM,CMPH,CZE,24D,DCNA,DDT,DDVP,DEF,DEM,DZ,DBN,DLN,DCF,DCTP,DFZ,DINO,
DLD,DMT,DQTBr,DS,DU,ES,EDT,EN,EP,ETN,FMP,FNT,FNTH,FMU,FO,Folpet,FNF,HPT,PSM,HCC
H,MLN,MDT,MCB,MOM,MTM,MTPN,MXC,MP,MVP,MRX,NaFA,NABAM,Naled,OXD,PMA,PNB,P
PHD,PPX,PQT,PRN,PCP,PNB,PRT,PCL,PSM,PYT,RSM,RTN,STAR,STCH,TBF,TCDD,TFM,T1,TMP,
TZL,TVP,TZL,THM,TXP,TCF,TFN,VCZ,ZnP,Zineb,PCB; Habitat: T; Effect Codes: MOR; Code:
LITE EVAL

CODED(ACL,ACR,ADC,ATN,BTY,Captan,CQTC,TBF,DBN,DLN,DCF,DFZ,DINO,DQTBr,CPYM,ES,
FNT,FO,MCB,MLN,MOM,MP,MVP,PQT,TCF,TFN,24D,CPY,DS,PSM,ATZ,DU,MDT,PRT,RTN,EP,D
Z,TMP,CMPH,DCTP,TVPM,FMP,MTM,ACP,Naled,DDVP,DMT,AZ,CBF,PPX,VCZ).

Hughes, J. S. (1973). Acute Toxicity of Thirty Chemicals to Striped Bass (*Morone saxatilis*).
*La.Dep.Wildl.Fish.*318-343-2417 15 p.(Used 963 As Reference).

EcoReference No.: 2012

Chemical of Concern:

24DXY,DU,MP,OXT,Cr,Cd,CuS,RTN,ZnCl₂,EPRN,FML,DLD,DQTBr,AND,CuCl,DBAC,Zn,TCF,NaCl;
Habitat: A; Effect Codes: MOR; Code: LITE EVAL
CODED(RTN,CuS,CuCl,OW-TRV-Cu,DBAC,MP,DU,ZnCl₂,OXT,TCF,NaCl,DQTBr).

Hughes, J. S. (1969). Toxicity of Some Chemicals to Striped Bass (*Roccus saxatilis*).
Proc.Annu.Conf.Southeast.Assoc.Game Fish Comm. 22: 230-234.

EcoReference No.: 59905

Chemical of Concern: CuCl,ZnCl₂,NaCl,FML,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE
EVAL CODED(ZnCl₂,NaCl,CuCl,DQTBr).

Humpherson-Jones, F. M. and Burchill, R. T. (1982). Chemical Suppression of the Sexual Stage of *Leptosphaeria*
maculans on Oil-Seed Rape and Turnip Seed Crop Straw. *Ann.Appl.Biol.* 100: 281-288.

EcoReference No.: 91944

Chemical of Concern: PAQT,CBD,BMY,THM,VCZ,TBA,PZM,FRM,IPD,CBX,DQTBr,DBAC; Habitat:
T; Effect Codes: POP; Code: LITE EVAL
CODED(PZM,PAQT,DQTBr),OK(THM),TARGET(VCZ,IPD).

Indyk, F. (1993). The Effect of Herbicides on the Effectivity of Hen Hatching. *Zool.Pol.* 36: 33-61.

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EcoReference No.: 71392

Chemical of Concern: LNR,SZ,PAQT,BT,DQTBr,PHMD,TBC,ATZ; Habitat: T; Effect Codes: MOR,REP; Code: LITE EVAL CODED(BT,DQTBr,SZ,LNR),OK(PAQT).

Johnson, C. R. and Gieke, P. A. (1977). The Effects of the Herbicide Diquat on *Gambusia affinis* and Some Associated Fauna in Freshwater Ponds. *Proc.Pap.Ann.Conf.Calif.Mosq.Vector Control Assoc.* 45: 59-60.

EcoReference No.: 7506

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Kam-Wing, L. and Furtado, J. I. (1977). The Chemical Control of *Salvinia molesta* (Mitchell) and Some Related Toxicological Studies. *Hydrobiologia* 56: 49-61.

EcoReference No.: 609

Chemical of Concern: PQT,DQTBr; Habitat: A; Code: LITE EVAL CODED(PQT,DQTBr).

Kashian, D. R. and Dodson, S. I. (2002). Effects of Common-Use Pesticides on Developmental and Reproductive Processes in *Daphnia*. *Toxicol.Ind.Health* 18: 225-235.

EcoReference No.: 93397

Chemical of Concern: TXP,PHTH,MBZ,MTL,24D,ACO,ACR,AMZ,CSF,CZE,DDT,DFZ,LNR,DQT;
Habitat: A; Effect Codes: MOR,GRO,REP; Code: LITE EVAL CODED(24D,LNR,ACR,AMZ,DFZ,DQT),OK(MTL).

Kevan, S. D. and Pearson, R. G. (1993). Toxicity of Diquat Pulse Exposure to Tropical Freshwater Shrimp (*Caridina nilotica*, Atyidae). *Bull.Environ.Contam.Toxicol.* 51: 564-567.

EcoReference No.: 8077

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Koschnick, T. J. (2005). Documentation, Characterization, and Proposed Mechanism of Diquat Resistance in *Landoltia punctata* (G. Meyer) D.H.Les and D.J.Crawford. *Ph.D.Thesis, Univ.of Florida,FL* 123 p. (UMI# 3192414).

EcoReference No.: 111593

Chemical of Concern: CuS,CuCl,Du,DQTBr; Habitat: A; Effect Codes: PHY,ACC; Code: LITE EVAL CODED(CuS,Du,DQTBr),NO ENDPOINT(CuCl).

Koschnick, T. J. and Haller, W. T. (2006). Effects of Copper Chelating Agents on Diquat Activity in Diquat Resistant *Landoltia*. *J.Aquat.Plant Manag.* 44: 125-132.

EcoReference No.: 111860

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

Koschnick, T. J., Haller, W. T., and Glasgow, L. (2006). Documentation of *Landoltia* (*Landoltia punctata*) Resistance to Diquat. *Weed Sci.* 54: 615-619.

EcoReference No.: 111124

Chemical of Concern: DQTBr,PAQT; Habitat: A; Effect Codes: POP,PHY; Code: LITE EVAL CODED(DQTBr),OK(PAQT).

Lam, H. F., Takezawa, J., Gupta, B. N., and Van Stee, E. W. (1980). A Comparison of the Effects of Paraquat and Diquat on Lung Compliance, Lung Volumes and Single Breath Diffusing Capacity in the Rat. *Toxicology* 18: 111-123.

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EcoReference No.: 110237

Chemical of Concern: DQT,PQT; Habitat: T; Effect Codes: PHY,GRO,CEL; Code: LITE EVAL CODED(DQT),OK(PQT).

Langeland, K. A., Hill, O. N., Koschnick, T. J., and Haller, W. T. (2002). Evaluation of a New Formulation of Reward Landscape and Aquatic Herbicide for Control of Duckweed, Waterhyacinth, Waterlettuce, and Hydrilla. *J.Aquat.Plant Manag.* 40: 51-53.

EcoReference No.: 77756

Chemical of Concern: Cu,DQTBr; Habitat: A; Effect Codes: POP,PHY; Code: LITE EVAL CODED(Cu,DQTBr).

Leung, T. S., Naqvi, S. M., and LeBlanc, C. (1983). Toxicities of Two Herbicides (Basagran, Diquat) and an Algicide (Cutrine-Plus) to Mosquitofish *Gambusia affinis*. *Environ.Pollut.Ser.A* 30: 153-160.

EcoReference No.: 10495

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

Liang, H., Van Remmen, H., Frohlich, V., Lechleiter, J., Richardson, A., and Ran, Q. (2007). Gpx4 Protects Mitochondrial ATP Generation Against Oxidative Damage. *Biochem.Biophys.Res.Comm.* 356: 893-898 (doi: 10.1016/j.bbrc.2007.03.045).

EcoReference No.: 110554

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(DQT).

Lii, C. K., Wang, S. T., and Chen, H. W. (1996). The Detection of S-Glutathionation of Hepatic Carbonic Anhydrase III in Rats Treated with Paraquat or Diquat. *Toxicol.Lett.* 84: 97-105.

EcoReference No.: 106111

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(PAQT,DQTBr).

Litchfield, M. H., Daniel, J. W., and Longshaw, S. (1973). The Tissue Distribution of the Bipyridylum Herbicides Diquat and Paraquat in Rats and Mice. *Toxicology* 1: 155-165.

EcoReference No.: 110594

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: ACC,PHY,MOR,GRO,BEH; Code: LITE EVAL CODED(DQTBr).

Lock, E. A. (1979). The Effect of Paraquat and Diquat on Renal Function in the Rat. *Toxicol.Appl.Pharmacol.* 48: 327-336.

EcoReference No.: 106112

Chemical of Concern: DQT,PAQT; Habitat: T; Effect Codes: CEL,PHY; Code: LITE EVAL CODED(PAQT,DQT).

Lock, E. A. and Ishmael, J. (1979). The Acute Toxic Effects of Paraquat and Diquat on the Rat Kidney. *Toxicol.Appl.Pharmacol.* 50: 67-76.

EcoReference No.: 106113

Chemical of Concern: PAQT,HgCl₂,DQT; Habitat: T; Effect Codes: BCM,PHY; Code: LITE EVAL CODED(DQT),OK(PAQT,HgCl₂).

Lozano, R. B. and Pratt, J. R. (1993). Interaction of Toxicants and Communities: The Role of Nutrients.

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Environ.Toxicol.Chem. 13: 361-368.

EcoReference No.: 111221

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: BCM; Code: LITE EVAL CODED(DQTBr).

Madge, D. S. (1982). Effects of the Bipyridilium Herbicides, Diquat and Paraquat, on In Vivo Hexose Absorption and Fluid Transfer in Adult Mice. *Gen.Pharmacol.* 13: 139-145.

EcoReference No.: 105439

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: PHY; Code: LITE EVAL CODED(PQT,DQTBr).

Madhu, C., Gregus, Z., and Klaassen, C. D. (1992). Marked Interanimal Differences in Susceptibility of Sprague-Dawley Rats to Diquat-Induced Oxidative Stress in the Liver: Correlation with Hepatic Uptake of Diquat. *J.Pharmacol.Exp.Ther.* 263: 1003-1008.

EcoReference No.: 110961

Chemical of Concern: DQT; Habitat: T; Effect Codes: PHY,ACC; Code: LITE EVAL CODED(DQT).

Madsen, J. D., Owens, C. S., and Getsinger, K. D. (1998). Evaluation of Four Herbicides for Management of American Frogbit (*Limnobium spongia*). *J.Aquat.Plant Manag.* 36: 148-150.

EcoReference No.: 97638

Chemical of Concern: GYPI,24D,DQTBR,TPRT; Habitat: A; Effect Codes: GRO; Code: LITE EVAL CODED(GYPI,24D,DQTBR,TPRT).

Mais, D. E., Lahr, P. D., and Bosin, T. R. (1984). Hyperoxia and Paraquat Alter the Kinetics of Platelet Serotonin Uptake. *Toxicol.Appl.Pharmacol.* 76: 1-8.

EcoReference No.: 106115

Chemical of Concern: ANTU,PQT,DQTBr; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(DQTBr),OK(PQT,DQTBr).

Marking, L. L., Rach, J. J., and Schreier, T. M. (1994). Evaluation of Antifungal Agents for Fish Culture. *Prog.Fish-Cult.* 56: 225-231.

EcoReference No.: 16533

Chemical of Concern: DQTBr,24DXYEE,HOX,IODN,GLU,KPM,NaCl,ACAC,EPXA; Habitat: A; Effect Codes: POP,PHY,MOR; Code: LITE EVAL CODED(IODN,ACAC,HOX,EPXA,NaCl,DQTBr).

Meier, P. G., Hong,W.H., and Deininger, R. A. (1987). Application of Tracer Techniques to Continuous-Flow Toxicity Testing. *Water Res.* 21: 1259-1264.

EcoReference No.: 112667

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

Melendez, A. L., Kepner, R. L. Jr., Balczon, J. M., and Pratt, J. R. (1993). Effects of Diquat on Freshwater Microbial Communities. *Arch.Environ.Contam.Toxicol.* 25: 95-101.

EcoReference No.: 6792

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Minakata, K., Kawai, K., Horio, F., Nozawa, H., Watanabe-Suzuki, K., and Suzuki, O. (2002). Diquat Markedly

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Changes Iron and Copper Concentrations in Tissues and Plasma of ODS Rats. *Jpn.J.Forensic Toxicol.* 20: 277-283.

EcoReference No.: 111935

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,GRO,BEH,ACC; Code: LITE EVAL CODED(DQTBr).

Minakata, K., Suzuki, O., Oh-ishi, S., Hayashi, I., Saito, S., and Harada, N. (1995). Diquat Increases Cysteine Proteinase Inhibitors Greatly in Rat Plasma and Tissues. *Arch.Toxicol.* 69: 318-321.

EcoReference No.: 106629

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: GRO,BCM,PHY,BEH; Code: LITE EVAL CODED(DQTBr).

Minakata, K., Suzuki, O., Suzuki, M., Saito, S. I., and Harada, N. (1999). Tissue Damage by Diquat Revealed by Ascorbate Free Radical Formation. *Jpn.J.Forensic Toxicol.* 17: 187-194.

EcoReference No.: 111087

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BEH,BCM,ACC; Code: LITE EVAL CODED(DQTBr).

Naqvi, S. M. and Hawkins, R. H. (1989). Responses and LC50 Values for Selected Microcrustaceans Exposed to Spartan, Malathion, Sonar, Weedtrine-D, and Oust Pesticides. *Bull.EnvIRON.Contam.Toxicol.* 43: 386-393.

EcoReference No.: 786

Chemical of Concern: MLN,SMM,PMR,ES,FDE,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(PMR,SMM,MLN,ES,FDE,DQTBr).

Naqvi, S. M., Leung, T. S., and Naqvi, N. Z. (1980). Toxicities of Paraquat and Diquat Herbicides to Freshwater Copepods (*Diaptomus* sp. and *Eucyclops* sp.). *Bull.EnvIRON.Contam.Toxicol.* 25: 918-920.

EcoReference No.: 5329

Chemical of Concern: PQT,DQTBr; Habitat: A; Code: LITE EVAL CODED(PQT,DQTBr).

Nelson, L. S., Owens, C. S., and Getsinger, K. D. (2003). Response of Wild Rice to Selected Aquatic Herbicides. *Technical Report ERDC/EL TR-03-14, U.S.Army Eng.Res.Develop.Ctr.,Vicksburg, MS* 13 p. (NTIS/02926136).

EcoReference No.: 107837

Chemical of Concern: TMP,FDE,EDT,DQTBr,24D; Habitat: A; Effect Codes: GRO,POP; Code: LITE EVAL CODED(FDE,EDT,24D,DQTBr).

Netherland, M. D., Skogerboe, J. D., Owens, C. S., and Madsen, J. D. (2000). Influence of Water Temperature on the Efficacy of Diquat and Endothall Versus Curlyleaf Pondweed. *J.Aquat.Plant Manag.* 38: 25-32.

EcoReference No.: 71379

Chemical of Concern: EDT,DQTBr; Habitat: A; Effect Codes: BCM,POP,GRO; Code: LITE EVAL CODED(DQTBr).

Nicholson, S. A. and Clerman, R. J. (1974). Toxicity of Diquat to the Crustacean Amphipod *Hyaella* From Chautauqua Lake. *Environ.Lett.* 7: 215-227.

EcoReference No.: 6286

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Nishiuchi, Y. (1980). Toxicity of Formulated Pesticides to Fresh Water Organisms. LXXIV. *The Aquiculture*

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/Suisan Zoshoku 28: 107-112 (JPN).

EcoReference No.: 6594

Chemical of Concern: 24DXY,ACR,DBN,PQT,Captan,DQTBr; Habitat: A; Effect Codes: MOR;
Code: LITE EVAL CODED(24DXY,Captan,ACR,PQT,DQTBr).

O'Brien, M. C. and Prendeville, G. N. (1978). A Rapid Sensitive Bioassay for Determination of Paraquat and Diquat in Water. *Weed Res.* 18: 301-303.

EcoReference No.: 110959

Chemical of Concern: DQT,PAQT; Habitat: A; Effect Codes: BCM,PHY; Code: LITE EVAL
CODED(DQT),OK(PAQT).

Parsons, J. K., Hamel, K. S., and Wierenga, R. (2007). The Impact of Diquat on Macrophytes and Water Quality in Battle Ground Lake, Washington. *J.Aquat.Plant Manag.* 45: 35-39.

EcoReference No.: 111062

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: GRO,ACC; Code: LITE EVAL
CODED(DQTBr).

Pasi, A., Embree, J. W. Jr., Eisenlord, G. H., and Hine, C. H. (1974). Assessment of the Mutagenic Properties of Diquat and Paraquat in the Murine Dominant Lethal Test. *Mutat.Res.* 26: 171-175.

EcoReference No.: 104684

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: REP,MOR; Code: LITE EVAL
CODED(DQTBr),OK(PQT).

Paul, E. A. and Simonin, H. A. (2007). Toxicity of Diquat and Endothall to Eastern Spiny Softshell Turtles (*Apalone spinifer spinifer*). *J.Aquat.Plant Manag.* 45: 52-54.

EcoReference No.: 110925

Chemical of Concern: EDT,DQT; Habitat: A; Effect Codes: MOR,BEH; Code: LITE EVAL
CODED(DQT).

Paul, E. A., Simonin, H. A., Symula, J., and Bauer, R. W. (1994). The Toxicity of Diquat, Endothall, and Fluridone to the Early Life Stages of Fish. *J.Freshw.Ecol.* 9: 229-239 (Author Communication Used).

EcoReference No.: 14903

Chemical of Concern: EDT,FDE,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL
CODED(FDE,DQTBr).

Peterson, H. G., Boutin, C., Freemark, K. E., and Martin, P. A. (1997). Toxicity of Hexazinone and Diquat to Green Algae, Diatoms, Cyanobacteria and Duckweed. *Aquat.Toxicol.* 39: 111-134.

EcoReference No.: 18372

Chemical of Concern: HXZ,DQTBr; Habitat: A; Effect Codes: POP.PHY; Code: LITE EVAL
CODED(HXZ,DQTBr).

Petry, T. W., Wolfgang, G. H. I., Jolly, R. A., Ochoa, R., and Donarski, W. J. (1992). Antioxidant-Dependent Inhibition of Diquat-Induced Toxicity In Vivo. *Toxicology* 74: 33, 43 (doi: 10.1016/0300-483X(92)90041-C).

EcoReference No.: 111532

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: CEL,BCM; Code: LITE EVAL
CODED(DQTBr).

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Phlips, E. J., Hansen, P., and Velardi, T. (1992). Effect of the Herbicide Diquat on the Growth of Microalgae and Cyanobacteria. *Bull.Environ.Contam.Toxicol.* 49: 750-756 .

EcoReference No.: 10895

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Poovey, A. G. and Getsinger, K. D. (2002). Impacts of Inorganic Turbidity on Diquat Efficacy Against *Egeria densa*. *J.Aquat.Plant Manag.* 40: 6-10.

EcoReference No.: 111224

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: BCM,POP; Code: LITE EVAL CODED(DQTBr).

Pratt, J. R., Bowers, N. J., and Cairns, J. Jr. (1990). Effect of Sediment on Estimates of Diquat Toxicity in Laboratory Microcosms. *Water Res.* 24: 51-57.

EcoReference No.: 10176

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Ran, Q., Liang, H., Gu, M., Qi, W., Walter, C. A., Roberts, L. J., Herman, B., Richardson, A., and Van Remmen, H. (2004). Transgenic Mice Overexpressing Glutathione Peroxidase 4 are Protected Against Oxidative Stress-Induced Apoptosis. *J.Biol.Chem.* 279: 55137-55146.

EcoReference No.: 111226

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Rawlings, J. M., Foster, J. R., and Heylings, J. R. (1992). Diquat-Induced Intestinal Secretion in the Anaesthetized Rat. *Hum.Exp.Toxicol.* 11: 524-529.

EcoReference No.: 79015

Chemical of Concern: NaBr,DQTBr; Habitat: T; Effect Codes: CEL,PHY; Code: LITE EVAL CODED(DQTBr),NO CONTROL,NO ENDPOINT(NaBr).

Reif, D. W., Beales, I., Thomas, C. E., and Aust, S. D. (1988). Effect of Diquat on the Distribution of Iron in Rat Liver. *Toxicol.Appl.Pharmacol.* 93: 506-510.

EcoReference No.: 111227

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(DQTBr).

Rogers, L. K., Bates, C. M., Welty, S. E., and Smith, C. V. (2006). Diquat Induces Renal Proximal Tubule Injury in Glutathione Reductase-Deficient Mice. *Toxicol.Appl.Pharmacol.* 217: 289-298.

EcoReference No.: 111229

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Rogers, Lynette K., Gupta, Sanjiv, Welty, Stephen E., Hansen, Thomas N., and Smith, Charles V. (2002). Nuclear and Nucleolar Glutathione Reductase, Peroxidase, and Transferase Activities in Livers of Male and Female Fischer-344 Rats. *Toxicol.Sci.* 69: 279-285.

EcoReference No.: 111228

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

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Roshon, R. D. (1997). A Toxicity Test for the Effects of Chemicals on the Non-target Submersed Aquatic Macrophyte, *Myriophyllum sibiricum* Komarov. *Ph.D.Thesis, Univ.of Guelph, Canada* 464 p. (Publ in Part as 60097).

EcoReference No.: 74985

Chemical of Concern:

FeEDTA,PL,ZnCl₂,TPR,24D,ATZ,DQTBr,FDE,GYP,HXZ,MTL,GYP,GYPI,BNZ,ETHN,MOL;

Habitat: A; Effect Codes: GRO,BCM,CEL; Code: LITE EVAL

CODED(MTL,ATZ,HXZ,24D,GYP,GYPI,ZnCl₂,FDE,TPR,DQTBr).

Sanchez, W., Palluel, O., Lagadic, L., Ait-Aissa, S., and Porcher, J. M. (2006). Biochemical Effects of Nonylphenol Polyethoxylate Adjuvant, Diquat Herbicide and Their Mixture on the Three-Spined Stickleback (*Gasterosteus aculeatus* L.). *Mar.Environ.Res.* 62: S29-S33.

EcoReference No.: 92796

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: BCM; Code: LITE EVAL

CODED(DQTBr).

Schaffer, J. D. and Sebetich, M. J. (2004). Effects of Aquatic Herbicides on Primary Productivity of Phytoplankton in the Laboratory. *Bull.Environ.Contam.Toxicol.* 72: 1032-1037.

EcoReference No.: 75182

Chemical of Concern: GYP,CuS,DQTBr; Habitat: A; Effect Codes: SYS; Code: LITE EVAL

CODED(CuS,GYP,DQTBr).

Schrader, K. K., De Regt, M. Q., Tidwell, P. D., Tucker, C. S., and Duke, S. O. (1998). Compounds with Selective Toxicity Towards the Off-Flavor Metabolite-Producing Cyanobacterium *Oscillatoria* cf. *chalybea*. *Aquaculture* 163: 85-99.

EcoReference No.: 69879

Chemical of Concern:

PAQT,ACF,ATZ,DU,FMU,NFZ,IMQ,DFP,HFP,CLT,BMN,DBN,DQTBr,EDT,FDE,GYP,SMU,IXB,SXD

,DFQ; Habitat: A; Effect Codes: POP; Code: LITE EVAL

CODED(ATZ,SXD,DU,GYP,NFZ,IXB,CLT,PAQT,DQTBr,FDE,DFQ).

Selypes, A., Nagymajtenyi, L., and Berencsi, G. (1980). Mutagenic and Embryotoxic Effects of Paraquat and Diquat. *Bull.Environ.Contam.Toxicol.* 25: 513-517.

EcoReference No.: 104790

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: CEL,GRO,MOR; Code: LITE

EVAL CODED(PAQT,DQTBr).

Sewalk, C. J., Brewer, G. L., and Hoffman, D. J. (2001). Effects of Diquat, an Aquatic Herbicide, on the Development of Mallard Embryos. *J.Toxicol.Environ.Health A* 62: 33-45.

EcoReference No.: 64297

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,MOR,GRO; Code: LITE EVAL

CODED(DQTBr).

Shealy, M. H. Jr. (1972). Limnological Effects of the Aquatic Herbicide Diquat Dibromide on Small Pools Stocked with *Anacharis* and Largemouth Bass. *M.S.Thesis, Cornell University, Ithaca, NY* 141 p.

EcoReference No.: 16647

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: POP,GRO,MOR; Code: LITE EVAL

CODED(DQTBr),NO COC(CBL).

June 2010 ECOTOX run

Shu, H. P. (1977). Mechanisms of Paraquat Toxicity Re-Examined. *Ph.D.Thesis, Univ.of California, Berkeley, CA* 116 p.

EcoReference No.: 105256

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: ACC,BCM,MOR; Code: LITE EVAL CODED(DQTBr),OK(PQT).

Simonin, H. A. and Skea, J. C. (1977). Toxicity of Diquat and Cutrine to Fingerling Brown Trout. *N.Y.Fish Game J.* 24: 37-45.

EcoReference No.: 7256

Chemical of Concern: DQTBr; Habitat: A; Code: LITE EVAL CODED(DQTBr).

Skogerboe, J. G., Getsinger, K. D., and Glomski, L. A. M. (2006). Efficacy of Diquat on Submersed Plants Treated Under Simulated Flowing Water Conditions. *J.Aquat.Plant Manag.* 44: 122-125.

EcoReference No.: 111230

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: ACC,POP; Code: LITE EVAL CODED(DQTBr).

Smith, C. V. (1987). Effect of BCNU Pretreatment on Diquat-Induced Oxidant Stress and Hepatotoxicity. *Biochem.Biophys.Res.Comm.* 144: 415, 421 (doi: 10.1016/S0006-291X(87)80526-0).

EcoReference No.: 111059

Chemical of Concern: DQT; Habitat: T; Effect Codes: MOR,BCM; Code: LITE EVAL CODED(DQT).

Sobti, R. C., Gill, R. K., and Mannan, M. A. (1987). Bipyridylum Herbicide - Diquat: a Clastogen. *CIS (Chromosome Inf.Serv.)* 42 : 15-17.

EcoReference No.: 111083

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: CEL,GRO; Code: LITE EVAL CODED(DQTBr).

Spalding, D. J. M., Mitchell, J. R., Jaeschke, H., and Smith, C. V. (1989). Diquat Hepatotoxicity in the Fischer-344 Rat: The Role of Covalent Binding to Tissue Proteins and Lipids. *Toxicol.Appl.Pharmacol.* 101: 319, 327 (doi: 10.1016/0041-008X(89)90280-9).

EcoReference No.: 110552

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: ACC,BCM; Code: LITE EVAL CODED(DQTBr).

Sprecher, S. L., Netherland, M. D., and Stewart, A. B. (1998). Phytoene and Carotene Response of Aquatic Plants to Fluridone Under Laboratory Conditions. *J.Aquat.Plant Manag.* 36: 111-120.

EcoReference No.: 108049

Chemical of Concern: Cu,24D,DQT,FDE,TPR,EDTK,EDT; Habitat: A; Effect Codes: BCM,GRO; Code: LITE EVAL CODED(DQT,FDE).

St.Laurent, D., Blaise, C., MacQuarrie, P., Scroggins, R., and Trottier, B. (1992). Comparative Assessment of Herbicide Phytotoxicity to *Selenastrum capricornutum* Using Microplate and Flask Bioassay Procedures. *Environ.Toxicol.Water Qual.* 7: 35-48.

EcoReference No.: 45196

Chemical of Concern: CuS,HXZ,MTL,GYP,24DXY,BMN,ZnCl2,CZE,DQTBr,PL,PCL,IMB,Cr; Habitat: A; Effect Codes: GRO; Code: LITE EVAL

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CODED(GYP,24DXY,MTL,OW-TRV-Cu,HXZ,ZnCl2,DQTBr).

Sund, K. A. and Nomura, N. (1963). Laboratory Evaluation of Several Herbicides. *Weed Res.* 3: 35-43.

EcoReference No.: 42840

Chemical of Concern:

PNB,SZ,ATZ,DU,24DXY,DBN,DMB,LNR,PMT,AMTL,CPP,MLH,PL,NaCLO,PCP,EPTC,2CP,4NP,AM TR,PCP,DLPCP,DL,NH,DQTBr; Habitat: T; Effect Codes: GRO,REP,MOR; Code: LITE EVAL CODED(EPTC,24DXY,ATZ,DMB,PCP,DU,MLH,DQTBr),TARGET(SZ,DMB,PCB),NO SPECIES(PCB),NO ENDPOINT(LNR,PMT).

Swader, J. A. (1978). Diquat Enhancement of Cupric Ion Toxicity. *Pestic.Biochem.Physiol.* 9: 140, 147 (doi: 10.1016/0048-3575(78)90074-3).

EcoReference No.: 111349

Chemical of Concern: DQT,CuS; Habitat: A; Effect Codes: PHY,GRO; Code: LITE EVAL CODED(DQT,CuS).

Todorova, S. I., Coderre, D., Duchesne, R. M., and Cote, J. C. (1998). Compatibility of *Beauveria bassiana* with Selected Fungicides and Herbicides. *Environ.Entomol.* 27: 427-433.

EcoReference No.: 97417

Chemical of Concern: GFSNH,CTN,Maneb,MZB,TPM,DQTBr,Zineb,MLX; Habitat: T; Effect Codes: MOR,GRO,POP; Code: LITE EVAL CODED(DQTBr,GFSNH),OK(CTN,Maneb,MZB),NO MIXTURE(MLX).

Tremblay, L. A. (2004). Biomarkers in Eel to Evaluate Effects of Diquat in a Christchurch River. *Australas.J.Ecotoxicol.* 10: 53-56.

EcoReference No.: 111085

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

Tsokos-Kuhn, J. O. (1989). Evidence In Vivo for Elevation of Intracellular Free Ca²⁺ in the Liver After Diquat, Acetaminophen, and CCl₄. *Biochem.Pharmacol.* 38: 3061, 3065 (doi: 10.1016/0006-2952(89)90016-6).

EcoReference No.: 112011

Chemical of Concern: ATP,DQTBr,CAD; Habitat: T; Effect Codes: BCM; Code: LITE EVAL CODED(DQTBr).

Vaishampayan, A. (1985). Mutagenicity of Bipyridylum Salts in a N₂-Fixing Cyanobacterium. *Microbios* 43: 53-65.

EcoReference No.: 104798

Chemical of Concern: PAQT,DQT; Habitat: A; Effect Codes: GRO,CEL; Code: LITE EVAL CODED(PAQT,DQT).

Van, T. K., Steward, K. K., and Conant, R. D. Jr. (1987). Responses of Monoecious and Dioecious Hydrilla (*Hydrilla verticillata*) to Various Concentrations and Exposures of Diquat. *Weed Sci.* 35: 247-252.

EcoReference No.: 17570

Chemical of Concern: DQT; Habitat: A; Effect Codes: ACC,PHY,GRO; Code: LITE EVAL CODED(DQT).

Vulimiri, S. V., Gupta, S., Smith, C. V., Moorthy, B., and Randerath, K. (1995). Rapid Decreases in Indigenous Covalent DNA Modifications (I-Compounds) of Male Fischer-344 Rat Liver DNA by Diquat Treatment.

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Chem.-Biol.Interact. 95: 1-16.

EcoReference No.: 111218

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL; Code: LITE EVAL CODED(DQT).

Williams, E. H., Mather, E. L., and Carter, S. M. (1984). Toxicity of the Herbicides Endothall and Diquat to Benthic Crustacea. *Bull.Environ.Contam.Toxicol.* 33: 418-422 .

EcoReference No.: 10576

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

Witschi, H. and Haschek, W. (1978). Some Problems in Correlating Molecular Mechanisms and Cell Damage. *In: Prepr.Pap., Natl.Meet. - Am.Chem.Soc., Div.Environ.Chem.* 18: 70-71.

EcoReference No.: 110351

Chemical of Concern: PAQT,DQT; Habitat: T; Effect Codes: ACC,CEL,BCM; Code: LITE EVAL CODED(DQT),OK(PAQT).

Xie, L., Thrippleton, K., Irwin, M. A., Siemering, G. S., Mekebri, A., Crane, D., Berry, K., and Schlenk, D. (2005). Evaluation of Estrogenic Activities of Aquatic Herbicides and Surfactants Using an Rainbow Trout Vitellogenin Assay. *Toxicol.Sci.* 87: 391-398.

EcoReference No.: 80643

Chemical of Concern: DQTBr,GYP,DMDP,EED,NYP,TPRT; Habitat: A; Effect Codes: PHY,BCM; Code: LITE EVAL CODED(DMDP,GYP,DQTBr,TPRT),NO MIXTURE(EED,NYP).

Yadava, N. K., Pahuja, S. S., and Bhatnagar, A. (1993). Toxicity of Herbicides on Fingerlings (*Labeo rohita* Hamilton) and Weeds in Pond. *In: Proc.Int.Symp.Indian Soc.of Weed Science, Nov.18-20, Hisar, India* 3: 250-253.

EcoReference No.: 16007

Chemical of Concern: SZ,24DXY,MSMA,DQTBr; Habitat: A; Effect Codes: MOR,BEH,SYS; Code: LITE EVAL CODED(24DXY,SZ,DQTBr),OK(MSMA).

Younes, M., Cornelius, S., and Siegers, C. P. (1985). Fe²⁺-Supported In Vivo Lipid Peroxidation Induced by Compounds Undergoing Redox Cycling. *Chem.-Biol.Interact.* 54: 97-103.

EcoReference No.: 104712

Chemical of Concern: DQT,PAQT,FeS₇H; Habitat: T; Effect Codes: PHY; Code: LITE EVAL CODED(DQT),OK(PAQT).

Zeman, M., Herichova, I., Navarova, J., Gressnerova, S., and Skrobánek, P. (2005). Melatonin Interacts with Effects of the Herbicide Diquat on Selected Physiological Traits During Ontogeny of Japanese Quail. *Biologia (Bratislava)* 60: 61-64.

EcoReference No.: 111611

Chemical of Concern: DQT; Habitat: T; Effect Codes: GRO,MOR,REP,BCM; Code: LITE EVAL CODED(DQT).

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Papers that Were Excluded

Excluded

- Cause-Specific Mortality Among Employees of the Chevron Chemical Company Facility at Richmond With Cover Letter Dated 020884. *Epa/ots; doc #fyi-ax-0284-0295*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Drinking Water Criteria Document for Diquat. *Govt reports announcements & index (gra&i), issue 16, 2092*.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- 1992). Mass Spectrometry in Environmental Organic Analysis. *Anal chim acta* 263: 1-19.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS .
- Report of the Food Quality Protection Act (Fqpa) Tolerance Reassessment Progress and Risk Management Decision (Tred) for Diquat Dibromide. *Govt reports announcements & index (gra&i), issue 08, 2003*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Reregistration Eligibility Decision (Red): Diquat Dibromide. *Govt reports announcements & index (gra&i), issue 24, 2095*.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Abou-Donia, M. B., Charles, J. M., and Menzel, D. B. (Uptake and Metabolism of Pesticides by the Isolated Perfused Rat Lung. *Pharmacologist* 18(2): 247; 1976.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Abou-Donia, M. B. and Komeil, A. A. (Sequential Thin-Layer Chromatography of Paraquat and Related Compounds. *J. Chromatogr.* 152(2): 585-588 1978 (10 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS .
- Abuelo, J. G. (1990). Renal Failure Caused by Chemicals Foods Plants Animal Venoms and Misuse of Drugs an Overview. *Arch intern med* 150: 505-510.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH .
- Adams, J. R., Nusrath, M., and Bryant, D. G. (Oral Mucosal Response to Exposure to Diquat: a Rare Occupational Injury. *Br j oral maxillofac surg.* 2008, oct; 46(7):601-2. [The british journal of oral & maxillofacial surgery]: *Br J Oral Maxillofac Surg*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ahmed Femm (Environmental Genetics: a Model to Investigate Pollutants Producing Genetic Damage. *Diss. Abstr. Int. B* 36(8): 3737; 1976.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Ainsworth, C. C., Frederickson, J. K., and Smith, S. C. (1993). Effect of Sorption on the Degradation of Aromatic Acids and Bases. *Sssa special publication* 0: 125-144.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Akerblom, M. (Pesticide Residue Analysis With Special Reference to Ion Pairing Techniques. *Akerblom, m. Pesticide residue analysis with special reference to ion pairing techniques. Pagination varies national laboratory for agricultural chemistry: uppsala, sweden; (dist. By swedish university of agricultural sciences department of chemistry: uppsala, sweden). Illus. Paper. Isbn 91-576-4292-3; 0 (0). 1990. Pagination*

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varies.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Akerboom, T. and Sies, H. (1990). Glutathione Transport and Its Significance in Oxidative Stress. *Vina, j. (Ed.). Glutathione: metabolism and physiological functions. Xiii+378p. Crc press, inc.: Boca raton, florida, usa. Illus. Isbn 0-8493-3274-5. 0: 45-56.*

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

Albert, A. (Xenobiosis Foods Drugs and Poisons in the Human Body. *Albert, a. Xenobiosis: foods, drugs and poisons in the human body. X+367p. Chapman and hall: new york, new york, usa; london, england, uk. Illus. Isbn 0-412-28810-9(paper); isbn 0-412-28800-1(cloth).; 0 (0). 1987. X+367p.*

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

Allen, S. E., Parkinson, J. A., and Rowland, A. P. (1989). Pollutants. *Allen, s. E. (Ed.). Chemical analysis of ecological materials, second edition. Xii+368p. Blackwell scientific publications inc.: Cambridge, massachusetts, usa Oxford, england, uk. Illus. Isbn 0-632-01742-2.; 0: 201-239.*

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

Allwood, B. L., Kohnke, F. H., Stoddart, J. F., and Williams, D. J. (1985). A Macrobicyclic Receptor Molecule for the Diquat Dication. *Angew chem int ed engl 24: 581-584.*

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Allwood, B. L., Shahriari-Zavareh, H., Stoddart, J. F., and Williams, D. J. (1987). Complexation of Paraquat and Diquat by a Bis-M-Phenylene-32-Crown-10 Derivative. *J chem soc chem commun 0: 1058-1061.*

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Ambrus, A. (A Hazai Takarmenyok Nuevenyvedoszer-Maradek Vizsgalati Eredmenyei Az 1974 - 1978. Evi Idoszakban. [Results of the Examination of Hungarian Feedstuff Samples for Herbicidal Residues Between 1974 and 1978.]. *Magy. Allatorv. Lapja 35(3): 173-176 1980.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Ameno, K., Kinoshita, H., Ameno, S., Tanaka, N., Kubota, T., Tsujinaka, M., and Ijiri, I. (1997). Medico-Legal Implication of a Poisoning Case Due to Paraquat, Diquat, Mianserin and Flunitrazepam Ingestion. *Research and practice in forensic medicine 40: 109-113.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Ando, H., Minagawa, T., Sato, T., Abe, T., Nonaka, H., and Miyata, Y. (1987). Utilization of Its Insoluble Salts for Identification of Alkyldipyridylum Herbicide Paraquat and Diquat by Ir Spectra. *Eisei kagaku 33: 283-286.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Andreux, F. (1997). Soil Organic Matter. Interactions With Pollutants. *Comptes rendus de l'academie d'agriculture de france 83: 111-123.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Anon (1991). Official Plant Protection Agent List With a Plant Protection Device List of the Federal Institute for Plant Protection Vienna Austria Status as of October 31 1990. *Pflanzenschutz (vienna) 0: 1-78.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Anonymous (Fao Pesticides Residue Tolerances for Foodgrains. *Pesticides 9(2): 33-34; 1975.*

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

Anton, P., Theodorou, V., Bertrand, V., More, J., Fioramonti, J., and Bueno, L. (1997). Induction of a Mild Gastrointestinal Inflammation by Chronic Ingestion of a Food Contaminant in Rats. *Digestive disease week and the 97th annual meeting of the american gastroenterological association, washington, d.c., Usa, may*

June 2010 ECOTOX run

- 11-14, 1997. *Gastroenterology* 112: A923.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Anton, P., Theodorou, V., Fioramonti, J., and Bueno, L. (1999). Long Term Low Level Exposure to a Food Contaminant (Diquat) Induces Gastric Barohypersensitivity: Role of Mast Cells and Free Radicals. *Digestive disease week and the 100th annual meeting of the american gastroenterological association, orlando, florida, usa, may 16-19, 1999*. *ygastroenterology* 116: A953.
Chem Codes: Chemical of Concern: DQTBr,DQT Code: ABSTRACT.
- Arendt-Peter, S. and Tauchnitz, J. (1990). Diquat Reglone an Ideal Herbicide. *Hercynia* 27: 273-282.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Ariffin, M. M. and Anderson, R. A. (Lc/Ms/Ms Analysis of Quaternary Ammonium Drugs and Herbicides in Whole Blood. *J chromatogr b analyt technol biomed life sci.* 2006, oct 2; 842(2):91-7. [*Journal of chromatography. B, analytical technologies in the biomedical and life sciences*]: *J Chromatogr B Analyt Technol Biomed Life Sci.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Arishima, K., Shirai, M., Akahori, F., and Masaoka, T. (1998). Bipyridylum Herbicide and Ductus Arteriosus I. *Proceedings of the 1st international conference of asian society of toxicology, yokohama, japan, june 29-july 2, 1997. Journal of toxicological sciences* 23: 312.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- 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: DQTBr Code: REVIEW.
- Ashton, P. R., Slawin, A. Mz, Spencer, N., Stoddart, J. F., and Williams, D. J. (1987). Complex Formation Between Bis-P-Phenylene-3n Plus 4-Crown-N Ethers and the Paraquat and Diquat Dications. *J chem soc chem commun* 0: 1066-1069.
Chem Codes: Chemical of Concern: DQTBr,DQT Code: CHEM METHODS.
- Aust, S. D., Chignell, C. F., Bray, T. M., Kalyanaraman, B., and Mason, R. P. (1993). Free Radicals in Toxicology . *Toxicol appl pharmacol* 120: 168-178.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Awad, J. A., Scott, A. S., Roberts, L. J. II, and Burk, R. F. (1994). Selenium Deficiency and Glutathione-Modulating Agents Exacerbate Diquat Hepatotoxicity and Lipid Peroxidation in Fischer 344 Rats. *95th annual meeting of the american gastroenterological association, new orleans, louisiana, usa, may 15-18, 1994. Gastroenterology* 106: A861.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Bach, P. H. and Dennis, H. (Diagnosis of Acute Poisoning. *S. Afr. Med. J.* 51(26): 958 1977..
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Bahadir, M. and Pfister, G. (1990). Controlled Release Formulations of Pesticides. *Bahadir, m., P. Boeger, h. Buchenauer, m. Eto, m. A. Q. Khan, g. Pfister and g. Sandmann. Chemistry of plant protection, vol. 6. Controlled release, biochemical effects of pesticides, inhibition of plant pathogenic fungi. Ix+312p. Springer-verlag: berlin, west germany New york, new york, usa. Illus. Isbn 3-540-51316-7; isbn 0-387-51316-7.; 0: 1-64.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Baker, S., Doull, J., Finkelman, J., and Massoud, A. (1992). Methods to Assess Toxic Effects of Pesticides in Humans. *Tardiff, r. G. (Ed.). Scope (scientific committee on problems of the environment), no. 49. Methods to assess*

- adverse effects of pesticides on non-target organisms* Workshop, ceske budejovice, czechoslovakia, october 3-7, 1988. Xxvii+270p. John wiley and sons ltd.: Chichester, england, uk; new york, new york, usa. Illus. Isbn 0-471-93156-x.; 0: 38-63.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Banks, R. B., Cooke, R. T., Tabor, D. G., and Diproffio, R. A. (1986). Possible Involvement of Molybdenum Hydroxylases in **Pyridinium Herbicide Biotransformation**. *191st american chemical society national meeting, new york, n.y., Usa, apr. 13-18, 1986. Abstr pap am chem soc* 191: No pagination.
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.
- Baran, R. L. (Letter: Nail Damage Caused by Weed Killers and Insecticides. *Arch dermatol.* 1974, sep; 110(3):467. [Archives of dermatology]: *Arch Dermatol.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Baran, R. L. (Nail Damage Caused by Weed Killers and Insecticides. *Arch. Dermatol.* 110(3): 467 1974..
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Barcelo, D., Durand, G., and Vreeken, R. J. (1993). Determination of Quaternary Amine Pesticides by Thermospray Mass Spectrometry. *9th montreux symposium on liquid chromatography-mass spectrometry, supercritical fluid chromatography-mass spectrometry, capillary zone electrophoresis-mass spectrometry and tandem mass spectrometry, montreux, switzerland, november 4-6, 1992. J chromatogr* 647: 271-277.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Barcelo, D. and Hennion, M. C. (1997). Sampling of Polar Pesticides From Water Matrices. *Analytica chimica acta* 338: 3-18.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Barstad, J. A. B. (Pesticides and Heavy Metals as Food Contaminants. *Arch. Toxicol. (Spl1)*: 47-54 1978 (8 references).
Chem Codes: Chemical of Concern: DQTBr,DQT Code: FOOD.
- Bartha, R. (Pesticide Residues in Humus. *Asm news* 46(7): 356-360 1980 (22 references).
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Bartosz, G. (1997). Oxidative Stress in Plants. *Acta physiologiae plantarum* 19: 47-64.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Baud, F. J. and Blaisot, B. (1987). Toxicokinetics and Antidotes. *J pharm clin* 6: 403-412.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Beach, E. D., Fernandez-Cornejo, J., Huang, W. Y., and Uri, N. D. (1995). The Potential Risks of Groundwater and Surface Water Contamination by Agricultural Chemicals Used in Vegetable Production. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 30: 1295-1325.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Beavis, C., Simpson, P., Syme, J., and Ryan, C. (1991). Queensland Department of Primary Industries Information Series Qi91006. **Infopest Chemicals for the Protection of Field Crops Forage Crops and Pastures** 2nd Edition. Beavis, c., P. Simpson, j. Syme and c. Ryan. Queensland department of primary industries information series, qi91006. Infopest: chemicals for the protection of field crops, forage crops and pastures, 2nd edition. Vi+312p. Queensland department of primary industries: brisbane, queensland, australia. Paper. Isbn 0-7242-3985-5. 0: Vi+312p.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Beeson, D. R., Lewis, M. C., Powell, J. M., and Nimmo, D. R. (1998). Effect of Pollutants on Freshwater Organisms.

Water environment research 70: 921-931.

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

Beitz, H., Schmidt, H. H., Hoernicke, E., and Schmidt, H. (Communications From the Federal Biological Institute for Agriculture and Forestry Berlin-Dahlem No. 274. First Results of an Analysis of the Use of Plant Protection Products and Their Ecological Chemical and Toxicological Effects in the Former Gdr. *Beitz, h., H. H. Schmidt, e. Hoernicke and h. Schmidt. Mitteilungen aus der biologischen bundesanstalt fuer land- und forstwirtschaft berlin-dahlem, heft 274. Erste ergebnisse der analyse zur anwendung von pflanzenschutzmitteln und ihren oekologisch-chemischen und toxikologischen auswirkungen in der ehemaligen ddr; (communications from the federal biological institute for agriculture and forestry berlin-dahlem, no. 274. First results of an analysis of the use of plant protection products and their ecological, chemical and toxicological effects in the former gdr). 123p. Kommissionsverlag paul parey: berlin, germany. Illus. Paper. Isbn 3-489-27400-8.; 0 (0). 1991. 123p.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Benecke, G. (Automatic Evaluation of an Algal Bioassay-Inhibition of the Movement of a Blue-Green Algae (Phormidium Sp.) By the Herbicide Diquat. *Z. Wasser abwasserforsch. 10(6): 195-197 1977 (4 references).*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Benijts-Claus, C. and Persoone, G. (Toxicity of Three Herbicides in the Aquatic Ecosystem. *Trib. Cebedeau (cent. Belge etude doc. Eaux) 28(383): 340-347 1975..*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Bernier, D. and Jean, C. (1993). Effects of Haulm Removal by Temperature Range on the Quality of Potato Tubers. *85th annual meeting of the quebec society for the protection of plants and the 120th annual meeting of the entomological society of quebec, saint-georges de beauce, quebec, canada, october 13-14, 1993. Phytoprotection 74: 161-162.*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Bertolotti, S. G., Cosa, J. J., Gsponer, H. E., and Previtali, C. M. (1987). Charge Transfer Complexes of Diquat and Paraquat With Halide Anions. *Can j chem* 65: 2425-2427.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Bescol-Liversac, J., Paquelin, A., and Guillam, C. (Ultrastructural Study of a Renal Biopsy in a Patient Intoxicated by Paraquat. *J. Eur. Toxicol. 8(4): 236-246 1975..*

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Bhuyan, K. C., Bhuyan, D. K., Chiu, W., Malik, S., and Fridovich, I. (1991). Desferal-Manganese(III) in the **Therapy of Diquat-Induced Cataract in Rabbit**. *Arch biochem biophys* 288: 525-532.

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

Bhuyan, K. C., Chiu, W., Brodie, S. E., Friedman, A. H., Podos, S. M., and Bhuyan, D. K. (1989). Diquat-Induced Cataract in Rabbit Contribution of Retinal Degeneration Rd in the Pathogenesis. *Annual spring meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, april 30-may 5, 1989. Invest ophthalmol visual sci* 30: 484.

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

Bhuyan, K. C., Podos, S. M., and Bhuyan, D. K. (1988). Oxy Radicals in Triggering Diquat-Induced Cataract in Rabbit. *Annual spring meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, may 1-6, 1988. Invest ophthalmol visual sci* 29: 28.

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

Bianco, P. and Aghroud, N. (1997). Electrochemical Detection of Herbicides and Plant Growth Regulators at Membrane Glassy Carbon Electrodes. *Electroanalysis* 9: 602-607.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Blakeman, D. P., Ryan, T. P., Jolly, R. A., and Petry, T. W. (1995). Diquat-Dependent Protein Carbonyl Formation: Identification of Lipid-Dependent and Lipid-Independent Pathways. *Biochemical pharmacology* 50: 929-935.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Blomkalns, A. L., Rogers, L. K., Tamura, T., Tonoki, H., Hansen, T. N., and Smith, C. V. (1994). Toxicity of Acetaminophen N-Acetyl-P-Benzoquinone Imine Napqi and Diquat in Chinese Hamster Ovary Cho Cells With Genetically Modified Glutathione Reductase Gr Activities. *105th annual meeting of the american pediatric society and the 64th annual meeting of the society for pediatric research, san diego, california, usa, may 7-11, 1995. Pediatric research* 37: 75a.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Bogdanov, A. I., Koval', Y. U. V., Buryi, V. S., Bidnenko, L. I., Derevianko, S. I., Bondar', P. I., and Lobov, V. P. (Primenenie Reglona Dlia Desikatsii Botvy Kartofelia I Ego Toksikologigigienicheskaia Kharakteristika. [Use of Reglon for Desiccation of Potato Haulm and Its Toxicologo-Hygienic Characteristics.]. *Fiziol. Biokhim. Kul't. Rast.* 11(4): 351-357 1979 (8 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Bonneh-Barkay, D., Langston, W. J., and Di Monte, D. A. (Toxicity of Redox Cycling Pesticides in Primary Mesencephalic Cultures. *Antioxid redox signal.* 2005 may-jun; 7(5-6):649-53. [Antioxidants & redox signaling]: *Antioxid Redox Signal*.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Bovey, R. W. (1991). Principles of Chemical Control. *James, I. F., Et al. (Ed.). Westview special studies in agriculture science and policy: noxious range weeds* National noxious range weed conference on a forum for continuing cooperation. Xvi+466p. Westview press: boulder, colorado, usa; oxford, england, uk. Illus. Maps. Paper. Isbn 0-8133-8395-1.; 0: 103-114.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Bowler, C., Van Montagu M, and Inze, D. (1992). Superoxide Dismutase and Stress Tolerance. *Briggs, w. R. (Ed.). Annual review of plant physiology and plant molecular biology, vol. 43. Ix+685p. Annual reviews inc.: Palo alto, california, usa. Illus. Isbn 0-8243-0643-0.* 0: 83-116.
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: REVIEW.
- Bowmer, K. H. (1990). Herbicides in Water Economics or Environment. *Aust c s i r o inst nat resour environ div water resour tech memo* 0: 1-19.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Bowmer, K. H. (1986). Rapid Biological Assay and Limitations in Macrophyte Ecotoxicology a Review. *Aust j mar freshwater res* 37: 297-308.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Braun, Andrew G. and Horowicz, Peter B (1983). Lectin-mediated attachment assay for teratogens: results with 32 pesticides. *J. Toxicol. Environ. Health* 11: 275-86.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Brent, J. A. and Rumack, B. H. (1993). Role of Free Radicals in Toxic Hepatic Injury Ii. Are Free Radicals the Cause of Toxin-Induced Liver Injury? *J toxicol clin toxicol* 31: 173-196.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Broadley, R. H. (1992). Queensland Department of Primary Industries Information Series Qi90016. Protect Your Strawberries 2nd Edition. *Broadley, r. H. (Ed.). Queensland department of primary industries information series, qi90016. Protect your strawberries, 2nd edition. Vi+82p. Queensland department of primary*

June 2010 ECOTOX run

- industries: brisbane, queensland, australia. Illus. Paper. Isbn 0-7242-3238-9. 0: Vi+82p.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Brodie, S. E., Bhuyan, K. C., Friedman, A. H., and Podos, S. M. (1989). Acute Diquat Retinal Toxicity a Model for Free-Radical Damage to the Retina. *Annual spring meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, april 30-may 5, 1989. Invest ophthalmol visual sci* 30: 11.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Broussolle, E. and Thobois, S. ([Genetics and Environmental Factors of Parkinson Disease]. *Rev neurol (paris). 2002, dec; 158 spec no 1:s11-23. [Revue neurologique]: Rev Neurol (Paris).*
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Brown, M. A., Kim, I. S., Sasinos, F. I., and Stephens, R. D. (1990). Analysis of Target and Nontarget Pollutants in Aqueous and Hazardous Waste Samples by Liquid Chromatography-Particle Beam Mass Spectrometry. *Brown, m. A. (Ed.). Acs (american chemical society) symposium series, no. 420. Liquid chromatography spectrometry: applications in agricultural, pharmaceutical, and environmental chemistry 197th national meeting, dallas, texas, usa, april 9-14, 1989. Xii+298p. American chemical society: washington, d.c., Usa. Illus. Isbn 0-8412-1740-8.; 0: 198-214.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Brudenell, A. Jp, Baker, D. A., and Grayson, B. T. (1995). Phloem Mobility of Xenobiotics: Tabular **Review of Physicochemical Properties** Governing the Output of the Kleier Model. *Plant growth regulation* 16: 215-231.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Burdon, J., Hayes, M. H. B., and Pick, M. E. (The Electron Density Distribution in Pyridinium and Bipyridylum Compounds and Its Relevance to Their Absorption by Expanding Lattice Clays. *J. Environ. Sci. Health b12(1): 37-51 1977..*
Chem Codes: Chemical of Concern: DQTBr,DQQT,PAQT Code: FATE.
- Burridge, L. E. and Haya, K. (1987). The Use of a Fugacity Model to Assess Risk to Aquatic Animals of Agricultural Pesticides Uses on Prince Edward Island Canada. *Thirteenth annual aquatic toxicity workshop, moncton, new brunswick, canada, november 12-14, 1986. Can tech rep fish aquat sci* 0: 136-140.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Cai, J. and El Rassi Z (1992). Capillary Zone Electrophoresis of Two Cationic Herbicides Paraquat and Diquat. *Second annual frederick conference on capillary electrophoresis, frederick, maryland, usa, october 15-16, 1991. J liq chromatogr* 15: 1193-1200.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Cai, Y. and Rikans, L. E. (1992). Effect of Aging on Diquat and Iron-Induced Lipid Peroxidation in Rat Hepatocytes. *Meeting of the federation of american societies for experimental biology (faseb) part ii, anaheim, california, usa, april 5-9, 1992. Faseb (fed am soc exp biol) j* 6: A1618.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Cairns, J. and Van Der Schalie, W. (Biological Monitoring. Part 1 - Early Warning Systems. *Water Res.* 14(9): 1179-1196 1980 (158 References).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Caissie, G. E. and Mallet, V. N. (The Fluorimetric Detection of Pesticides on Aluminium Oxide Layers. *J. Chromatogr.* 117(1): 129-136 1976..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Calvet, R. (1989). Adsorption of Organic Chemicals in Soils. *Environ health perspect* 83: 145-178.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.

June 2010 ECOTOX run

- Camoni, I., Di Muccio a, Bellisai, M. S., and Citti, P. (1993). Pesticide Residue Control in the Years 1988-1989 in Italy. *Biomed environ sci* 6: 161-171.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Cannard, A. J. and Criddle, W. J. (A Rapid Method for the Simultaneous Determination of Paraquat and Diquat in Pond and River Waters by Pyrolysis and Gas Chromatography. *Analyst (london)* 100(1197): 848-853 1975..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Carbonell, E., Valbuena, A., Xamena, N., Creus, A., and Marcos, R. (1995). Temporary Variations in Chromosomal Aberrations in a Group of Agricultural Workers Exposed to Pesticides. *Mutation research* 344: 127-134.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Carlsson, H., Bang, U., and Olofsson, B. (1987). Investigation on Different Methods of Haulm Killing in Potatoes. *Sver lantbruksuniv inst vaxtodling rapp* 0: 1-36.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Carmines, E. L., Carchman, R. A., and Borzelleca, J. F. (Investigations Into the Mechanism of Paraquat Toxicity Utilizing a Cell Culture System. *Toxic. Appl. Pharmacol.* 58(3): 353-362 1981 (36 references).
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Carneiro, M. C., Puignou, L., and Galceran, M. T. (1994). Comparison of Capillary Electrophoresis and Reversed-Phase Ion-Pair High-Performance Liquid Chromatography for the Determination of Paraquat Diquat and Difenzoquat. *Journal of chromatography a* 669: 217-224.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Casey, R. J. and Kendall, S. (1997). Potential Toxicity of an Aquatic Herbicide in a Littoral Zone. *Twenty-third annual aquatic toxicity workshop, calgary, alberta, canada, october 7-9, 1996. Canadian technical report of fisheries and aquatic sciences* 0: 151.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Castro, J. A. (1990). Prevention of Chemically Induced Liver Injury. *Goldstein, r. S., W. R. Hewitt and j. B. Hook (ed.). Toxic interactions. Xiv+488p. Academic press, inc.: San diego, california, usa* London, england, uk. Illus. Isbn 0-12-289515-0.; 0: 233-258.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Castro, R., Moyano, E., and Galceran, M. T. (Determination of Quaternary Ammonium Pesticides by Liquid Chromatography-Electrospray Tandem Mass Spectrometry. *J chromatogr a.* 2001, apr 20; 914(1-2):111-21. [*Journal of chromatography. A*]: *J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Caussanel, J. P., Branthome, X., Maillet, J., and Carteron, A. (1990). Effects of Density and Period of Competition by Solanum Nigrum L. On Direct Seeded Tomatoes in Relation to Weed Control. *Weed res* 30: 341-354.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Chang, F., Hegeman, S., and Bosin, T. (Uptake of Diquat and Paraquat by Rat Lens in Vitro. *Pharmacologist* 23(3): 214 1981.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Charles, J. M. and Menzel, D. B. (Influence of Atmospheric Particulates on Pulmonary Absorption Phenomenon. *Acs symp. Ser. 174(ch15): 287-301 1979 (33 references).*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO,INHALE.
- Cheng, Y. and Hercules, D. M. (Studies of Pesticides by Collision-Induced Dissociation, Postsource-Decay, Matrix-Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometry. *J am soc mass spectrom.*

June 2010 ECOTOX run

- 2001, may; 12(5):590-8. [*Journal of the american society for mass spectrometry*]: *J Am Soc Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Chichila, T. M. and Walters, S. M. (1991). Liquid Chromatographic Determination of Paraquat and Diquat in Crops Using a Silica Column With Aqueous Ionic Mobile Phase. *J assoc off anal chem* 74: 961-967.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Chichila, T. Mp and Gilvydis, D. M. (1993). Determination of Paraquat and Diquat in Low-Moisture Food Crops Using Silica Column Cleanup and Liquid Chromatography With Uv Detection. *Journal of aoac international* 76: 1323-1328.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Chiou, C. T. (1990). Roles of Organic Matter Minerals and Moisture in Sorption of Nonionic Compounds and Pesticides by Soil. *Maccarthy, p., Et al. (Ed.). Humic substances in soil and crop sciences: selected readings* Symposium, chicago, illinois, usa, december 2, 1985. Xvii+281p. American society of agronomy, inc.; Soil science society of america, inc.: Madison, wisconsin, usa. Illus. Isbn 0-89118-104-0.; 0: 111-160.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Clark, D. G. and Hurst, E. W. (The Toxicity of Diquat. *Br j ind med.* 1970, jan; 27(1):51-5. [*British journal of industrial medicine*]: *Br J Ind Med.*
Chem Codes: Chemical of Concern: DQTBr,DQT Code: REVIEW.
- Clegg, D. J. (Animal Reproduction and Carcinogenicity Studies in Relation to Human Safety Evaluation. *Dev. Toxicol. Environ. Sci.* 4: 45-59 1979 (120 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Cloos, P. (Interactions Between Pesticides and the Mineral Fraction of Soil. *Pedologie*22(2): 148-173 1972.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Close, M. E. (1993). Assessment of Pesticide Contamination of Groundwater in New Zealand: 1. Ranking of Regions for Potential Contamination. *N z j mar freshwater res* 27: 257-266.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Close, M. E. and Canter, L. W. (1990). A Planning Index for Assessing Potential Pesticide Contamination in Ground Water Systems. *Environ prof* 12: 278-285.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Coats, J. R. (Toxicology of Pesticide Residues in Foods. *Hathcock, j. N. (Ed.). Nutrition: basic and applied science: a series of monographs: nutritional toxicology, vol. Ii.* Xv+300p. Academic press: san diego, california, usa; academic press inc. (London) ltd.: London, england, uk. Illus. Isbn 0-12-332602-8.; 0 (0). 1987. 249-280.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Cohen, G. M. (1987). Mechanisms of Chemical-Induced Lung Toxicity. *Ganderton, d. And t. M. Jones (ed.). Ellis horwood series in biomedicine: drug delivery to the respiratory tract.* 141p. Vch publishers, inc.: New york, new york, usa Weinheim, west germany; ellis horwood ltd.: Chichester, england, uk. Illus. Isbn 0-89573-586-5; isbn 3-527-26574-0.; 0: 58-67.
Chem Codes: Chemical of Concern: DQTBr Code: INHALE.
- Collins, S. C. (1991). Chemical Control of Grassy Weeds. *Baker, f. W. G. And p. J. Terry (ed.). Casafa (committee on the application of science to agriculture, forestry and aquaculture) report series, 2. Tropical grassy weeds* Casafa workshop, nairobi, kenya, february 5-8, 1990. Viii+203p. Cab international: wallingford, england, uk. Illus. Maps. Isbn 0-85198-709-5.; 0: 73-84.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Comm Residues (1993). **General Referee Reports** Committee on Residues Aoac International Annual Meeting

June 2010 ECOTOX run

- Cincinnati Ohio Usa August 31-September 2 1992. *J aoac (assoc off anal chem) int* 76: 142-149.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Comm Residues Usa (1991). **General Referee Reports** Committee on Residues 104th Aoac Annual International Meeting New Orleans Louisiana Usa September 9-13 1990. *J assoc off anal chem* 74: 149-155.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Connell, T. R., Koenig, J. P., Stevenson, W. R., Kelling, K. A., Curwen, D., Wyman, J. A., and Binning, L. K. (1991). An **Integrated Systems Approach** to Potato Crop Management. *J prod agric* 4: 453-460.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Constable, E. C. (1989). Homoleptic Complexes of 2,2'-Bipyridine. Sykes, a. G. (Ed.). *Advances in inorganic chemistry, vol. 34. Vi+393p. Academic press, inc.: San diego, california, usa* London, england, uk. Illus. Isbn 0-12-023634-6.; 0: 1-64.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Corwin, D. L. (1986). A One-Dimensional Model of Chemical Diffusion and Sorption in Saturated Soil and Aquatic Systems. *J environ qual* 15: 173-182.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Corwin, D. L. and Farmer, W. J. (1985). A **Mathematical Model** of Diffusion Under Saturated Conditions to Assess the Pollution Potential of Herbicides to Aquatic Systems. *Hilgardia* 53: 1-36.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Costa, L. G. (1997). Basic Toxicology of Pesticides. *Occupational medicine (philadelphia)* 12: 251-268.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Cranmer, M. (Toxicology of Families of Chemicals Used as Herbicides in Forestry. *In: symposium on the use of herbicides in forestry. (Usda: washington, dc) pp. 53-69 1978 (45 references).*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Critter, S. A. and Airoidi, C. (Application of Calorimetry to Microbial Biodegradation Studies of Agrochemicals in Oxisols. *J environ qual. 2001 may-jun; 30(3):954-9. [Journal of environmental quality]: J Environ Qual.*
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Cseplo, A. and Medgyesy, P. (1986). Characteristic Symptoms of Photosynthesis Inhibition by Herbicides Are Expressed in Photomixotrophic Tissue Cultures of Nicotiana. *Planta (berl)* 168: 24-28.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Cserhati, T. (1993). Interaction of Diquat and Paraquat With Humic Acid and the Influence of Salt Concentration and Ph on the Strength of Interaction. *Fresenius' j anal chem* 345: 541-544.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Cserhati, T. and Szigeti, Z. (1991). Ions Modify the Strength of Interaction of Diquat and Paraquat With Some Proteins and Cellulose. *Z naturforsch sect c biosci* 46: 428-432.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Cserhati, T., Szogyi, M., and Szigeti, Z. (1988). Interaction of Amino Acids With the Herbicides Diquat and Paraquat Studied by Charge-Transfer Chromatography. *17th international symposium on chromatography, vienna, austria, september 25-30, 1988. Chromatographia* 26: 305-310.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Cserhati, T. and Valko, K. (1991). Interaction of Diquat and Paraquat With Glutathione Studied by Means of Charge-Transfer Chromatography. *J liq chromatogr* 14: 3657-3672.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Cullimore, D. R. and Ball, L. (New Monitoring System for Proteolysis in Soil as Influenced by Selected Herbicidal Applications. *Appl. Environ. Microbiol.* 36(6): 959-961 1978 (4 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Culliney, T. W., Pimentel, D., and Pimentel, M. H. (1992). Pesticides and Natural Toxicants in Foods. *Agric ecosyst environ* 41: 297-320.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Czyzewska, K. (Changes to Transport Activities of the **Intestinal Epithelium** Under the Influence of Bipyridyl Derivatives. *Postępy biol komorki*; 11 (3-4). 1984 (recd. 1985). 387-390.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Czyzewska, K., Junik, R., and Knapowski, J. (Changes of Transport Functions of Rabbit Small Intestinal Wall Under the Effect of Diquat and Its Penetration in-Vitro. *Acta med pol*; 26 (1-2). 1985 (recd. 1986). 13-26.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Czyzewska, K. and Knapowski, J. (1984). The Effect of Bipyridylium Compounds on the Transport Activities of Rabbits Small Intestine and Their Penetration in-Vitro. *Folia med cracov* 25: 231-240.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- D'silva, E. T., Winter, J. D., and Patino, R. (1997). The Stress Response and Development of Juvenile Largemouth Bass Exposed to Sublethal Concentrations of Aquatic Herbicides. *Annual meeting of the ecological society of america held jointly with the nature conservancy on changing ecosystems: natural and human influences, albuquerque, new mexico, usa, august 10-14, 1997. Bulletin of the ecological society of america* 78: 242.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Danon, S. and Chipilska, L. (Use of Cell Cultures for Determining Pesticide Toxicity . *Khig. Zdraveopaz.* 20(1): 84-90 1977 (12 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Daunerer, M. (Acute Intoxication. Treatment by the Hospital and Household Physician. *Med. Klin. (Munich)*68(44): 43; 1973.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Daunerer, M. (Treatment of Poisoning: Antidotes. Series 1. Abc's of Treatment of Poisoning - Antidotes, Indications, Dosages. *Fortschr. Med.* 96(25): 1313-1317 1978.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Davies, J. E. (Recognition and Management of Pesticide Toxicity. *Advan. Intern. Med.*18: 23-38 1973.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Davila, G. H. (1987). Regional Program on Chemical Safety Rpcs Document Presented to the Xxii Pan American Sanitary Conference. *Pan am health organ environ ser* 0: I-iv, 1-36.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Davis, D. G. and Shimabukuro, R. H. (Studies of Herbicide Toxicity and Mode of Action Using Isolated Mesophyll Cells and Callus-Derived Cell Suspensions. *Can. J. Bot.* 58(13): 1482-1489 1980 (21 references).
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Dawson, F. H. (1994). Spread of *Crassula Helmsii* in Britain. *De waal, I. C., Et al. (Ed.). Landscape ecology series: ecology and management of invasive riverside plants. X+217p. John wiley and sons ltd.: Chichester, england, uk New york, new york, usa. Isbn 0-471-94257-x.; 0: 1-14.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Dawson, T. J. (1987). Risk Considerations in Pesticide Public Policy Decision Making in Wisconsin Usa. *D'itri, f.*

June 2010 ECOTOX run

- M. And I. G. Wolfson. **Rural groundwater contamination**. Xix+416p. Lewis publishers, inc.: Chelsea, michigan, usa. Illus. Isbn 0-87371-100-9. 0: 261-290.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- De Almeida, R. M. and Yonamine, M. (Gas Chromatographic-Mass Spectrometric Method for the Determination of the Herbicides Paraquat and Diquat in Plasma and Urine Samples. *J chromatogr b analyt technol biomed life sci*. 2007, jun 15; 853(1-2):260-4. [Journal of chromatography. B, analytical technologies in the biomedical and life sciences]: *J Chromatogr B Analyt Technol Biomed Life Sci*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Debets, A. Jj, Hupe, K. P., Kok, W. T., and Brinkman, U. At (1992). Electrodialytic Sample Treatment Coupled on-Line With Column Liquid Chromatography for the Determination of Basic and Acidic Compounds in Environmental Samples. *J chromatogr* 600: 163-173.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Delaunois, A., Gustin, P., Blaude, M. N., Bloden, S., and Ansay, M. (1992). Toxicity of Herbicides in Domestic Animals. *Ann med vet* 136: 181-192.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Dick, R. A., Kanne, D. B., and Casida, J. E. (Identification of Aldehyde Oxidase as the Neonicotinoid Nitroreductase. *Chem res toxicol*. 2005, feb; 18(2):317-23. [Chemical research in toxicology]: *Chem Res Toxicol*.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO,NO EFFECT.
- Dickes, G. J. (The Application of Gas Chromatography to Food Analysis. *Talanta* 26(12): 1065-1099 1979 (518 references).
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Dinsdale, D. (1993). Toxicology of the Lung Report on a Joint Meeting of the British Association for Lung Research and the British Toxicology Society Cardiff Wales Uk September 25 1992. *Respir med* 87: 279-284.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Dionigi, C., Millie, D., and Johnsen, P. (1991). Effects of Photosynthetic Inhibitors on the Growth of the Blue-Green Alga Anabaena-Circinalis. *Annual meeting of the american society of plant physiologists, albuquerque, new mexico, usa, july 28-august 1, 1991. Plant physiol (bethesda)* 96: 50.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Ditomaso, J. M. and Kochian, L. V. (1990). Competitive Effects of Bipyrldylum Herbicides on Putrescine Uptake in Roots of Intact Maize Seedlings. *Annual meeting of the american society of plant physiologists, indianapolis, indiana, usa, july 29-august 2, 1990. Plant physiol (bethesda)* 93: 50.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Dixon, R. L. (Toxic Responses of the Reproductive System. *In: toxicology: the basic science of poisons*. Doull, j., Klaassen, c. D. And amdur, m. O., Eds. (Macmillan publ. Co. Inc.: Ny): ch15: 332-354 1980 (18 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Dodge, A. (1990). Action and Resistance of Herbicides Interacting With Photosystem I. *7th congress of the federation of european societies of plant physiology, umea, sweden, august 5-10, 1990. Physiol plant* 79: A48.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Douglas, J. F., Mcgeown, M. G., and Mcevoy, J. (The Treatment of Paraquat Poisoning: Three Cases of Recovery. *Ulster med. J*.42: 209-212 1973.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Dourson, M. L., Knauf, L. A., and Swartout, J. C. (1992). On Reference Dose (Rfd) and Its Underlying Toxicity Data

June 2010 ECOTOX run

- Base. *Toxicol ind health* 8: 171-189.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Dourson, M. L. and Lu, F. C. (1995). Safety/Risk Assessment of Chemicals Compared for Different Expert Groups. *Biomedical and environmental sciences* 8: 1-13.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Edmiston, S. and Maddy, K. T. (1987). Summary of Illnesses and Injuries Reported in California Usa by Physicians in 1986 as Potentially Related to Pesticides. *Vet hum toxicol* 29: 391-397.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ericsson, N. A. (1987). A Trial With Herbicides in an Apple Orchard 1975-1979. *Sver lantbruksuniv inst tradgardsvetensk rapp* 0: 1-28.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Evans, C. S., Startin, J. R., Goodall, D. M., and Keely, B. J. (Formation of Gas-Phase Clusters Monitored During Electrospray Mass Spectrometry: a Study of Quaternary Ammonium Pesticides. *Rapid commun mass spectrom.* 2001; 15(15):1341-5. [Rapid communications in mass spectrometry : rcm]: *Rapid Commun Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Evans, C. S., Startin, J. R., Goodall, D. M., and Keely, B. J. (Tandem Mass Spectrometric Analysis of Quaternary Ammonium Pesticides. *Rapid commun mass spectrom.* 2001; 15(9):699-707. [Rapid communications in mass spectrometry : rcm]: *Rapid Commun Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Feldmann, R. J. and Maibach, H. I. (Percutaneous Penetration of Some Pesticides and Herbicides in Man. *Toxicol. Appl. Pharmacol.* 28(1): 126-132 1974.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Fernandez, M., Ibanez, M., Pico, Y., and Manes, J. (1998). Spatial and Temporal Trends of Paraquat, Diquat, and Difenzoquat Contamination in Water From Marsh Areas of the Valencian Community (Spain). *Archives of environmental contamination and toxicology* 35: 377-384 .
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Fisher, H. L., Most, B., and Hall, L. L. (1985). Dermal Absorption of Pesticides Calculated by Deconvolution. *J appl toxicol* 5: 163-177.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Fodor-Csorba, K. (1992). Chromatographic Methods for the Determination of Pesticides in Foods. *J chromatogr* 624: 353-367.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Frank, R., Braun, H. E., Ripley, B. D., and Clegg, B. S. (1990). Contamination of Rural Ponds With Pesticide 1971-85 Ontario Canada. *Bull environ contam toxicol* 44: 401-409.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Frank, R. and Logan, L. (1988). Pesticide and Industrial Chemical Residues at the Mouth of the Grand Saugeen and Thames Rivers Ontario Canada 1981-1985. *Arch environ contam toxicol* 17: 741-754.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Frank, R., Logan, L., and Clegg, B. S. (1991). Pesticide and Polychlorinated Biphenyl Residues in Waters at the Mouth of the Grand, Saugeen, and Thames Rivers, Ontario, Canada, 1986-1990. *Arch environ contam toxicol* 21: 585-595.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.

June 2010 ECOTOX run

- Frey, F. (Effects of Herbicides Applied in Orchards on *Acroboloides Buetschlii* (De Man, 1884) Steiner and Buhner, 1933. *Z. Pflanzenkr. Pflanzenschutz* 83(7/8): 434-441 1976..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Fu, Y., Porres, J. M., and Lei, X. G. (Comparative Impacts of Glutathione Peroxidase-1 Gene Knockout on Oxidative Stress Induced by Reactive Oxygen and Nitrogen Species in Mouse Hepatocytes. *Biochem j.* 2001, nov 1; 359(pt 3):687-95. [*The biochemical journal*]: *Biochem J.*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Funari, E. (1995). Human Health Implications Associated With the Presence of Pesticides in Drinking Water. *Vighi, m. And e. Funari (ed.). Pesticide risk in groundwater. Xii+275p. Crc press, inc.: Boca raton, florida, usa* London, england, uk. Isbn 0-87371-439-3.; 0: 121-130.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Fuzesi, I. (Absorption and Excretion of Reglone Herbicide in Cattle Fed With Treated Fodder. *Egeszsegtudomány* 21(2): 190-194 1977 (12 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Gage, J. C. (Toxicity of Paraquat and Diquat **Aerosols** Generated by a Size-Selective Cyclone: Effect of Particle Size Distribution. *Br j ind med.* 1968, oct; 25(4):304-14. [*British journal of industrial medicine*]: *Br J Ind Med.*
Chem Codes: Chemical of Concern: DQTBr Code: INHALE.
- Galceran, M. T., Carneiro, M. C., Diez, M., and Puignou, L. (1997). Separation of Quaternary Ammonium Herbicides by Capillary Electrophoresis With Indirect Uv Detection. *Journal of chromatography a* 782: 289-295.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ganesan, M., Natesan, S., and Ranganathan, V. (Spectrophotometric Method for the Determination of Paraquat. *Analyst (london)* 104(1236): 258-261 1979 (10 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Geller, D. M., Bhuyan, D. K., and Bhuyan, K. C. (1991). Antioxidant and Anticataract Efficacy of Beta Carotene and Dl-Alpha Tocopherol Vitamin E as Tested in Diquat-Induced Cataract in Rabbits. *Annual spring meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, april 28-may 3, 1991. Invest ophthalmol visual sci* 32: 724.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Gentile, J. M. and Plewa, M. J. (1988). The Use of Cell-Free Systems in Plant Activation Studies. *Mutat res* 197: 173-182.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Glomb, V., Artner, P., and Sequens, J. (1991). Injections of Chemical Preparations to Stimulate Resin Production in Trees. *Lesnictvi (prague)* 37: 327-332.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Goldstein, R. S., Hewitt, W. R., and Hook, J. B. (1990). Toxic Interactions. *Goldstein, r. S., W. R. Hewitt and j. B. Hook (ed.). Toxic interactions. Xiv+488p. Academic press, inc.: San diego, california, usa* London, england, uk. Illus. Isbn 0-12-289515-0.; 0: Xiv+488p.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Goncharuk, V. V. (1990). Photocatalytic Treatment of Wastewaters. *Zh vses khim o-va im d i mendeleeva* 35: 112-117.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Goto, S. (Methods for Determination of Pesticide Residues Based on the Notification of Environmental Agency. Part 2. Fungicides and Herbicides. *Nippon noyaku gakkaiishi (j. Pestic. Sci.)* 3(3): 315-325 1978.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Grandjean, P., Sandoe, S. H., and Kimbrough, R. D. (1991). Non-Specificity of Clinical Signs and Symptoms Caused by Environmental Chemicals. *Hum exp toxicol* 10: 167-174.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Grosser, Z. A., Ryan, J. F., and Dong, M. W. (1993). Environmental Chromatographic Methods and Regulations in the United States of America. *J chromatogr* 642: 75-87.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Grover, R., Smith, A. E., and Korven, H. C. (A Comparison of Chemical and Cultural Control of Weeds in Irrigation Ditchbanks. *Can. J. Plant. Sci.* 60(1): 185-195 1980 (13 references).
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Gubbels, G. H., Bonner, D. M., and Kenaschuk, E. O. (1994). Use of Desiccants to Reduce Frost Damage in Immature Flax. *Canadian journal of plant science* 74: 121-123.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Gupta, S., Chang, A., Rogers, L. K., and Smith, C. V. (1992). Diquat-Induced Subcellular Redistribution of Hepatic Iron in Rats. 1992 meeting of the federation of american societies for experimental biology (faseb), part i, anaheim, california, usa, april 5-9, 1992. *Faseb (fed am soc exp biol)* j 6: A1056.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Haag, W. R. and Yao, C. Cd (1992). Rate Constants for Reaction of Hydroxyl Radicals With Several Drinking Water Contaminants. *Environ sci technol* 26: 1005-1013.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Hajslova, J., Cuhra, P., Davidek, T., and Davidek, J. (1989). Gas Chromatographic Determination of Diquat and Paraquat in Crops. *J chromatogr* 479: 243-250.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Halfon, E., Galassi, S., Bruggemann, R., and Provini, A. (1996). Selection of Priority Properties to Assess Environmental Hazard of Pesticides. *Chemosphere* 33: 1543-1562.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Hall, A. H. (1995). Paraquat and Diquat Exposures Reported to U.s. Poison Centers 1983-1992. *Bismuth, c. And a. H. Hall (ed.). Drug and chemical toxicology, vol. 10. Paraquat poisoning: mechanisms, prevention, treatment. Xvii+362p. Marcel dekker, inc.: New york, new york, usa* Basel, switzerland. Isbn 0-8247-9370-6.; 10: 53-63.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Hammes, P. S. (1990). Chemical Desiccation of Potato Foliage. *Appl plant sci* 4: 36-39.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Hardell, L., Eriksson, M., and Lenner, P. (Maligna Lymfom Och Exposition Foer Kemiska Substanser, Saerskilt Organiska Loesningsmedel, Klorfenoler Och Fenoxisyror. [Malignant Lymphoma and Exposure to Chemical Substances, Especially Organic Solvents, Chlorophenols, and Phenoxy Acids.]. *Lakartidningen* 77(4): 208-210 1980 (26 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Harshbarger, J. C. and Clark, J. B. (1990). Epizootiology of Neoplasms in Bony Fish of North America. *Symposium on chemical contaminants and fish tumors. Sci total environ* 94: 1-32.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Hatrik, S. and Tekel, J. (1996). Extraction Methodology and Chromatography for the Determination of Residual

June 2010 ECOTOX run

- Pesticides in Water. *Journal of chromatography a* 733: 217-233.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Hawkins, S. F., Medina, M. A., and Stavinoha, W. B. (1979). The Acute in Vivo Effect of Paraquat and Diquat on Intermediary Metabolism in Mouse Lung. *Fed. Proc. Fed. Am. Soc. Exp. Biol.* 38(3, pt. 1): 582 1979 38: 582.
Chem Codes: Chemical of Concern: DQTBr,DQT,PAQT Code: ABSTRACT.
- Hayes, M. H. B., Pick, M. E., and Toms, B. A. (Interactions Between Clay Minerals and Bipyrldylum Herbicides. *Residue rev.* 57: 1-25 1975..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Hearn, C. E. D. (Pesticides in Agriculture. *Clin. Med.* 83(3): 12-16 1976..
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Henriksson, L. (1988). Studies in Sweden. *Scandinavian association of agricultural scientists on reduced cultivation seminar, horsens, denmark, february 9-11, 1988. Sver lantbruksuniv uppsala inst markvetenskap rapp jordbearbetningsavdelningen* 0: 37.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Hertzman, C., Wiens, M., Bowering, D., Snow, B., and Calne, D. (1990). Parkinson's Disease: a Case-Control Study of Occupational and Environmental Risk Factors. *Am j ind med* 17: 349-356.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Hill, K. R. (Iupac Commission on Terminal Residues. *J. Assoc. Off. Anal. Chem.* 58(6): 1256-1285 1975..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Hoagland, K. D., Carder, J. P., and Spawn, R. L. (1996). Effects of Organic Toxic Substances. *Stevenson, r. J., M. L. Bothwell and r. L. Lowe (ed.). Aquatic ecology series: algal ecology: freshwater benthic ecosystems.* Xxvi+753p. Academic press, inc.: San diego, california, usa London, england, uk. Isbn 0-12-668450-2.; 0: 469-496.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Hodgson, E. (1987). Reviews in Environmental Toxicology 3. *Hodgson, e. (Ed.). Reviews in environmental toxicology, 3. Xi+287p. Elsevier science publishers b.v.: Amsterdam, netherlands (dist. In the usa and canada by elsevier science publishing co., Inc.: New york, new york, usa). Illus. Maps. Isbn 0-444-80902-3.* 0: Xi+287p.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Hong, Wuk Hee, Meier, Peter G., and Deininger, Rolf A (1987). A microcomputer-interfaced continuous flow toxicity test system. *Water Res.* 21: 1249-57.
Chem Codes: Chemical of Concern: DQTBr Code: METHODS.
- Horiuchi, N., Oguchi, S., Nagami, H., and Nishigaki, Y. (Pesticide-Related Dermatitis in Saku District, Japan, 1975-2000. *Int j occup environ health.* 2008 jan-mar; 14(1):25-34. [International journal of occupational and environmental health]; *Int J Occup Environ Health.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Horowitz, M. (Bioassay Techniques for Foliar-Applied Herbicides. *Residue rev.* 61: 113-123 1976..
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Hughes, H., Smith, C. V., and Mitchell, J. R. (1985). The Effects of Diquat on Lipid Peroxidation in the Fischer Rat Liver. *69th annual meeting of the federation of american societies for experimental biology, anaheim, calif., Usa, apr. 21-26, 1985. Fed proc* 44: 1651.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

June 2010 ECOTOX run

- Ibanez, M., Pico, Y., and Manes, J. (1998). Improving the Solid-Phase Extraction of "Quat" Pesticides From Water Samples: Removal of Interferences. *Journal of chromatography a* 823: 137-146.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ibanez, M., Pico, Y., and Manes, J. (1996). Influence of Organic Matter and Surfactants on Solid-Phase Extraction of Diquat, Paraquat and Difenzoquat From Waters. *Journal of chromatography a* 727: 245-252.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ibanez, M., Pico, Y., and Manes, J. (1996). On-Line Liquid Chromatographic Trace Enrichment and High-Performance Liquid Chromatographic Determination of Diquat, Paraquat and Difenzoquat in Water. *Journal of chromatography a* 728: 325-331.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ihnat, M., Khan, S. U., and Shearer, D. A. (Chemistry and Biology Research Institute, Agriculture Canada. *Chem. Can.* 27(6): 42-43; 1975.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Illing, H. Pa (1997). Is Working in Greenhouses Healthy? Evidence Concerning the Toxic Risks That Might Affect Greenhouse Workers. *Occupational medicine (london)* 47: 281-293.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ishimaru, T., Suzuki, K., and Matsuda, K. ([Detection of Paraquat Dichloride and Diquat Dibromide]. *Nippon rinsho.* 2004, dec; 62 suppl 12:533-8. [*Nippon rinsho. Japanese journal of clinical medicine*]: *Nippon Rinsho*.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Itagaki, T., Lai, S. J., and Binder, S. R. (1997). A Rapid Monitoring Method of Paraquat and Diquat in Serum and Urine Using Ion-Pairing Bare-Silica Stationary Phase Hplc Following a Single Acidification Step of Sample Pretreatment. *Journal of liquid chromatography & related technologies* 20: 3339-3350.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ito, M., Hori, Y., Fujisawa, M., Oda, A., Katsuyama, S., Hirose, Y., and Yoshioka, T. (Rapid Analysis Method for Paraquat and Diquat in the Serum Using Ion-Pair High-Performance Liquid Chromatography. *Biol pharm bull.* 2005, apr; 28(4):725-8. [*Biological & pharmaceutical bulletin*]: *Biol Pharm Bull*.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ito, S., Nagata, T., Kudo, K., Kimura, K., and Imamura, T. (1993). Simultaneous Determination of Paraquat and Diquat in Human Tissues by High-Performance Liquid Chromatography. *J chromatogr biomed appl* 617: 119-123.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Jaeschke, H., Benzick, A. E., Smith, C. V., and Mitchell, J. R. (1991). The Pathophysiological Significance of Reactive Oxygen Formation in Rat Liver. *Witmer, c. M., Et al. (Ed.). Advances in experimental medicine and biology, vol. 283. Biological reactive intermediates iv: molecular and cellular effects and their impact on human health* Fourth international symposium, tucson, arizona, usa, january 14-17, 1990. Xvii+894p. Plenum publishing corp.: New york, new york, usa; london, england, uk. Illus. Isbn 0-306-43737-6.; 0: 295-298.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Jager, K. W. (1986). The International Program on Chemical Safety. *Von hofsten, b. And g. Ekstrom (ed.). Control of pesticide applications and residues in food: a guide and directory-1986.* Vii+315p. Swedish science press: uppsala, sweden. Maps. Isbn 91-86992-01-5. 0: 21-22.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Jarvie, D. R. and Stewart, M. J. (The Rapid Extraction of Paraquat From Plasma Using an Ion-Pairing Technique.

June 2010 ECOTOX run

- Clin. Chim. Acta* 94(3): 241-251 1979 (13 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kambhampati, I., Roinestad, K. S., Hartman, T. G., Rosen, J. D., Fukuda, E. K., Lippincott, R. L., and Rosen, R. T. (1994). Determination of Diquat and Paraquat in Water Using High-Performance Liquid Chromatography With Confirmation by Liquid Chromatography-Particle Beam Mass Spectrometry. *Journal of chromatography a* 688: 67-73.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kanazawa, J. (Chemical Derivatization-Gas Chromatography in Pesticide Residue Analysis. *Bunseki (analysis)* (6): 389-394 1978 (35 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Kaniansky, D., Ivanyi, F., and Onuska, F. I. (1994). On-Line Isotachophoretic Sample Pretreatment in Ultratrace Determination of Paraquat and Diquat in Water by Capillary Zone Electrophoresis. *Analytical chemistry* 66: 1817-1824.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kanno, S., Takekoshi, Y., Kawase, S., Kihoh, T., Shimizu, H., and Ukai, S. (1995). Gas Chromatographic Analysis of Reduction Products of Paraquat, Diquat and the Related Compounds: Reductive Cleavage of N-Alkylpyridinium Derivatives With NabH₄-NiCl₂ Reduction System. *Yakugaku zasshi* 115: 641-660.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Kanno, S., Takekoshi, Y., Kawase, S., Nagai, K., Kiho, T., and Ukai, S. (1987). A Reductive Fission of Paraquat and Diquat by Sodium Boro Hydroxide Coexisting With Transition Metal Nickel. *Joint japan-usa congress of pharmaceutical sciences, honolulu, hawaii, usa, december 2-7, 1987. J pharm sci* 76: S30.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kanno, S., Takekoshi, Y., Kawase, S., and Ukai, S. (1991). Gas Liquid Chromatography-Mass Spectrometry of Paraquat and Diquat Reduction Products: a Reductive Cleavage of Paraquat and Diquat by Sodium Borohydride in the Presence of a Transition Metal Salt (Nickel(II)). *Chem pharm bull (tokyo)* 39: 956-963.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kasparkova, V. and Hybasek, P. (1992). Effect of Herbicides on Human Skin: Penetration of Herbicides Through the Epidermis "in Vitro". *Acta universitatis palackianae olomucensis facultatis medicae* 133: 15-18.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Kepner, R., Pratt, J. R., and Melendez, A. (1992). Macrophyte and Artificial Substrate-Associated Microbial Responses to Diquat Treatment. *1992 annual meeting of the ecological society of america, honolulu, hawaii, usa, august 9-13, 1992. Bull ecol soc am* 73: 228-229.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Khan, S. U. (Adsorption of Bipyridylum Herbicides by Humic Acid. *J. Environ. Qual.* 3(3): 202-206 1974.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Khan, S. U. (Determination of Diquat and Paraquat Residues in Soil by Gas Chromatography. *J. Agr. Food chem.* 22(5): 863-869 1974.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Khan, S. U. (Determining the Role of Humic Substances in the Fate of Pesticides in the Environment. *J. Environ. Sci. Health b* 15(6): 1071-1090 1980 (11 references).
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Khan, S. U. (Humic Substances Reactions Involving Bipyridylum Herbicides in Soil and Aquatic Environments. *Residue rev.* 52: 1-26 1974.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Kim, E. H. and Choi, K. S. (A Critical Role of Superoxide Anion in Selenite-Induced Mitophagic Cell Death. *Autophagy*. 2008, jan 1; 4(1):76-8. [*Autophagy*]: *Autophagy*.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- King, R. R. (Gas Chromatographic Determination of Diquat Residues in Potato Tubers. *J. Agric. Food chem.* 26(6): 1460-1463 1978 (9 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kirkwood, R. C. (1993). Target Site Delivery of Herbicidal Compounds. *Harvey, a. L. (Ed.). Ellis horwood series in pharmaceutical technology: drugs from natural products: pharmaceuticals and agrochemicals. Vii+171p. Ellis horwood: new york, new york, usa Chichester, england, uk. Isbn 0-13-096546-4.; 0: 65-81.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Kiyanskii, V. V., Burakhta, V. A., Dorozhkina, L. A., and Maksimova, Z. M. (1989). Determining the Amount of Pesticides by Potentiometric Titration With Ion Selective Electrodes. *Izv timiryazev s-kh akad* 0: 163-168.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Klaassen, C. D. and Liu, J. (1997). Role of Metallothionein in Cadmium-Induced Hepatotoxicity and Nephrotoxicity. *Drug metabolism reviews* 29: 79-102.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Kline, E. R., Mattson, V. R., Pickering, Q. H., Spehar, D. L., and Stephan, C. E. (1987). Effects of Pollution on Freshwater Organisms. *J water pollut control fed* 59: 539-572.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Knepil, J. (A Short Simple Method for the Determination of Paraquat in Plasma. *Clin. Chim. Acta* 79(2): 387-390 1977 (9 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Knobeloch, L. M., Blondin, G. A., Lyford, S. B., and Harkin, J. M. (1990). A Rapid Bioassay for Chemicals That Induce Prooxidant States. *J appl toxicol* 10: 1-6.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Koestler, R. C., Janes, G., and Miller, J. A. (1992). Pesticide Delivery. *Kydonieus, a. (Ed.). Treatise on controlled drug delivery: fundamentals, optimization, applications. Xi+553p. Marcel dekker, inc.: New york, new york, usa Basel, switzerland. Illus. Isbn 0-8247-8519-3.; 0: 491-543.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW,METHODS.
- Kolf-Clauw, M. (1998). Diagnosis of Common Poisoning in Dogs and Cats. *Recueil de medecine veterinaire de l'ecole d'alfort* 174: 36-43.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Komossa, D., Langebartels, C., and Sandermann, H. Jr (1995). Metabolic Processes for Organic Chemicals in Plants. *Trapp, s. And j. C. Mcfarlane (ed.). Plant contamination: modeling and simulation of organic chemical processes. Ix+254p. Crc press, inc.: Boca raton, florida, usa London, england, uk. Isbn 1-56670-078-7.; 0: 69-103.*
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.
- Kookana, R. S. and Aylmore, L. Ag (1993). Retention and Release of Diquat and Paraquat Herbicides in Soils. *Aust j soil res* 31: 97-109.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Kosmatyy, E. S., Chebot'ko, K. A., Galinskaya, V. I., and Strelko, V. V. (Determination of Diquat and Paraquat in

June 2010 ECOTOX run

- Their Mixtures by Thin-Layer Chromatography Using a Specific Silica Gel. *Zh. Anal. Khim.* 29(1): 168-179 1974..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Koudela, S. and Cielešky, V. (Distribution of the Residues of Some Plant Protecting Agents and Growth Regulators During the Production of Foodstuffs. *Acta aliment.* 6(3): 295-296 1977.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Kozler, M. (Paraquat and Diquat. *Prac. Lek.* 30(1-2): 61-64 1978 (29 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Krill, R. M. and Sonzogni, W. C. (1986). Chemical Monitoring of Wisconsin's **Groundwater**. *Am water works assoc j* 78: 70-75.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Kunc, F. (Interactions of **Humus and Xenobiotic Compounds**. Kubat, J. (Ed.). *Developments in agricultural and managed-forest ecology*, 25. *Humus, its structure and role in agriculture and environment; proceedings of the 10th symposium on humus et planta, prague, czechoslovakia, august 19-23, 1991*. ix+201p. Elsevier science publishers b.v.: Amsterdam, Netherlands; (dist. In the USA and Canada by Elsevier Science Publishing Co., Inc.: New York, New York, USA). *Illus. ISBN 0-444-88980-9*; 0 (0). 1992. 199-201.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA,FATE.
- Kurisaki, E. and Nagamori, H. (Studies on Intoxication Due to Herbicides(I). Effects of Paraquat and Diquat on Cultured Human Fetal Cells. *Nippon hoigaku zasshi (jpn. J. Legal med.)* 34(4): 433 1981 (2 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Kurisaki, E. and Sato, H. (Toxicological Studies on Herbicides: Intracorporeal Distribution of Paraquat Dichloride and Diquat Dibromide in Rat. *Nippon hoigaku zasshi (jpn. J. Legal med.)* 33(5): 656 1979.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Kuwatsuka, S. (Adsorption, Movement and Degradation of Herbicides in Soils in Relation to the Phytotoxic Action. *Shokubutsu no kagaku chosetsu (chem. Regul. Plants)* 8(2): 72-83; 1973.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Lam, R. Hf, Brown, J. P., and Fan, A. M. (1994). Chemicals in California Drinking Water Source of Contamination Risk Assessment and Drinking Water Standards. Wang, R. G. M. (Ed.). *Environmental science and pollution control series*, 9. *Water contamination and health: integration of exposure assessment, toxicology, and risk assessment*. xiv+524p. Marcel Dekker, Inc.: New York, New York, USA Basel, Switzerland. *ISBN 0-8247-8922-9*; 0: 15-44.
Chem Codes: Chemical of Concern: DQTBr Code: FATE,HUMAN HEALTH.
- Langeland, K. A. and Warner, J. P. (1986). Persistence of Diquat, Endothall, and Fluridone in Ponds. *J aquat plant manage* 24: 43-46.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Larauche, M., Anton, P. M., Peiro, G., EutamÈ, Ne, H., BuÉ, No, L., and Fioramonti, J. (Role of Capsaicin-Sensitive Afferent Nerves in Different Models of Gastric Inflammation in Rats. *Auton neurosci.* 2004, feb 27; 110(2):89-97. [Autonomic neuroscience : basic & clinical]: *Auton Neurosci.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Lazar, I. M. and Lee, M. L. (1999). Capillary Electrophoresis Time-of-Flight Mass Spectrometry of Paraquat and Diquat Herbicides. *Journal of microcolumn separations* 11: 117-123.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Leary, J. B. (Diquat and Paraquat. *In: analytical methods for pesticides and plant growth regulators*. Zweig, G.,

June 2010 ECOTOX run

- Sherma, j., Eds. (Academic press ny) 10(chapter 30): 321-325 1978 (8 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ledwith, A. (Electron Transport Reactions of Paraquat. In: *biochemical mechanisms of paraquat toxicity*. Autor, a. P., Ed. (New york: academic press): pp. 21-38 1977 (33 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Lee, X. P., Kumazawa, T., Fujishiro, M., Hasegawa, C., Arinobu, T., Seno, H., Ishii, A., and Sato, K. (Determination of Paraquat and Diquat in Human Body Fluids by High-Performance Liquid Chromatography/Tandem Mass Spectrometry. *J mass spectrom.* 2004, oct; 39(10):1147-52. [*Journal of mass spectrometry : jms*]: *J Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Lehoczki, E. and Szigeti, Z. (1990). Diquat Resistance in Different Paraquat Resistant **Conyza-Canadensis** Biotypes. *7th congress of the federation of european societies of plant physiology, umea, sweden, august 5-10, 1990. Physiol plant* 79: **A49**.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Levitt, T. (Determinations of Paraquat in Clinical Practice Using Radioimmunoassay. *Proc. Anal. Div. Chem. Soc.* 16(2): 72-76 1979 (7 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Levitt, T. (Radioimmunoassay for Paraquat. *Lancet* 2(8033): 358 1977.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Lewinsohn, E. and Gressel, J. (Protection Against Paraquat and Diquat Damage by Benzyl Viologen in a Plant Model System. *9th conference of the weed science society of israel, rehovot, israel, dec. 24-25, 1984. Phytoparasitica*; 13 (3-4). 1985 (recd. 1986). 233.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Lindner, S. E., Overmeyer, S., and Schnabl, H. (1992). The Protoplast Test: an Indicator for Herbicides in Water. *Angew bot* 66: 79-84.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Lings, S. (Biocide Lung. An Investigation of Fruit Growers During the Spraying Season . *Ugeskr. Laeg.* 143(19): 1207-1211 1981 (8 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Lisi, P. (1986). Pesticide Contact Dermatitis. *Ann ital dermatol clin sper* 40: 67-81.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Lisi, P., Caraffini, S., and Assalve, D. (1987). Irritation and Sensitization Potential of Pesticides. *Contact dermatitis* 17: 212-218.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Lisi, P., Caraffini, S., and Assalve, D. (1986). A Test Series for Pesticide Dermatitis. *Contact dermatitis* 15: 266-269.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Loehr, R. C. (Potential Pollutants From Agriculture - an Assessment of the Problem and Possible Control Approaches. *Prog. Water technol.* 11(6): **169-193** 1979 (19 references).
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Lubeck, B. M., Williams, L., Mcdonald, K., and Wells, P. G. (1994). Paraquat and Diquat Induced Cataract and Changes in Glutathione Gsh Concentration in Vitro. *Annual meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, may 1-6, 1994. Investigative ophthalmology & visual*

June 2010 ECOTOX run

- science* 35: 1961.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Lukaszewski, T. (1985). The Extraction and Analysis of Quaternary Ammonium Compounds in Biological Material by Gas-Liquid Chromatography and Gas Chromatography-Mass Spectrometry. *J anal toxicol* 9: 101-108.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Luttik, R. and Aldenberg, T. (1997). Extrapolation Factors for Small Samples of Pesticide Toxicity Data: Special Focus on Ld50 Values for Birds and Mammals. *Environmental toxicology and chemistry* 16: 1785-1788.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Lyubenov, Y. A. (Pollution of Waters and Water Basins by Herbicides Used in Bulgaria. *Rastit. Zasht.*21(2): 33-36; 1973.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Ma, R., Sun, S., Hantschel, R., and Beese, F. (1995). Influence of Pesticides and Alfalfa on Soil **Biological Properties**. *Journal of environmental sciences (china)* 7: 198-203.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Maccarthy, P. and others (1990). Humic Substances in Soil and Crop Sciences Selected Readings Symposium Chicago Illinois Usa December 2 1985. *Maccarthy, p., Et al. (Ed.). Humic substances in soil and crop sciences: selected readings* Symposium, chicago, illinois, usa, december 2, 1985. Xvii+281p. American society of agronomy, inc.; Soil science society of america, inc.: Madison, wisconsin, usa. Illus. Isbn 0-89118-104-0.; 0: Xvii+281p.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Maccarthy, P. and Djebbar, K. E. (1986). Removal of Paraquat, Diquat, and Amitrole From Aqueous Solution by Chemically Modified Peat. *J environ qual* 15: 103-107.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Maccarthy, P., Klusman, R. W., Cowling, S. W., and Rice, J. A. (1991). Water Analysis. *Anal chem* 63: 301r-342r.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS .
- Maddy, K. T., Edmiston, S., and Richmond, D. (1990). Illness Injuries and Deaths From Pesticide Exposures in California Usa 1949-1988. *Ware, g. W. (Ed.). Reviews of environmental contamination and toxicology, vol. 114. Ix+171p. Springer-verlag new york inc.: New york, new york, usa Berlin, west germany.* Illus. Isbn 0-387-97207-2; isbn 3-540-97207-2.; 0: 57-124.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Madhun, Y. A. and Freed, V. H. (1990). Impact of Pesticides on the Environment. *Cheng, h. H. (Ed.). Sssa (soil science society of america) book series, no. 2. Pesticides in the soil environment: processes, impacts, and modeling. Xxiii+530p. Soil science society of america, inc.: Madison, wisconsin, usa. Illus. Isbn 0-89118-791-x. 0: 429-466.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Madhun, Y. A., Freed, V. H., and Young, J. L. (1986). Binding of Ionic and Neutral Herbicides by Soil Humic-Acid. *Soil sci soc am j* 50: 319-322.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Madhun, Y. A., Young, J. L., and Freed, V. H. (1986). Binding of Herbicides by Water-Soluble Organic Materials From Soil. *J environ qual* 15: 64-68.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Malik, A. K., Aulakh, J. S., and Kaur, V. (Capillary Electrophoretic Analysis of Organic Pollutants. *Methods mol biol. 2008; 384:93-118. [Methods in molecular biology (clifton, n.j.): Methods Mol Biol.*

June 2010 ECOTOX run

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Maltoni, C. and Selikoff, I. J. (Annals of the New York Academy of Sciences Vol. 534. Living in a Chemical World Occupational and Environmental Significance of Industrial Carcinogens International Conference Bologna Italy October 6-10 1985. *Maltoni, c. And i. J. Selikoff (ed.). Annals of the new york academy of sciences, vol. 534. Living in a chemical world: occupational and environmental significance of industrial carcinogens; international conference, bologna, italy, october 6-10, 1985. Xxv+1045p. New york academy of sciences: new york, new york, usa. Illus. Maps. Isbn 0-89766-465-5(paper); isbn 0-89766-464-7(cloth).; 0 (0). 1988. Xxv+1045p.*

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

Manabe, Jun and Ogata, Takesaburo (1987). Lung fibrosis induced by diquat after intratracheal administration. *Arch. Toxicol.* 60: 427-31.

Chem Codes: Chemical of Concern: DQTBr Code: INHALE.

Manabe, K., Deguchi, H., Miki, M., Yabuki, H., and Itoh, M. (1990). Chemical Control of Weeds in Orchard: Comparison of Postemergence Herbicides in Activity and Their Practical Application. *Kagawa daigaku nogakubu gakujutsu hokoku* 42: 123-130.

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Manabe, S., Ogata, T., and Lin, Y. C. (1989). Damage to Type II Pneumocytes Pnmc Is More Important Than Damage to Endothelial Cells or Type I Pnmc in the Development of Lung Fibrosis. *73rd annual meeting of the federation of american societies for experimental biology, new orleans, louisiana, usa, march 19-23, 1989. Faseb (fed am soc exp biol) j* 3: A327.

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

Manahan, S. E. (1990). Hazardous Waste Chemistry Toxicology and Treatment. *Manahan, s. E. Hazardous waste chemistry, toxicology and treatment. Xiii+378p. Lewis publishers, inc.: Chelsea, michigan, usa. Illus. Isbn 0-87371-209-9. 0: Xiii+378p.*

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

Manoguerra, A. S. (1990). Full Thickness Skin Burns Secondary to an Unusual Exposure to Diquat Dibromide. *J toxicol clin toxicol* 28: 107-110.

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

Manzo, L., Gregotti, C., Di Nucci, A., and Richelmi, P (1979). Toxicology of paraquat and related bipyridyls: biochemical, **clinical and therapeutic aspects.** *Vet. Hum. Toxicol.* 21: 404-10.

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

Maqueda, C., Morillo, E., and Perez Rodriguez JI (1989). Interaction in Aqueous Solution of Certain Pesticides With Fulvic Acids From a Spodosol Soil. *Soil sci* 148: 336-345.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Marco, G. J. and Novak, R. A. (1991). Natural Product Interactions During Aniline Metabolism Including Their Incorporation in Biopolymers. *J agric food chem* 39: 2101-2111.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Marr, J. C. and King, J. B. (1997). A Simple High Performance Liquid Chromatography/Ionspray Tandem Mass Spectrometry Method for the Direct Determination of Paraquat and Diquat in Water. *Rapid communications in mass spectrometry* 11: 479-483.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Masiunas, J. B. (1988). Chemical Desiccation of Onion Sets. *85th annual meeting of the american society for horticultural science and the 33rd annual meeting of the canadian society for horticultural science, east lansing, michigan, usa, august 6-11, 1988. Hortscience* 23: 813.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Mason, R. P. and Takahashi, N. (1986). Free Radical Reactions in Pesticide Metabolism. *192nd american chemical society national meeting, anaheim, calif., Usa, sept. 7-12, 1986. Abstr pap am chem soc* 192: No pagination.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Mastichiadis, C., Kakabakos, S. E., Christofidis, I., Koupparis, M. A., Willetts, C., and Misiako, K. (Simultaneous Determination of Pesticides Using a Four-Band Disposable Optical Capillary Immunosensor. *Anal chem.* 2002, dec 1; 74(23):6064-72. [*Analytical chemistry*]: *Anal Chem.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Mathys, G. (Weed Control and the Environment. *Bull. Oepp organ. Eur. Mediterr. Prot. Plant.* 5(2): 87-100 1975 (12 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matsubara, H. and Obara, Y. (On the Revelation Activities of Blindness of Pyridines, Diazines, as-Triazines, Triazole and Their Related Compounds on Baby Chicks. *Nippon nogei kagaku kaishi (j. Agric. Chem. Soc. Jpn.)* 52(3): 123-127 1978 (7 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matsuda, K., Okamoto, M., Ashida, M., Ishimaru, T., Horiuti, I., Suzuki, K., Yamamoto, S., and Tohyama, K. ([Toxicological Analyses Over the Past Five Years at a Single Institution]. *Rinsho byori.* 2004, oct; 52(10):819-23. [*Rinsho byori. The japanese journal of clinical pathology*]: *Rinsho Byori.*
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matsuda, K., Okamoto, M., Ishihara, S., Ohkawa, M., Ogino, R., Tohyama, K., and Suzuki, K. ([Present Condition of the Poisoning Reason Substance Analysis in an Advanced Critical Care Center]. *Chudoku kenkyu.* 2006, apr; 19(2):133-9. [*Chudoku kenkyu : chudoku kenkyukai jun kikanshi = the japanese journal of toxicology*]: *Chudoku Kenkyu.*
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matsushita, T. and Aoyama, K. (Examination on Cross Sensitivity Between Benomyl and Other Major Pesticides in Hypersensitive Contact Dermatitis. *Nippon noson igakkai zasshi (jpn. J. Rural med.)* 28(3): 464-465 1979.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matsuura, N., Takinami, M., Kurisaki, E., and Satoo, H. (Distribution of Paraquat Dichloride and Diquat Dibromide in the Living Body. *Fukushima igakkai zasshi (fukushima med. J.)* 28(3-4): 212 1978.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Matthess, G. and Isenbeck, M. (1987). Pesticide Behavior in Quaternary Sediments. *Boreas (oslo)* 16: 411-418.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Matthews, H. B. (1994). Excretion and Elimination of Toxicants and Their Metabolites. *Hodgson, e. And p. E. Levi (ed.). Introduction to biochemical toxicology, second edition. Xix+588p. Appleton and lange: east norwalk, connecticut, usa. Isbn 0-8385-4332-4.* 0: 177-192.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- May M. J., Ogilvy J. M. (1992). Desiccation of Linseed With Diquat Applied Through an Air-Assisted Sprayer . *Tests agrochem cultiv* 0: 72-73.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Menzer, R. E. and Nelson, J. O. (Water and Soil Pollutants. *In: toxicology: the basic science of poisons. Doull, j., Klaassen, c. D. And amdur, m. O., Eds. (Macmillan publ. Co. Inc.: Ny): ch25: 632-658 1980 (94 references).*
Chem Codes: Chemical of Concern: DQTBr Code: FATE.

June 2010 ECOTOX run

- Mercer, H. D. (Application of Toxicokinetic Models. *Lloyd, W. E. (Ed.). Safety evaluation of drugs and chemicals; symposium, ames, iowa, usa, june 1-4, 1981. Xviii+487p. Hemisphere publishing corp.: New york, new york, usa; london, england (dist. Outside the usa by mcgraw-hill international book co.: Auckland, new zealand; london, england). Illus. Isbn 0-89116-352-2.; 0 (0). 1986. 17-28.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Mercier, M. (1988). Risk Assessment of Chemicals a Global Approach. *Richardson, m. L. (Ed.). Risk assessment of chemicals in the environment Third european conference, guilford, england, uk, july 11-14, 1988. Xxi+579p. Royal society of chemistry: london, england, uk. Illus. Maps. Isbn 0-85186-118-0.; 0: 73-91.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Messersmith, C. G. and Adkins, S. W. (1995). Integrating Weed-Feeding Insects and Herbicides for Weed Control. *Weed technology* 9: 199-208.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Miles, C. J., Trehy, M. L., and Yost, R. A. (1988). Degradation of N Methylcarbamate and Carbamoyl Oxime Pesticides in Chlorinated Water. *Bull environ contam toxicol* 41: 838-843.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Mileva, M., Zlateva, G., Karabasheva, S., Hadjimitova, V., and Antonov, I. (Effect of He-Ne Laser Treatment on the Level of Lipid Peroxidation Products in Experimental Cataract of Rabbit Eyes. *Methods find exp clin pharmacol. 2000, nov; 22(9):679-81. [Methods and findings in experimental and clinical pharmacology]: Methods Find Exp Clin Pharmacol.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Milman, B. L. (Cluster Ions of Diquat and Paraquat in Electrospray Ionization Mass Spectra and Their Collision-Induced Dissociation Spectra. *Rapid commun mass spectrom. 2003; 17(12):1344-9. [Rapid communications in mass spectrometry : rcm]: Rapid Commun Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Mineau, P., Boersma, D. C., and Collins, B. (1994). An Analysis of Avian Reproduction Studies Submitted for Pesticide Registration. *Ecotoxicology and environmental safety* 29: 304-329.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Minkata, K., Suzuki, O., Kumazawa, T., Asano, M., and Harada, N. (1990). Determination of Diquat in Biological Materials by ESR Spectroscopy. *Z rechtsmed* 103: 599-608.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Minyard, J. P Jr and Roberts, W. E. (1991). State Findings on Pesticide Residues in Foods: 1988 and 1989. *J assoc off anal chem* 74: 438-452.
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Moeschlin, S. (Currently Occurring Toxic Accidents. *Z. Allg. Med. 55(5): 269-276 1979 (1 reference).*
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Moreland, D. E. (1993). Research on Biochemistry of Herbicides an Historical Overview. *International workshop on chloroplast metabolism and its inhibition by herbicides, omiya, japan, august 26-28, 1992. Z natforsch sect c biosci* 48: 121-131.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Morgan, D. P. (Recognition and Management of Pesticide Poisonings. *Natl. Tech. Inform. Serv. Pb-260,381: 61p. 1976.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Mori, H., Sato, T., Nagase, H., Sakai, Y., Yamaguchi, S., Iwata, Y., Hashimoto, R., Yamazaki, F., and Hayata, M.

- (1994). Rapid Screening Method for Pesticides as the Cause Substances to Toxicosis by Tlc. *Japanese journal of toxicology and environmental health* 40: 101-110.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Moriya, M., Ohta, T., Watanabe, K., Miyazawa, T., Kato, K., and Shirasu, Y (1983). Further mutagenicity studies on pesticides in bacterial reversion assay systems. *Mutat. Res., Genet. Toxicol. Test.* 116: 185-216.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Moyano, E., Games, D. E., and Galceran, M. T. (1996). Determination of Quaternary Ammonium Herbicides by Capillary Electrophoresis-Mass Spectrometry. *Rapid communications in mass spectrometry* 10: 1379-1385.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Mueller, B. (On the Determination of Pesticide Residues in Bee Honey. Part Ii. Semiquantitative Thin-Layer Chromatographic Determination of Herbicide Residues in Bee Honey. *Nahrung*17(3): 387-392; 1973.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Mueller, T. C., Moorman, T. B., and Locke, M. A. (1992). Detection of Herbicides Using Fluorescence Spectroscopy. *Weed sci* 40: 270-274.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- NÚ, Ñ, Ez, O., Kim, J. B., Moyano, E., Galceran, M. T., and Terabe, S. (Analysis of the Herbicides Paraquat, Diquat and Difenzoquat in Drinking Water by Micellar Electrokinetic Chromatography Using Sweeping and Cation Selective Exhaustive Injection. *J chromatogr a. 2002, jun 28; 961(1):65-75. [Journal of chromatography. A]: J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- NÚ, Ñ, Ez, O., Moyano, E., and Galceran, M. T. (Capillary Electrophoresis-Mass Spectrometry for the Analysis of Quaternary Ammonium Herbicides. *J chromatogr a. 2002, oct 18; 974(1-2):243-55. [Journal of chromatography. A]: J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- NÚ, Ñ, Ez, O., Moyano, E., and Galceran, M. T. (High Mass Accuracy in-Source Collision-Induced Dissociation Tandem Mass Spectrometry and Multi-Step Mass Spectrometry as Complementary Tools for Fragmentation Studies of Quaternary Ammonium Herbicides. *J mass spectrom. 2004, aug; 39(8):873-83. [Journal of mass spectrometry : jms]: J Mass Spectrom.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- NÚ, Ñ, Ez, O., Moyano, E., and Galceran, M. T. (Solid-Phase Extraction and Sample Stacking-Capillary Electrophoresis for the Determination of Quaternary Ammonium Herbicides in Drinking Water. *J chromatogr a. 2002, feb 8; 946(1-2):275-82. [Journal of chromatography. A]: J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- NÚ, Ñ, Ez, O., Moyano, E., Puignou, L., and Galceran, M. T. (Sample Stacking With Matrix Removal for the Determination of Paraquat, Diquat and Difenzoquat in Water by Capillary Electrophoresis. *J chromatogr a. 2001, apr 6; 912(2):353-61. [Journal of chromatography. A]: J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Nagayama, T., Maki, T., Kan, K., Iida, M., and Nishima, T. (1987). Reverse-Phase Liquid Chromatographic Determination of Paraquat and Diquat in Agricultural Products. *J assoc off anal chem* 70: 1008-1011.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Nakagiri, I. Suzuki K., Shiaku, Y., Kuroda, Y., Takasu, N., and Kohama, A. (1989). Rapid Quantification of Paraquat and Diquat in Serum and Urine Using High-Performance Liquid Chromatography With Automated Sample Pre-Treatment . *J chromatogr* 481: 434-438.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Nakamura, H. (Toxicity and Residual Properties of Pesticides Discussed in the International Codex Standard Schedule. *Shokubutsu boeki (plant prot.)* 32(3): 105-108 1978 (5 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Nakamura, K. (1990). Behavior of Pesticides in Soil and Other Environment. *J pestic sci* 15: 271-282.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Nakamura, T., Kawasaki, N., Tamura, T., and Tanada, S. (In Vitro Adsorption Characteristics of Paraquat and Diquat With Activated Carbon Varying in Particle Size. *Bull environ contam toxicol.* 2000, mar; 64(3):377-82. [Bulletin of environmental contamination and toxicology]: *Bull Environ Contam Toxicol.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Nakamura, T., Kawasaki, N., and Tanada, S. (1998). In Vitro Paraquat and Diquat Removal by Substituted Chitosan Beads. *Proceedings of the 1st international conference of asian society of toxicology, yokohama, japan, june 29-july 2, 1997. Journal of toxicological sciences* 23: 367.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT, IN VITRO.
- Nakayama, H. (Recent Topics on Herbicides. *Shokubutsu no kagaku chosetsu (chem. Reg. Plants)* 11(1): 9-18 1976..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Nangiot, P. (1985). Applications of Polarographic and Voltammetric Analysis in the Fields of Agriculture and Alimentation. *Trends anal chem* 4: 155-161.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Nelson, S. D. and Pearson, P. G. (1990). Covalent and Noncovalent Interactions in Acute Lethal Cell Injury Caused by Chemicals. *George, r. And a. K. Cho (ed.). Annual review of pharmacology and toxicology, vol. 30. Xi+783p. Annual reviews inc.: Palo alto, california, usa. Illus. Isbn 0-8243-0430-6. 0: 169-196.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Neu, I. (Neurologische Symptome Bei Intoxikation. [Neurological Symptoms of Intoxications.]. *Muench. Med. Wochenschr.* 122(4): 1365-1370 1980 (14 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Neururer, H. (The Safety Factor as an Index for Evaluating the Toxicity of Herbicides in Water to Fish. *Schriftenr. Ver. Wasser- boden- lufthyg. Berlin-dahlem* 37: 257-263 1972.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Niederlehner, B. R. and Cairns, J. Jr (1994). Consistency and Sensitivity of Community Level Endpoints in Microcosm Tests. *Journal of aquatic ecosystem health* 3: 93-99.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Nijenhuis, I. and Zinder, S. H. (Characterization of Hydrogenase and Reductive Dehalogenase Activities of Dehalococcoides Ethenogenes Strain 195. *Appl environ microbiol.* 2005, mar; 71(3):1664-7. [Applied and environmental microbiology]: *Appl Environ Microbiol.*
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Nubbe, M. E., Adams, V. D., Watts, R. J., and Clark, Y. R. (1992). Chemical Analysis. *Water environ res* 64: 303-333.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- O'brien, P. J. (1988). Radical Formation During the **Peroxidase Catalyzed Metabolism of Carcinogens and Xenobiotics** the Reactivity of These Radicals With Gsh Dna and Unsaturated Lipid. *Free radical biol med*

June 2010 ECOTOX run

- 4: 169-184.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW,IN VITRO.
- O'malley, M. A. (1997). Skin Reactions to Pesticides. *Occupational medicine (philadelphia)* 12: 327-345.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Oehme, F. W. and Barrett, D. S. (1986). Veterinary Gastrointestinal Toxicology. *Rozman, k. And o. Hanninen (ed.). Gastrointestinal toxicology. Xxiv+606p. Elsevier science publishers b.v.: Amsterdam, netherlands (dist. In the usa and canada by elsevier science publishing co. Inc.: New york, new york, usa). Illus. Isbn 0-444-90424-7. 0: 464-513.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Okonek, S. (Hemoperfusion With Coated Activated Charcoal for Treating Acute Intoxications by Drugs, Pesticides and Fungi. Ii. Pesticides. *Med. Klin. (Munich)* 72(19): 862-866 1977 (31 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Okonek, S., Hofmann, A., and Hennigsen, B. (Efficacy of Gut Lavage, Hemodialysis, and Hemoperfusion in the Therapy of Paraquat or Diquat Intoxication. *Arch. Toxicol.* 36(1): 43-51 1976..
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Okonek Shofman a (On the Question of Extracorporeal Hemodialysis in Diquat Intoxication. *Arch. Toxicol.* 33(3): 251-257 1975.(23 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Okumura, D., Melnicoe, R., Jackson, T., Drefs, C., Maddy, K., and Wells, J. (1991). Pesticide Residues in Food Crops Analyzed by the California Usa Department of Food and Agriculture in 1989. *Ware, g. W. (Ed.). Reviews of environmental contamination and toxicology, vol. 118. Ix+158p. Springer-verlag new york inc.: New york, new york, usa Berlin, germany. Illus. Isbn 0-387-97447-4; isbn 3-540-97447-4.; 0: 87-152.*
Chem Codes: Chemical of Concern: DQTBr Code: FOOD.
- Olson, D. K., Sax, L., Gunderson, P., and Sioris, L. (1991). Pesticide Poisoning Surveillance Through Regional Poison Control Centers. *Am j public health* 81: 750-753.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- PÉ, Rez-Ruiz, T., MartÍ, Nez-Lozano, C., TomÁ, S, V., and Fenoll, J. (Sensitive Determination of Diquat by a Kinetic Method Using the Stopped-Flow Mixing Technique. *Analyst.* 2000, dec; 125(12):2372-5. [The analyst]: Analyst .
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pandey, R. A. and Sandhya, S. (1997). Microbial Degradation of Heterocyclic Bases in a Completely Mixed Activated Sludge Process. *Journal of environmental science and health part a environmental science and engineering & toxic and hazardous substance control* 32: 1325-1338.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pank, F., Hannig, H. J., Hauschild, J., and Zygmunt, B. (Chemische Unkrautbekaempfung in Arzneipflanzenkulturen. 1 Mitteilung: Baldrian (Zaleriana Officinalis L.). [Chemical Weed Control in the Cropping of Medicinal Plants. Part 1: Valerian (Zaleriana Officinalis L.).]. *Pharmazie* 35(2): 115-119 1980 (15 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Parkash, S. (Adsorption of Cationic Pesticides (Diquat and Paraquat) From Aqueous Solution by Activated Carbon. *Carbon*12(5): 483-491 1974.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Parrotta, M. J. (1991). Radioactivity in Water Treatment Wastes: a Usepa Perspective. *Am water works assoc j* 83: 134-140.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Partanen, T., Chaves, J., Wesseling, C., Chaverri, F., Monge, P., Ruepert, C., AragÓ, N, A., Kogevinas, M., Hogstedt, C., and Kauppinen, T. (Workplace Carcinogen and Pesticide Exposures in Costa Rica. *Int j occup environ health*. 2003 apr-jun; 9(2):104-11. [International journal of occupational and environmental health]: *Int J Occup Environ Health*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Pateiro-Moure, M., MartÍ, Nez-Carballo, E., Arias-EstÉ, Vez, M., Simal-GÁ, and Ndara, J. (Determination of Quaternary Ammonium Herbicides in Soils. Comparison of Digestion, Shaking and Microwave-Assisted Extractions. *J chromatogr a*. 2008, jul 4; 1196-1197:110-6. [Journal of chromatography. A]: *J Chromatogr A*.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pateiro-Moure, M., PÉ, Rez-Novo, C., Arias-EstÉ, Vez, M., LÓ, Pez-Periago, E., MartÍ, Nez-Carballo, E., and Simal-Gandara, J. (Influence of Copper on the Adsorption and Desorption of Paraquat, Diquat, and Difenzoquat in Vineyard Acid Soils. *J agric food chem*. 2007, jul 25; 55(15):6219-26. [Journal of agricultural and food chemistry]: *J Agric Food Chem*.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Peachey, R. D. G. (Skin Hazards in Farming. *Br. J. Dermatol*. 105(21): 45-50 1981 (38 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Pedersen, A. G., Pedersen, A., Gregersen, M., and Kaempe, B. (Paraquatforgiftning. [Paraquat Poisoning.]. *Ugeskr. Laeg*. 143(19): 1202-1206 1981 (30 references) .
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- PeirÓ, Am, Zapater, P., Alenda, C., RamÍ, Rez, A., GutiÉ, Rrez, A., PÉ, Rez-Mateo, M., and Such, J. (Hepatotoxicity Related to Paraquat and Diquat Absorption Through Intact Skin. *Dig dis sci*. 2007, nov; 52(11):3282-4. [Digestive diseases and sciences]: *Dig Dis Sci*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Pennington, K. L., Harper, S. S., and Koskinen, W. C. (1991). Interactions of Herbicides With Water-Soluble Soil Organic Matter. *Weed sci* 39: 667-672.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Penttila, P. L. and Siivinen, K. (1996). Control and Intake of Pesticide Residues During 1981-1993 in Finland. *Food additives and contaminants* 13: 609-621.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Pettinati, L. and Perrelli, G. (Pesticides as a Cause of Rural Disease. *Minerva med*. 70(12): 867-872 1979 (14 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Pfaller, W. and Willinger, C. C. (1998). **Animal Models** for the Assessment of Acute Renal Dysfunction and Injury. *De broe, m. E., Et al. (Ed.). Clinical nephrotoxins: renal injury from drugs and chemicals*. Xv+481p. Kluwer academic publishers: dordrecht, netherlands Norwell, massachusetts, usa. Isbn 0-7923-3611-9.; 0: 63-76.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Pickova, J. and Prerovska, I. (Stanoveni Paraquatu a Diquatu V Biologickem Materialu. [Paraquat and Diquat Estimation in Biological Material.]. *Cas. Lek. Cesk*. 120(25): 774-776 1981 (12 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Pitot, H. C. (1990). Altered Hepatic Foci Their Role in Murine Hepatocarcinogenesis. *George, r. And a. K. Cho (ed.). Annual review of pharmacology and toxicology, vol. 30*. Xi+783p. Annual reviews inc.: Palo alto,

June 2010 ECOTOX run

- california, usa. Illus. Isbn 0-8243-0430-6. 0: 465-500.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Plewa, M. J., Gichner, T., Xin, H., Seo, K. Y., Smith, S. R., and Wagner, E. D. (1993). Biochemical and Mutagenic Characterization of Plant-Activated Aromatic Amines. *Environ toxicol chem* 12: 1353-1363.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA,IN VITRO,YEAST.
- Plewa, M. J., Wagner, E. D., Stavreva, D. A., and Gichner, T. (1996). Plant Activation and Its Role in Environmental Mutagenesis and Antimutagenesis. *Mutation research* 350: 163-171.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO,BACTERIA.
- Pontius, F. W. (1997). Future Directions in Water Quality Regulations. *American water works association journal* 89: 40-54.
Chem Codes: Chemical of Concern: DQTBr Code: NO TOX DATA.
- Poovey, A. G. and Skogerboe, J. G. (Using Diquat in Combination With Endothall Under Turbid Water Conditions to Control Hydrilla. *Govt reports announcements & index (gra&i), issue 21, 2004.*
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE .
- Prasad, B. B. and Arora, B. (Trace Analysis of 1,10-Phenanthroline Based Herbicide in Water and Soil Samples. *Ann chim. 2002 nov-dec; 92(11-12):1135-42. [Annali di chimica]: Ann Chim.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pratley, J. E. (1987). Soil Water and Weed Management the Key to Farm Productivity in Southern Australia. *Plant prot q* 2: 21-30.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Pratt, I., Crabtree, H. C., and Rose, M. S. (1978). The Effect of Diquat Dichloride on the Histology and Ultrastructure of Rat Stomach. *Toxicol. Appl. Pharmacol.* 45(1): 259 1978 45: 259.
Chem Codes: Chemical of Concern: DQTBr,DQT Code: ABSTRACT.
- Pratt, I. S., Keeling, P. J., and Smith, L. L. (The Effect of High Concentration of Oxygen on Paraquat and Diquat Toxicity in Rats. *Eur. Soc. Toxicol., Congr.* 21: **154** 1979.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Pratt, I. S., Keeling, P. L., and Smith, L. L. (The Effect of High Concentrations of Oxygen on the Toxicity of Paraquat and Diquat in Rats. *Toxicol. Appl. Pharmacol.* 48(1): **a59** 1979.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Preston, C. (1994). Resistance to Photosystem I Disrupting Herbicides. *Powles, s. B. And j. A. M. Holtum (ed.). Herbicide resistance in plants: biology and biochemistry. Xi+353p. Crc press, inc.: Boca raton, florida, usa* London, england, uk. Isbn 0-87371-713-9.; 0: 61-82.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Price, L. A., Newman, K. J., Clague, A. E., Wilson, P. R., and Wenck, D. J. (1995). Paraquat and Diquat Interference in the Analysis of Creatinine by the Jaffe Reaction. *Pathology* 27: 154-156.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Prigge, E. (Environmental Toxicological Aspects of the Use of Insecticides and Herbicides. A Review. *Deut. Tieraerztl. Wochenschr.* 80(21): 511-513 1973..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Pryde, A. (Biochemical Applications of High-Pressure Liquid Chromatography. *Biochem. Soc. Trans.* 3(6): 864-867 1975..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Puponin, A. I. and Zakharenko, A. V. (1998). Ecological Estimation of Applying Herbicides in Crop Rotations Under Improving Mechanical Treatment of the Soil. *Izvestiya timiryazevskoi sel'skokhozyaistvennoi akademii* 0: 12-25.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Puponin, A. I. and Zakharenko, A. V. (1999). Ecological Evaluation of the Use of Herbicides in Crop Rotation After Improved Tillage of Soddy-Podzolic Soil. *Agrokhimiya* 0: 79-83.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Pyl, W. and Giebelmann, R. (Detection of Chlorocholine Chloride, Diquat and Paraquat. *Arch. Exper. Vet. Med.* 32(4): 601-602 1978 (6 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Randelović, S, Kusić, R, Joksović, D, Bojanić, N, Jandrić, and D ([Acute Poisoning With the Herbicide Diquat]. *Vojnosanit pregl.* 1984 sep-oct; 41(5):420-3. [Vojnosanitetski pregled. Military-medical and pharmaceutical review]: Vojnosanit Pregl.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Rao, P. Sc, Bellin, C. A., and Brusseau, M. L. (1993). Coupling Biodegradation of Organic Chemicals to Sorption and Transport in Soils and Aquifers Paradigms and Paradoxes. *Sssa special publication* 0: 1-26.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Rasquinha, I. A., Wildeman, A. G., and Nazar, R. N. (1988). Studies on the Use of Plant Extracts in Assessing the Effects of Plant Metabolism on the Mutagenicity and Toxicity of Pesticides. *Mutat res* 197: 261-272.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA,BIOLOGICAL TOXICANT.
- Reish, D., Rossi, S. S., Mearns, A. J., Oshida, P. S., and Wilkes, F. G. (Marine and Estuarine Pollution. *J. Water pollut. Control fed.* 51(6): 1477-1517 1979 (385 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Retzinger, E. J Jr and Mallory-Smith, C. (1997). Classification of Herbicides by Site of Action for Weed Resistance Management Strategies. *Weed technology* 11: 384-393.
Chem Codes: Chemical of Concern: DQTBr Code: NO TOX DATA.
- Rial-Otero, R., Cancho-Grande, B., Perez-Lamela, C., Simal-GÁ, Ndara, J., Arias-EstÉ, and Vez, M. (Simultaneous Determination of the Herbicides Diquat and Paraquat in Water. *J chromatogr sci.* 2006, oct; 44(9):539-42. [Journal of chromatographic science]: J Chromatogr Sci.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Rieger, A. L. and Edwards, J. O. (Hydrogen Exchange Between Methylviologen Cation and Basic Deuterium Oxide. *J org chem*; 50 (25). 1985 (recd. 1986). 5102-5104.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Riley, D. (**Assessment** Acceptability and Regulation **of Risk** From Residues in Water. *Walker, a., Et al. (Ed.). British crop protection council monograph, no. 62. Pesticide movement to water; symposium, coventry, england, uk, april 3-5, 1995. Xiv+414p. British crop protection council (bcpc): farnham, england, uk. Isbn 0-948404-85-x; 0 (0). 1995. 335-343.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Ronnen, M., Klin, B., and Suster, S. (1995). Mixed Diquat-Paraquat-Induced Burns. *International journal of dermatology* 34: 23-25.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH .
- Rose, M. S., Smith, L. L., and Wyatt, I. (The Accumulation of Paraquat by the Lung and the Relevance of This to the Treatment of Paraquat Poisoning. *Toxicol. Appl. Pharmacol.* 33(1): 136; 1975.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Rose, M. S., Smith, L. L., and Wyatt, I. (1976). The Relevance of Free Radical Formation in Rat Lung to the Mechanism of Paraquat Toxicity. *Toxicol. Appl. Pharmacol.* 37(1): 105; 1976. 37: 105.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Rose, M. S., Smith, L. L., and Wyatt, I. (Toxicology of Herbicides With Special Reference to the Bipyridiliums. *Ann. Occup. Hyg.* 23(1): 91-94 1980 (11 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Rosen M. B., Rogers J. M., Miller, D. B., Mattscheck, C., and Chernoff, N. (1988). Effects of Chemical-Induced Maternal Toxicity on the Sprague-Dawley Cd Rat . *Twenty-eighth annual meeting of the teratology society, palm beach, florida, usa, june 12-15, 1988. Teratology* 37: 486.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Rubow, T. (**Status for Herbicide Use in Ornamentals Nurseries and Forestry in Denmark.** *Pallutt, w. And h.-H. Schmidt. Mitteilungen aus der biologischen bundesanstalt fuer land- und forstwirtschaft berlin-dahlem, heft 324; (communications from the federal biological institute for agriculture and forestry berlin-dahlem, no. 324); 2nd international symposium on minor uses called by the federal biological research centre for agriculture and forestry, june 11-13, 1996. 145p. Biologische bundesanstalt fuer land- und forstwirtschaft: berlin-dahlem, germany. Isbn 3-8263-3129-x.; 0 (324). 1996. 111-113.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Ruehling, I., Schaefer, H., and Ternes, W. (1999). Hplc Online Reductive Scanning Voltammetric Detection of Diquat, Paraquat and Difenzoquat With Mercury Electrodes. *Fresenius' journal of analytical chemistry* 364: 565-569.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ruha, A. M., Wallace, K., Tanen, D. A., and Patel, P. (Dilute Diquat Death. *Am j emerg med.* 2001, oct; 19(6):527-8. [*The american journal of emergency medicine*]: *Am J Emerg Med.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ruiz, M. J., Lopez-Jaramillo, L., Redondo, M. J. , and Font, G. (1997). Toxicity Assessment of Pesticides Using the Microtox Test Application to Environmental Samples. *Bulletin of environmental contamination and toxicology* 59: 619-625.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Ryan, T. M., Day, R. J., and Cooks, R. G. (Secondary Ion Mass Spectra of Diquaternary Ammonium Salts. *Anal. Chem.* 52(13): 2054-2057 1980 (5 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Rytwo, G., Nir, S., and Margulies, L. (1996). Adsorption and Interactions of Diquat and Paraquat With Montmorillonite. *Soil science society of america journal* 60: 601-610.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Sabapathy, N. N. (1994). Health Surveillance of Pesticide Workers a Manual for Occupational Health Professionals Quaternary Ammonium Compounds. *Toxicology* 91: 93-98.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Saeed, S. A., Wilks, M. F., and Coupe, M. (Acute Diquat Poisoning With Intracerebral Bleeding. *Postgrad med j.* 2001, may; 77(907):329-32. [*Postgraduate medical journal*]: *Postgrad Med J.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Safarpour, M. M., Picard, G. L., Cavalier, T. C., Nejad, H., Zeng, M., Safarpour, D., Souza, M., and Krynetsky, A. J. (1996). Separation and Determination of Pesticide Residues by Capillary Electrophoresis. *211th american*

June 2010 ECOTOX run

- chemical society national meeting, new orleans, louisiana, usa, march 24-28, 1996. Abstracts of papers american chemical society 211: Agro 110.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS .
- Sahai, R. and Chauhan, M. (Pesticidal Pollution. *J. Sci. Ind. Res.* 36(12): 685-694 1978 (208 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Saito, K., Parker, W. B., Gardner, D. E., and Menzel, D. B. (Paraquat Accumulation by Cultured Lung Cells. *Pharmacologist* 21(3): 218 1979.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Samman, P. D. and Johnston, E. N. (Nail Damage Associated With Handling of Paraquat and Diquat. *Br med j.* 1969, mar 29; 1(5647):818-9. [British medical journal]: *Br Med J.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Sanchez-Palacios, A., Perez-Ruiz, T., and Martinez-Lozano, C. (1992). Determination of Diquat in Real Samples by Electron Spin Resonance Spectrometry. *Anal chim acta* 268: 217-223.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Sanchez Sellero I, Lopez-Rivadula, M., Cruz, A., Bermejo, A., and Fernandez, P. (1993). A Sequential Spectrophotometric Method for the Determination of Paraquat and Diquat in Plasma. *Anal lett* 26: 1891-1904.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Santilio, A., Casentini, B., Spagnoli, M., and Dommarco, R. (Analysis of Bipirydylum Herbicides by Capillary Zone Electrophoresis. *J capill electrophor microchip technol.* 2003 jan-apr; 8(1-2):1-5. [Journal of capillary electrophoresis and microchip technology]: *J Capill Electrophor Microchip Technol.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Sawinsky, A. and Pasztor, G. (Exposure Studies on Pilots During Aviochemical Application. *Egeszsegtudomány* 21(1): 88-91 1977..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Schauben, J. L. and Spillane, J. (1991). Poison Emergencies. *Us pharm* 16: 37, 38 , 41-42, 46, 48, 52, 54-56, 58.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Schmitt, S. L. and Autor, A. P. (The Accumulation of Paraquat and Diquat by Isolated Lung Cells. *Pharmacologist* 20(3): 198 1978.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Schnabel, R., Elstner, P., Taglich, H. J., Hubald, M., and Hofmann, P. (1990). Special Events in Handling Poisons in Gdr (East Germany), 1980 to 1988: Environmental Effects. *Z gesamte hyg grenzgeb* 36: 522-525.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Schrader, K. K., De Regt Mq, Duke, S. O., Rainey, P. D., and Tucker, C. S. (1997). Algicidal Selectivity of Several Phytotoxins Towards the Off-Flavor Compound-Producing Cyanobacterium *Oscillatoria* Cf. *Chalybea*. 97th general meeting of the american society for microbiology, miami beach, florida, usa, may 4-8, 1997. Abstracts of the general meeting of the american society for microbiology 97: 395.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Schuster, H. P., Schoenborn, H., Bork, R., and Schuster, C. J. (Acute Xenobiotic Poisonings. Symptomatology and First Aid. *Med. Klin.* 71(26): 1125-1134 1976..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Scott, R. C. and Corrigan, M. A. (1990). The in Vitro Percutaneous Absorption of Diquat: a Species Comparison.

June 2010 ECOTOX run

Toxicol in vitro 4: 137-142.

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

Sechi, G., Agnetti, V., Piredda, M., Canu, M., Deserra, F., Omar, H. A., and Rosati, G. (1992). Acute and Persistent Parkinsonism After Use of Diquat. *Neurology* 42: 261-263.

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

Section of drug administration (Forwarding of the List of Pesticide Accidents for 1972 to the Chief of Hygiene Administration for All the Prefectures, June 12, 1973.). *Yakumu koho (pharmaceut. Gazette)* 8766: 5-7; 1973.

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

Seiber, J. N. (Analytical Chemistry and Pesticide Regulation. Marco, g. J., R. M. Hollingworth and j. R. Plimmer (ed.). *Regulation of agrochemicals: a driving force in their evolution. Xvi+189p. American chemical society: washington, d.c., Usa. Illus. Isbn 0-8412-2085-9(paper); isbn 0-8412-2089-1(cloth).; 0 (0). 1991. 101-120.*

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

Selala, M. I., Coucke, V., Daelemans, F., Musuku, A., Jorens, P., Beaucourt, L., and Schepens, P. Jc (1993). Fire Fighting How Safe Are Firefighters. *Bull environ contam toxicol* 51: 325-332.

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

Selypes, A., Nagymajtenyi, L., and Berencsi, G (1980). Mutagenic and embryotoxic effects of paraquat and diquat. *Bull. Environ. Contam. Toxicol.* 25: 513-17.

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

Senesi, N. (1992). Binding Mechanisms of Pesticides to Soil Humic Substances. *Fourth international workshop on chemical, biological and ecotoxicological behaviour of pesticides in the soil environment, rome, italy, may 29-31, 1991. Sci total environ* 123-124: 63-76.

Chem Codes: Chemical of Concern: DQTBr Code: FATE.

Senesi, N. and Chen, Y. (1989). Interactions of Toxic Organic Chemicals With Humic Substances. Gerstl, z., Et al. (Ed.). *Ecological studies, vol. 73. Toxic organic chemicals in porous media* Second international workshop on behavior of pollutants in porous media, bet dagan, israel, june 1987. Xiv+343p. Springer-verlag: berlin, west germany; new york, new york, usa. Illus. Isbn 3-540-50799-x; isbn 0-387-50799-x.; 0: 37-90.

Chem Codes: Chemical of Concern: DQTBr Code: FATE.

Seto, Y. and Shinohara, T. (1987). Inhibitory Effects of Paraquat and Its Related Compounds on the Acetylcholinesterase Activities of Human Erythrocytes and Electric Eel Electrophorus-Electricus. *Agric biol chem* 51: 2131-2138.

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

Seto, Y. and Shinohara, T. (1988). Structure-Activity Relationship of Reversible Cholinesterase Inhibitors Including Paraquat. *Arch toxicol* 62: 37-40.

Chem Codes: Chemical of Concern: DQTBr Code: MODELING.

Sharma, C. B Sr and Panneerselvam, N. (1990). Genetic Toxicology of Pesticides in Higher Plant Systems. *Crit rev plant sci* 9: 409-442.

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

Sharma, R. P. and Reddy, R. V. (1987). Toxic Effects of Chemicals on the Immune System. Haley, t. J. And w. O. Berndt (ed.). *Handbook of toxicology. Xiv+697p. Hemisphere publishing corp.: New york, new york, usa* Cambridge, england, uk. Illus. Isbn 0-89116-403-0.; 0: 555-591.

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

Sharp, C. W. and Loes Emjr (Chromatographic Parameters of the Bisquaternary Herbicides, Paraquat and Diquat.

June 2010 ECOTOX run

- J. Agr. Food chem.* 22(3): 458-461 1974.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Shinohara, T. and Seto, Y. (1986). In-Vitro Inhibition of Acetylcholinesterase by Paraquat. *Agric biol chem* 50: 255-256.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Shinohara, T. and Seto, Y. (Inhibitory Effects of Paraquat and Its Related Compounds on Acetylcholinesterase Activity of Human Erythrocytes. *Kon, o. L., Et al. (Ed.). Icsu (international council of scientific unions) short reports, vol. 6. Contemporary themes in biochemistry; 4th federation of asian oceanian biochemists congress, singapore, november 30-december 5, 1986. Xxxvii+715p. Cambridge university press: cambridge, england, uk; new york, new york, usa. Illus. Isbn 0-521-33269-9.; 0 (0). 1986 (recd. 1987). 36-37.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Shirai, M., Arishima, K., Masaoka, T., and Akahori, F. (1998). Bipyridylum Herbicide and Ductus Arteriosus II. *Proceedings of the 1st international conference of asian society of toxicology, yokohama, japan, june 29-july 2, 1997. Journal of toxicological sciences* 23: 312.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Shirai, M., Masaoka, T., Motoya, M., Takagi, H., Arishima, K., and Akahori, F. (1996). Constrictive Effects of Indomethacin Paraquat and Diquat on the Ductus Arteriosus in Fetal Rats. *23rd annual meeting of the japanese society of toxicological sciences, fukuoka, japan, july 24-26, 1996. Journal of toxicological sciences* 21: 372.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Sidhu, K. S. (1991). **Standard Setting Processes and Regulations** for Environmental Contaminants in Drinking Water: State Versus Federal Needs and Viewpoints. *Regul toxicol pharmacol* 13: 293-308.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Sidorov, K. K. (1991). Maximum Permissible Doses of Harmful Substances Approved by Ussr Public Health Ministry in 1989. *Gig tr prof zabol* 0: 38-41.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Signorile, G. and Coviello, V. (Evaluation of the Herbicides Use With the Ian 01 Model: a Regional Experience. Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Simon, V. A. and Taylor, A. (1989). High-Sensitivity High-Performance Liquid Chromatographic Analysis of Diquat and Paraquat With Confirmation. *J chromatogr* 479: 153-158.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Simpson, M. Ja (1993). Comparison of **Swathing** and **Desiccation** of Borage (*Borago Officinalis*) and Estimation of Optimum Harvest Stage. *Annals of applied biology* 123: 105-108.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Sims, G. K., O'loughlin, E. J., and Crawford, R. L. (1989). Degradation of Pyridines in the Environment. *Crit rev environ control* 19: 309-340.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Sims, G. K., Radosevich, M., He, X. T., and Traina, S. J. (1991). The Effects of Sorption on the Bioavailability of Pesticides. *Betts, w. B. (Ed.). Springer series in applied biology: biodegradation: natural and synthetic materials. Xii+238p. Springer-verlag: berlin, germany New york, new york, usa. Illus. Isbn 3-540-19705-2; isbn 0-387-19705-2.; 0: 119-137.*
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Sims, G. K., Wolt, J. D., and Lehmann, R. G. (1992). Bioavailability of Sorbed Pesticides and Other Xenobiotic

June 2010 ECOTOX run

- Molecules. Anderson, J. P. E., Et al. (Ed.). *Proceedings of the international symposium on environmental aspects of pesticide microbiology* International Symposium on Environmental Aspects of Pesticide Microbiology, Sigtuna (Sweden), August 17-21, 1992. 337p. Department of microbiology swedish university of agricultural sciences: uppsala, sweden. Illus. Paper. Isbn 91-576-4609-0.; 0: 159-164.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Singh, P. Da and West, M. E. (1985). Acute Pesticide Poisoning in the Caribbean. *West indian med j* 34: 75-83.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Singh, R., Gerritse, R. G., and Aylmore, L. Ag (1990). Adsorption-Desorption Behavior of Selected Pesticides in Some Western Australian Soils. *Aust j soil res* 28: 227-244.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Siou, G., Grolleau, G., and Carpentier-Le Sech, J. (Etude Comparee De L'action Du Diquat Et Du Paraquat Sur La Muqueuse Digestive De La Souris, Du Rat Et Du Lapin. [Comparative Study of Diquat and Paraquat Action on the Digestive Mucosa of the Mouse, Rat and Rabbit.] Au - Lavour Ed. *Ann. Zool. Ecol. Anim.* 11(2): 159-169 1979 (6 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Skogerboe, J., Pennington, T., Hyde, J., and Aguillard, C. (Combining Endothall With Other Herbicides for Improved Control of Hydrilla - a Field Demonstration. *Govt reports announcements & index (gra&i), issue 02, 2005.*
Chem Codes: Chemical of Concern: DQTBr,EDT Code: MIXTURE.
- Skuterud, R., Krok, R., Mollerhagen, P. J., and Steinsholt, P. Y. (1995). Potato Haulm Desiccation: Alternatives to Diquat. *Norsk landbruksforskning* 9: 39-49.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Small, J. W Jr, Richard, D. I., and Osborne, J. A. (1985). **The Effects of Vegetation Removal** by Grass Carp *Ctenopharyngodon Idella* and **Herbicides on the Water Chemistry** of Four Florida Lakes Usa. *Freshwater biol* 15: 587-596.
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.
- Smith, C. V. (1989). Oxidant Stress and Lipid Peroxidation in Cell Death Induced by Drugs or by Ischemia and Reflow. *21st annual meeting of the swiss societies for experimental biology, fribourg, switzerland, march 30-31, 1989. Experientia (basel)* 45: A6.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Smith, C. V., Benzick, A. E., and Reddy, S. L. (1991). Redox Stresses Altered Iron Metabolism and Hepatic Necrosis in Diquat-Treated Fischer-344 Rats. *Meeting of the american pediatric society and the society for pediatric research, new orleans, louisiana, usa, april 29-may 2, 1991. Pediatr res* 29: 114a.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Smith, C. V., Blomkalns, A. L., Rogers, L. K., Tamura, T., Tonoki, H., and Hansen, T. N. (1995). N-Acetyl-P-Benzoquinone Imine Napqi Toxicity in Chinese Hamster Ovary Cho Cells With Genetically Modified Glutathione Reductase Gr Activities. *Experimental biology 95, part ii, atlanta, georgia, usa, april 9-13, 1995. Faseb journal* 9: A694.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Smith, C. V., Gupta, S., Chang, A., and Rogers, L. K. (1992). Redistribution of Hepatic Iron in Rats in Diquat-Induced Oxidant Stress and Hepatic Necrosis in-Vivo. *Meeting of the american pediatric society and the society for pediatric research, baltimore, maryland, usa, may 4-7, 1992. Pediatr res* 31: 117a.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Smith, C. V., Gupta, S., and Rogers, L. K. (1993). Lysosomal Exocytosis of Iron and Protein in Rats and the Effects of

June 2010 ECOTOX run

Acetaminophen Ap and Diquat. *103rd annual meeting of the american pediatric society and 62nd annual meeting of the society for pediatric research, washington, d.c., Usa, may 3-6, 1993. Pediatr res 33: 109a.*
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

Smith, C. V., Hughes, H., Tsokos-Kuhn, J., Lauterburg, B. H., Mcmillin-Wood, J., and Mitchell, J. R. (1985). Oxidant Stress and Cell Death in-Vivo Vs. In-Vitro Results. *69th annual meeting of the federation of american societies for experimental biology, anaheim, calif., Usa, apr. 21-26, 1985. Fed proc 44: 1651.*
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

Smith, D. M. (Health Care of People at Work: Agricultural Workers. *J. Soc. Occup. Med. 27(3): 87-92 1977 (8 references).*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

Smith, E. (Causes of Human Cancer What Is Known and What Is Knowable Evaluation by International Program on Chemical Safety Ipcs Expert Committees. *Maltoni, c. And i. J. Selikoff (ed.). Annals of the new york academy of sciences, vol. 534. Living in a chemical world: occupational and environmental significance of industrial carcinogens; international conference, bologna, italy, october 6-10, 1985. Xxv+1045p. New york academy of sciences: new york, new york, usa. Illus. Maps. Isbn 0-89766-465-5(paper); isbn 0-89766-464-7(cloth).; 0 (0). 1988. 39-43.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

Smith, E. A. and Oehme, F. W. (1991). A Review of Selected Herbicides and Their Toxicities. *Vet hum toxicol 33: 596-608.*
Chem Codes : Chemical of Concern: DQTBr Code: REVIEW.

Smith, E. H. and Logan, D. T. (Invertebrate Behavior as an Indicator of Contaminated Water and Sediments. *Gorsuch, j. W., Et al. (Ed.). Astm (american society for testing and materials) special technical publication, 1216. Environmental toxicology and risk assessment, 2nd volume; symposium on environmental toxicology and risk assessment: aquatic, plant, and terrestrial, pittsburgh, pennsylvania, usa, april 26-30, 1992. Xii+730p. American society for testing and materials (astm): philadelphia, pennsylvania, usa. Isbn 0-8031-1485-0.; 0 (0). 1993. 48-61.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.

Smith, R. J Jr (1991). Integration of Biological Control Agents With Chemical Pesticides. *Tebeest, d. O. (Ed.). Microbial control of weeds. Viii+284p. Routledge, chapman and hall: new york, new york, usa London, england, uk. Illus. Isbn 0-412-01861-6.; 0: 189-208.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.

Soilandpesticidediv (Standards for Withholding Registration of Agricultural Chemicals Established by the Director-General of the Environment Agency. Part Iii. *Jpn. Pestic. Inform. 29: 19-20; 1977.*
Chem Codes: Chemical of Concern: DQTBr Code: NO TOX DATA.

Sokol, R. Z. (1990). Gonadotoxins. *Rajfer, j. Common problems in infertility and impotence. Xvii+390p. Mosby - year book, inc.: St. Louis, missouri, usa London, england, uk. Illus. Isbn 0-8151-6991-4.; 0: 101-105.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

Spalding, D. Jm, Mitchell, J. R., Jaeschke, H., and Smith, C. V. (1989). Diquat-Induced Hepatic Necrosis the Role of Covalent Binding in-Vivo. *73rd annual meeting of the federation of american societies for experimental biology, new orleans, louisiana, usa, march 19-23, 1989. Faseb (fed am soc exp biol) j 3: A741.*
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

Spicer, K. W. and Catling, P. M. (1988). The **Biology of Canadian Weeds** 88. Elodea-Canadensis Michx. *Can j plant sci 68: 1035-1052.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.

June 2010 ECOTOX run

- Stenius, U., Rubin, K., Gullberg, D., and Hogberg, J. (1990). Gamma-Glutamyl Transpeptidase-Positive Rat Hepatocytes Are Protected From Gsh Depletion, Oxidative Stress and Reversible Alterations of Collagen Receptors. *Carcinogenesis (lond)* 11: 69-74.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Stigliani, W. M. (1988). Changes in Valued Capacities of Soils and Sediments as Indicators of Nonlinear and Time-Delayed Environmental Effects. *Environ monit assess* 10: 245-308.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW,MODELING.
- Stimmann, M. W. and Ferguson, M. P. (1990). Progress Report Vice President's Task Force on Pest Control Alternatives Potential Pesticide Use Cancellations in California Usa. *Calif agric* 44: 12-16.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Stransky, Z. (1985). Isotachophoresis of Cationic Herbicides in Waters and Soils. *4th international symposium on isotachophoresis, hradec kralove, czechoslovakia, sept. 2-6, 1984. J chromatogr* 320: 219-232.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Stratton, G. W. (1987). The Effects of Pesticides and Heavy Metals Towards Phototrophic Microorganisms. Hodgson, e. (Ed.). *Reviews in environmental toxicology, 3. Xi+287p. Elsevier science publishers b.v.: Amsterdam, netherlands (dist. In the usa and canada by elsevier science publishing co., Inc.: New york, new york, usa). Illus. Maps. Isbn 0-444-80902-3. 0: 71-148.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Styles, J. A. (Studies on the Effects of Paraquat and Diquat on Cells in Culture. Viability of Macrophages and Fibroblasts Incubated With Paraquat and Diquat. *Brit. J. Exp. Pathol.*55(1): 71-77 1974.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Sun, Y., Cotgreave, I. A., Lindeke, B., and Moldeus, P. (1990). The Protective Effect of Sulfite on Menadione- and Diquat-Induced Cytotoxicity in Isolated Rat Hepatocytes. *Pharmacol toxicol* 66: 393-398.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Surette, D. P. and Mallet, V. N. (Inorganic Salts in the Fluorometric Detection of Pesticides. *J. Chromatogr.* 107(1): 141-148 1975..
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Swanson, S. M., Rickard, C. P., Freemark, K. E., and Macquarrie, P. (1991). Testing for Pesticide Toxicity to Aquatic Plants Recommendations for Test Species. Gorsuch, j. W., Et al. (Ed.). *Astm (american society for testing materials) special technical publications, 1115. Plants for toxicity assessment: second volume Symposium, san francisco, california, usa, april 23-24, 1990. Vii+401p. American society for testing and materials: philadelphia, pennsylvania, usa. Illus. Maps. Isbn 0-8031-1422-2.; 0: 77-98.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Szepietowski, T. and Adamiec, R. ([Kidney Damage After Peroral Poisoning With Herbicides]. *Pol tyg lek.* 1987, nov 30; 42(48):1503-5. [Polski tygodnik lekarski (warsaw, poland : 1960)]: *Pol Tyg Lek.*
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Szigeti, Z., RÁute, Cz, I., LÁute, and Sztity, D. (Paraquat Resistance of Weeds--the Case of Conyza Canadensis (L.) Cronq. *Z naturforsch [c]. 2001 may-jun;* 56(5-6):319-28. [Zeitschrift fur naturforschung. Teil c: biochemie, biophysik, biologie, virologie]: *Z Naturforsch [C].*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Szogyi, M., Cserhati, T., and Szigeti, Z. (1989). Action of Paraquat and Diquat on Proteins and Phospholipids. *Pestic biochem physiol* 34: 240-245 .
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW,IN VITRO.

June 2010 ECOTOX run

- Tachikawa, M., Sawamura, R., and Okada, S. (1989). The Effects of Environmental Chemical Pollutants on Fish Gills. *Eisei kagaku* 35: 397-407.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Tanaka, R. (1986). Induction of Sister-Chromatid Exchange and Chromosomal Aberration in Chinese Hamster Lung Cells by Paraquat and Diquat. *Fourth international congress of toxicology, tokyo, japan, july 21-25, 1986. Toxicol lett (amst)* 31: 214.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Tanen, D. A. and Curry, S. C. (1999). Renal Failure and Corrosive Airway and Gastrointestinal Injury Following Ingestion of Dilute Diquat Solution. *Annual meeting of the north american congress of clinical toxicology, la jolla, california, usa, september 28-october 4, 1999.yjournal Of toxicology clinical toxicology* 37: 640.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Tanen, D. A., Curry, S. C., and Laney, R. F. (Renal Failure and Corrosive Airway and Gastrointestinal Injury After Ingestion of Diluted Diquat Solution. *Ann emerg med.* 1999, oct; 34(4 pt 1):542-5. [*Annals of emergency medicine*]: *Ann Emerg Med.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Tang, J., Sokhansanj, S., Sosulski, F. W., and Slinkard, A. E. (1992). Effect of Harvest Methods on Moisture Content and Quality of Lentil Seed. *Can j plant sci* 72: 451-456.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Taylor, S. L. (1990). Chemical Intoxications. *Cliver, d. O. (Ed.). Food science and technology: a series of monographs: foodborne diseases. Xvii+395p. Academic press, inc.: Troy, missouri, usa London, england, uk. Illus. Isbn 0-12-176558-x.; 0: 171-182.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Terada, H., Miyoshi, T., Imaki, M., Nakamura, T., and Tanada, S. (1994). Studies on in Vitro Paraquat and Diquat Removal by Activated Carbon. *Tokushima journal of experimental medicine* 41: 31-40.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Terada, M. (1986). Recent Advance in Forensic Analysis of Drugs and Toxic Compounds. *Eisei kagaku* 32: 133-152.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Thakar, J. H., Hassan, M. N., and Grimes, J. D. (1987). In-Vitro Effect of Cyperquat Mpp Paraquat and Diquat on Calcium Transport in Mitochondria From Rat Striatum and Liver. *17th annual meeting of the society for neuroscience, new orleans, louisiana, usa, november 16-21, 1987. Soc neurosci abstr* 13: 72.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT,IN VITRO.
- Theodorou, V., Anton, P., Fioramonti, J., and Bueno, L. (1999). Gastric Inflammation and Hypermastocytosis Induced by Chronic Low Level Exposure to a Food Contaminant (Diquat) Do Not Involve Reactive Oxygen Metabolites. *Digestive disease week and the 100th annual meeting of the american gastroenterological association, orlando, florida, usa, may 16-19, 1999.ygastroenterology* 116: A333.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Thiele, V. E., Jastroch, S., and Lange, B. (Results of Analysis of Distribution Patterns of Exposure of People Working in Agrochemical Center With Reference to the Relevant Sections of the Law on Poisonous Substances. *Z. Gesamte hyg. Ihre grenzgeb.* 27(1): 6-8 1981 (4 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Thomas, C. E. and Aust, S. D. (1986). Reductive Release of Iron From Ferritin by Cation Free Radicals of Paraquat and Other Bipryridyls. *J biol chem* 261: 13064-13070.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Thorhauge, F., Hansen, H., and Henriksen, K. (1990). Protection of Chinese Cabbage (*Brassica Pekinensis*) Against Insect Attacks by Covering the Crop With Plastic Net. *Tidsskr planteavl* 94: 307-312.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Toft, P. (1987). Guidelines for Canadian Drinking Water Quality. *Huck, p. M. And p. Toft (ed.). Treatment of drinking water for organic contaminants* Second national conference, edmonton, alberta, canada, april 7-8, 1986. Ix+383p. Pergamon press: new york, new york, usa; oxford, england, uk. Illus. Maps. Isbn 0-08-031876-2.; 0: 7-16.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Tollin, G. (Photochemical Energy Conversion by Membrane-Bound Photoredox Systems. Progress Report, September 1, 1990-May 1, 1991. *Govt reports announcements & index (gra&i), issue 19, 2091.*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Tomita, M., Okuyama, T., and Nigo, Y. (1992). Simultaneous Determination of Paraquat and Diquat in Serum Using Capillary Electrophoresis. *Biomed chromatogr* 6: 91-94.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Torras Casals, C. (Contribucion Al Estudio De Los Efectos Del Diquat Y Paraquat Sobre La Microbiologia Del Suelo. [Study of the Effects of Diquat and Paraquat on Soil Microbiology.]. *Ciencias (madrid)* 43(1): 40-45 1978 (12 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Toth, D. and Tomasovicova, D. (1989). Ellis Horwood Series in Wastewater Technology Microbial Interactions With Chemical Water Pollution. *Toth, d. And d. Tomasovicova. Ellis horwood series in wastewater technology: microbial interactions with chemical water pollution. Xvi+176p. Ellis horwood ltd.: Chichester, england, uk (dist. In the usa and canda by halsted press: new york, new york, usa) Veda: bratislava, czechoslovakia. Illus. Maps. Isbn 0-7458-0195-1; isbn 0-470-21428-7; isbn 80-224-0008-4.; 0: Xvi+176p.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Tribble, D. L., Aw, T. Y., and Jones, D. P. (1987). The Pathophysiological Significance of Lipid Peroxidation in Oxidative Cell Injury. *Hepatology (baltimore)* 7: 377-386.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Tsuchihashi, H., Tatsuno, M., and Otsuki, K. (1988). Simultaneous Determination of Paraquat and Diquat Utilizing Those Oxidation Products by High Performance Liquid Chromatography. *Eisei kagaku* 34: 31-35.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Tuomaa, T. E. (1995). Adverse Effects of Agrochemicals on Reproduction and Health: a Brief Review From the Literature. *Journal of nutritional & environmental medicine (abingdon)* 5: 353-366.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Ukai, S. and Kawase, S. (1985). Paraquat Poisoning and Forensic Chemistry. *Eisei kagaku* 31: 283-297.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Uzarski, R. and Mccorkle, F. (1994). Effects of Diquat on Avian Macrophage Toxicity and Phagocytosis. *Eighty-third annual meeting of the poultry science association, inc., Starkville, mississippi, usa, august 7-12, 1994. Poultry science* 73: 108.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Vaccari, A. and Saba, P. (1995). The Tyramine-Labelled Vesicular Transporter for Dopamine: a Putative Target of Pesticides and Neurotoxins. *European journal of pharmacology environmental toxicology and pharmacology section 4*: 309-314.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

June 2010 ECOTOX run

- Van Emon J, Hammock, B., and Seiber, J. N. (1986). Elisa for Paraquat and Its Application to Exposure Analysis. *Anal chem* 58: 1866-1873.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Van Vleet, T. R. and Schnellmann, R. G. (Toxic Nephropathy: Environmental Chemicals. *Semin nephrol.* 2003, sep; 23(5):500-8. [Seminars in nephrology]: *Semin Nephrol.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Vanholder, R., Colardyn, F., De Reuck, J., Praet, M., Lameire, N., and Ringoir, S. (Diquat Intoxication. Report of Two Cases and Review of the Literature. *Am. J. Med.* 70(6): 1267-1271 1981 (23 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Vengorek, V., Matskevich, S., and Troyanovski, K. H. (The Effect of Pesticides on Farm Crop Yields and on Certain Elements of the Biocenosis of the Fields Treated. *Khim. Sel'sk. Khoz.* 13(6): 467-472 1975..
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Vettorazzi, F. G. (State of the Art of the Toxicological Evaluation Carried Out by the Joint Fao Expert Committee on Pesticide Residues. Iii. Miscellaneous Pesticides Used in Agriculture and Public Health. *Residue rev.* 66: 137-184 1977 (37 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Vincken, W., Huyghens, L., Schandevyl, W., Verbeelen, D., and Corne, L. (Paraquat Poisoning and Colchicine Treatment. *Ann. Int. Med.* 95(3): 391-392 1981 (5 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Vinner, E., Stievenart, M., Humbert, L., Mathieu, D., and Lhermitte, M. (Separation and Quantification of Paraquat and Diquat in Serum and Urine by Capillary Electrophoresis. *Biomed chromatogr.* 2001, aug; 15(5):342-7. [Biomedical chromatography : bmc]: *Biomed Chromatogr.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Vogt, C. and Cotruvo, J. (1987). Drinking **Water Standards** Their Derivation and Meaning. *D'itri, f. M. And l. G. Wolfson. Rural groundwater contamination. Xix+416p. Lewis publishers, inc.: Chelsea, michigan, usa. Illus. Isbn 0-87371-100-9.* 0: 213-224.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Volmer, D., Preiss, A., Levsen, K., and Wuensch, G. (1993). Thermospray Mass Spectral Studies of Pesticides Temperature and Salt Concentration Effects on the Ion Abundances in Thermospray Mass Spectra. *9th montreux symposium on liquid chromatography-mass spectrometry, supercritical fluid chromatography-mass spectrometry, capillary zone electrophoresis-mass spectrometry and tandem mass spectrometry, montreux, switzerland, november 4-6, 1992. J chromatogr* 647: 235-259.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Vulimiri, S. V., Gupta, S., Smith, C. V., Moorthy, B., and Randerath, K. (1994). Effect of Diquat on Levels of Hepatic Endogenous Covalent Dna Modifications I-Compounds of Male Fischer Rats. *85th annual meeting of the american association for cancer research, san francisco, california, usa, april 10-13, 1994. Proceedings of the american association for cancer research annual meeting* 35: 162.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Wafelman, L. S., Rogers, L. K., Awasthi, S., and Smith, C. V. (1994). Exogenous Iron Disturbs Protection Against Reactive Oxygen Species Ros Mediated Hepatic Necrosis in Rats. *105th annual meeting of the american pediatric society and the 64th annual meeting of the society for pediatric research, san diego, california, usa, may 7-11, 1995. Pediatric research* 37: 133a.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Wagner, S. L. (1997). Diagnosis and Treatment of Organophosphate and Carbamate Intoxication. *Occupational*

June 2010 ECOTOX run

- medicine (philadelphia)* 12: 239-249.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Wallace, M. A., Bailey, S., Fukuto, J. M., Valentine, J. S., and Gralla, E. B. (Induction of Phenotypes Resembling Cuzn-Superoxide Dismutase Deletion in Wild-Type Yeast Cells: an in Vivo Assay for the Role of Superoxide in the Toxicity of Redox-Cycling Compounds. *Chem res toxicol.* 2005, aug; 18(8):1279-86. [*Chemical research in toxicology*]: *Chem Res Toxicol.*
Chem Codes: Chemical of Concern: DQTBr Code: YEAST.
- Walter, M. F., Steenhuis, T. S., and Haith, D. A. (Nonpoint Source Pollution Control by Soil and Water Conservation Practices. *Trans. Asae* 22(4): 834-840 1979 (40 references).
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Walter, W. (The Influence of Herbicides on Soil Respiration and Enzyme Activity in Vineyard Soils. *Mitt. Biol. Bundesanst. Land-forstwirt. Berlin-dahlem* 146: 169-171; 1972.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Ware, G. W. (1991). Reviews of Environmental Contamination and Toxicology Vol. 118. Ware, g. W. (Ed.). *Reviews of environmental contamination and toxicology, vol. 118. 1x+158p. Springer-verlag new york inc.: New york, new york, usa* Berlin, germany. Illus. Isbn 0-387-97447-4; isbn 3-540-97447-4.; 0: 1x+158p.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Waring, J. F., Ciurlionis, R., Jolly, R. A., Heindel, M., and Ulrich, R. G. (Microarray Analysis of Hepatotoxins in Vitro Reveals a Correlation Between Gene Expression Profiles and Mechanisms of Toxicity. *Toxicol lett.* 2001, mar 31; 120(1-3):359-68. [*Toxicology letters*]: *Toxicol Lett.*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Weber, J. B., Best, J. A., and Gonese, J. U. (1993). Bioavailability and Bioactivity of Sorbed Organic Chemicals. *Sssa special publication* 0: 153-196.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Weis, J. S. and Weis, P. (1989). Effects of Environmental Pollutants on Early Fish Development. *Rev aquat sci* 1: 45-74.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Weiss Jsev (The Morphological Changes and Survival Effects Observed Among Monkey Kidney Cells, Girardi Heart Cells, and Rainbow Trout Gonad Cells, in Vitro, in Response to Exposure to Various Herbicides. *Diss. Abstr. Int. B* 36(8): 3736; 1976.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Weiss, S. V. and Beckert, W. H. (Herbicide Effects on Cultured Animal Cells. *Abstracts fifteenth annual meeting am. Soc. Cell biol.*, 1975, p. 451a.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Wester, R. C. and Maibach, H. I. (1985). In-Vivo Percutaneous Absorption and Decontamination of Pesticides in Humans. *J toxicol environ health* 16: 25-38.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Who Geneva Switzerland (Pesticide Residues in Food. *Who tech. Rep. Ser.* 612: 35pp. 1977 (36 references).
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Wijekoon, D. and Draper, W. M. (1994). An Isotope Dilution Gc-Ms Method for Determination of Diquat and Paraquat in Formulations Soils and Water. *207th national meeting of the american chemical society, san diego, california, usa, march 13-17, 1994. Abstracts of papers american chemical society* 207: Envr 98.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.

June 2010 ECOTOX run

- Wildeman, Alan G. and Nazar, Ross N (1982). Significance of plant metabolism in the mutagenicity and toxicity of pesticides. *Can. J. Genet. Cytol.* 24: 437-49.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Williams, N. R. (Occupational Voice Disorders Due to Workplace Exposure to Irritants--a Review of the Literature. *Occup med (lond)*. 2002, mar; 52(2):99-101. [*Occupational medicine (oxford, england)*]: *Occup Med (Lond)*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH .
- Williams, P. F., Jarvie, D. R., and Whitehead, A. P. (1986). Diquat Intoxication Treatment by Charcoal Hemoperfusion and Description of a New Method of Diquat Measurement in Plasma. *J toxicol clin toxicol* 24: 11-20.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Willoughby, I. and Dewar, J. (1995). Forestry Commission Field Book No. 8. The Use of Herbicides in the Forest 1995. *Willoughby, i. And j. Dewar. Forestry commission field book, no. 8. The use of herbicides in the forest 1995. Viii+318p. Hmso: forestry commission: farnham, england, uk. Isbn 0-11-710330-6. 0: Viii+318p.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Wirthgen, B. and Raffke, W. (Determination of the Terminal Residues of Herbicides and Their Toxicological Importance. In Foodstuffs. I. General Mechanisms of Action, Toxicology and Metabolism. *Nahrung* 21(5): 443-450 1977 (95 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Witschi, H. (Environmental Agents Altering Lung Biochemistry. *Fed. Proc. Fed. Am. Soc. Exp. Biol.* 36(5): 1629, 1631-1634 1977..
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Wood, T. E., Edgar, H., and Salcedo, J. (Recovery From Inhalation of Diquat Aerosol. *Chest* 70(6): 774-775 1976..
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Worobey, B. L. (1987). Analytical Method for the Simultaneous Determination of Diquat and Paraquat Residues in Potatoes by High-Pressure Liquid Chromatography. *Pestic sci* 18: 245-258.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Worthing, C. R. (1991). The Pesticide Manual a World Compendium 9th Edition. *Worthing, c. R. (Ed.). The pesticide manual: a world compendium, 9th edition. Xlvii+1141p. British crop protection council: farnham, england, uk. Illus. Isbn 0-948404-42-6. 0: Xlvii+1141p.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Wu, W. S. and Tsai, J. L. (1998). Simultaneous Determination of Paraquat and Diquat in Urine by Capillary Electrophoresis. *Kaohsiung journal of medical sciences* 14: 76-80.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Yamamoto, I., Saito, T., Harunari, N., Sato, Y., Kato, H., Nakagawa, Y., Inokuchi, S., Sawada, Y., and Makuuchi, H. (Correlating the Severity of Paraquat Poisoning With Specific Hemodynamic and Oxygen Metabolism Variables. *Crit care med.* 2000, jun; 28(6):1877-83. [*Critical care medicine*]: *Crit Care Med*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Yao, C. Cd and Haag, W. R. (1991). Rate Constants for Direct Reactions of Ozone With Several Drinking Water Contaminants. *Water res* 25: 761-774.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Yoshida, M., Watabiki, T., Tokiyasu, T., and Ishida, N. (1993). Determination of Paraquat and Diquat by Liquid Chromatography-Thermospray Mass Spectrometry. *J chromatogr* 628: 235-239.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Yoshioka, T., Sugimoto, T., Kinoshita, N., Shimazu, T., Hiraide, A., and Kuwagata, Y. (1992). Effects of Concentration Reduction and Partial Replacement of Paraquat by Diquat on Human Toxicity: a Clinical Survey. *Hum exp toxicol* 11: 241-245.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Younos, T. M. and Weigmann, D. L. (1988). Pesticides a Continuing Dilemma. *J water pollut control fed* 60: 1199-1205.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Yu, L. M., Bhuyan, D. K., Lou, M. F., Dickerson, J. E Jr, and Bhuyan, K. C. (1991). Redox-Active Thiols of Rabbit Lens as Altered by Diquat in-Vivo. *Annual spring meeting of the association for research in vision and ophthalmology, sarasota, florida, usa, april 28-may 3, 1991. Invest ophthalmol visual sci* 32: 749.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Yumino, K., Kawakami, I., Tamura, M., Hayashi, T., and Nakamura, M. (Paraquat- and Diquat-Induced Oxygen Radical Generation and Lipid Peroxidation in Rat Brain Microsomes. *J biochem. 2002, apr; 131(4):565-70. [Journal of biochemistry]: J Biochem.*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Zakharenko, V. A. and Mel'nikov, N. N. (1996). Pesticides in Present-Day World. *Agrokhimiya* 0: 100-108.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Zhemchuzhin, S. G. (Metody Analiza Dipiridilovykh Gerbitisidov. [Methods of Analyzing Dipyrldyl Herbicides.]. *Agrokhimiya* (7): 162-168 1979 (70 references).
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Zhemchuzhin, S. G. and Gorobets, R. P. (1990). Immunochemical Methods for Analyzing Pesticides and Growth Regulators. *Agrokhimiya* 0: 149-155.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Zhemchuzhin, S. G. and Momotenko, V. A. (1991). Luminescent Methods of Analysis of Pesticides and Plant Growth Regulators. *Agrokhimiya* 0: 139-151.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Zhemchuzhin, S. G. and Momotenko, V. A. (Spectro Fluorometric Determination of Submicrogram Amounts of 4-Amino- 3,5,6- Trichloro Picolinic Acid (Herbicide Picloram) by Its Reaction With Sulfuric Acid. *Zh. Anal. Khim.* 33(10): 2014-2018 1979 (18 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Zilker, T., Clarmann, M. V., Felgenhauer, N., and Gerber, G. (1987). Comparison of Paraquat and Diquat Intoxications. *Second european symposium on paraquat poisoning, london, england, uk, january 27, 1986. Hum toxicol* 6: 103.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Zougagh, M., Bouabdallah, M., Salghi, R., Hormatallah, A., and Rios, A. (Supercritical Fluid Extraction as an on-Line Clean-up Technique for Rapid Amperometric Screening and Alternative Liquid Chromatography for Confirmation of Paraquat and Diquat in Olive Oil Samples. *J chromatogr a.* 2008, sep 12; 1204(1):56-61. *[Journal of chromatography. A]: J Chromatogr A.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Zweig, G. and Sherma, J. (Analytical Methods for Pesticides and Plant Growth Regulators. Vol. Vi, Gas Chromatographic Analysis. *Academic press, new york, 1972, 765 p.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

Zychlinski, L., Raska-Emerly, P., and Montgomery, M. R. (1988). Influence of Bipyridylum Compounds on Microsomal Mixed-Function Oxidation Activities. *J biochem toxicol* 3: 173-190.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

Excluded Excluded

1969). 1722. More on dipyridylum toxicity: Gage, J. C. (1968). Toxicity of paraquat and diquat aerosols generated by a size-selective cyclone: Effect of particle size distribution. *Br. J. ind. Med.* 25, 304. Gage, J. C. (1968). The action of paraquat and diquat on the respiration of liver cell fractions. *Biochem. J.* 109, 757. 7: 185.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

1969). 1834. Nail damage from paraquat and diquat: Samman, P. D. & Johnston, E. N. M. (1969). Nail damage associated with handling of paraquat and diquat. *Br. med. J.* 1, 818. 7: 687-688.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

1970). 1950. Diquat digested: Oreopoulos, D. G. & McEvoy, J. (1969). Diquat poisoning. *Post-grad. med. J.* 45, 635. 8: 327-328.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

1970). 1984. Filling in the diquat picture: Clark, D. G. & Hurst, E. W. (1970). The toxicity of diquat. *Br. J. ind. Med.* 27, 51. 8: 465.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.

1971). 2161. Diquat cataract caused by free radical? : Pirie, Antoinette & Rees, Jancis R. (1970). Diquat cataract in the rat. *Expl Eye Res.* 9, 198. Pirie, Antoinette, Rees, Jancis R. & Holmberg, N. J. (1970). Diquat cataract: Formation of the free radical and its reaction with constituents of the eye. *Expl Eye Res.* 9, 204. 9: 589-590.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

1972). 2433. Filling in the diquat picture: Sch÷nborn, H., Schuster, H. P. u. K÷ssling, F. K. (1971). Klinik und Morphologie der akuten peroralen Diquatintoxikation (Reglone). *Arch. Tox.* 27, 204. 10: 876-877.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

1974). Tissue distribution of paraquat and diquat : Litchfield, M. H., Daniel, J. W. & Longshaw, Susan (1973). The tissue distribution of the bipyridylum herbicides diquat and paraquat in rats and mice. *Toxicology* 1, 155. 12: 571.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

Abdullah, A. R., Bajet, C. M., Matin, M. A., Nhan, D. D., and Sulaiman, A. H. (1997). Ecotoxicology of Pesticides in the Tropical Paddy Field Ecosystem. *Environ.Toxicol.Chem.* 16: 59-70.
Chem Codes: EcoReference No.: 77547
Chemical of Concern: CYP,MTM,MP,EFX,DQTBr Code: REFS CHECKED/REVIEW.

Adam, Aishah, Smith, Lewis L., and Cohen, Gerald M. (1990-). An evaluation of the redox cycling potencies of paraquat and nitrofurantoin in microsomal and lung slice systems. 40: 1533-1539.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

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.Landbouwwet.Rijksuniv.Gent* 57: 1099-1106.
Chem Codes: Chemical of Concern: PAQT,DQTBr,PPN,PDM,TBC Code: MIXTURE.

Akinyemiju, O. A., Bewaji, F. A., Barrett, P. R. F., Greaves, M. P., Murphy, K. J., Pieterse, A. H., Wade, P. M., and Wallsten, M. (eds) (1990). Chemical Control of Water Hyacinth and Associated Aquatic Weeds at Itoikin Near Lagos.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

June 2010 ECOTOX run

- Akutsu, Hideo, Hazzard, Jo H., Bartsch, Robert G., and Cusanovich, Michael A. (1992-). Reduction kinetics of the four hemes of cytochrome c3 from *Desulfovibrio vulgaris* by flash photolysis. 1140: 144-156.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Alfazema, Louisa N., Howells, Sian, and Perrett, David (2000). Optimised separation of endogenous urinary components using cyclodextrin-modified micellar electrokinetic capillary chromatography. *Electrophoresis* 21: 2503-2508.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ameno, K., Fuke, C., Shirakawa, Y., Ogura, S., Ameno, S., Kiri, T., Kinoshita, H., and Ijiri, I. (1994). Different Distribution of Paraquat and Diquat in Human Poisoning Cases After Ingestion of a Combined Herbicide. *Archives of toxicology* 68: 134-137.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Andersson, Carl Magnus, Hallberg, Anders, Linden, Margareta, Brattsand, Ralph, Moldöus, Peter, and Cotgreave, Ian (1994). Antioxidant activity of some diarylselenides in biological systems. 16: 17-28.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Anelli, Pier Lucio, Slawin, Alexandra M. Z., Fraser Stoddart, J., and Williams, David J. (1988). Solid state structure of the molecular complex between a diazadibenzo-30-crown-10 derivative and diquat. 29: 1573-1574.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Anonymous (Diquat. *Fao plant prod. Prot. Paper 15(spl): 101-115 1979 (27 references).*
Chem Codes: Chemical of Concern: DQTBr,DQT Code: HUMAN HEALTH,REVIEW.
- Anton, Pauline M., Theodorou, Vassilia, Fioramonti, Jean, and Bueno, Lionel (2001). Chronic low-level administration of diquat increases the **nociceptive response** to gastric distension in rats: role of mast cells and tachykinin receptor activation. 92: 219-227.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Atkinson, G. (Effects of Diquat on the Microbiological Organisms in the **Soil of Lakes**. *N. Z. De sci. Ind. Res. Inform. Ser.* 97 529-538; 1973..
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Baldwin, Robert C., Pasi, Aurelio, Macgregor, James T., and Hine, Charles H. (1975). The rates of radical formation from the dipyridylium herbicides paraquat, diquat, and morfamquat in homogenates of rat lung, kidney, and liver: An inhibitory effect of carbon monoxide. 32: 298-304.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Balla, F. and Bekessy, G. (1986). Occurrence of Subacute Reglone-(Diquat-) Poisoning of Cattle and Sheep. *Magyar Allatorvosok Lapja [MAGY. ALLATORV. LAPJA.]*. Vol. 41, no. 11, pp. 675-677. 1986.
Chem Codes: Chemical of Concern: DQTBr Code: INCIDENT.
- Bartell, S. M., Campbell, K. R., Lovelock, C. M., Nair, S. K., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risk from Pesticides Using a Diquat Dibromide Case Study III. Ecological Process Models. *Environ.Toxicol.Chem.* 19: 1441-1453.
Chem Codes: Chemical of Concern: ATZ,DQTBr Code: MODELING.
- Bartell, S. M., Campbell, K. R., Lovelock, C. M. , Nair, S. K., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risks From Pesticides Using a Diquat Dibromide Case Study Iii. Ecological Process Models. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]*. Vol. 19, no. 5, pp. 1441-1453. May 2000.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Bartell, S. M., Lefebvre, G., Aminski, G., Carreau, M., and Campbell, K. R. (1999). An Ecosystem Model for

- Assessing Ecological Risks in Ecological Risks in Quebec Rivers, Lakes, and Reservoirs. *Ecol.Model.* 124: 43-67.
Chem Codes : Chemical of Concern: ATZ,DQTBr Code: MODELING.
- Bartell, S. M., Lefebvre, G., Kaminski, G., Carreau, M., and Campbell, K. R. (1999). An Ecosystem Model for Assessing Ecological Risks in Quebec Rivers, Lakes, and Reservoirs. *Ecological Modelling [Ecol. Model.]*. Vol. 124, no. 1, pp. 43-67. 1 Dec 1999.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Bayne, D. R. and Castro Butter, E. (1974). (Method for the Chemical Control of the Water Lily Eichornia Crassipes(Mart.) In El Salvador).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Bayol-Denizot, Claire, Daval, Jean Luc, Netter, Patrick, and Minn, Alain (2000-). Xenobiotic-mediated production of superoxide by primary cultures of rat cerebral endothelial cells, astrocytes, and neurones. 1497: 115-126 .
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Beligni, M. V. and Lamattina, L. (2002). Nitric Oxide Interferes With Plant Photo-Oxidative Stress by Detoxifying Reactive Oxygen Species. *Plant, Cell and Environment*, 25 (6) pp. 737-748, 2002.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Beligni, M. V. and Lamattina, L. (1999). Nitric Oxide Protects Against Cellular Damage Produced by Methylviologen Herbicides **in Potato Plants**. *Nitric Oxide - Biology and Chemistry*, 3 (3) pp. 199-208, 1999.
Chem Codes: Chemical of Concern: DQTBr,DQT,PAQT Code: IN VITRO .
- Ben-Hayyim, G. and Avron, M. (1970-). Mn²⁺ as electron donor in isolated chloroplasts. 205: 86-94.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Benigni, R., Bignami, M., Carere, A., Comba, P., Conti, G., Conti, L., Crebelli, R., Dogliotti, E., Gualandi, G., Novelletto, A., and Ortali, V. A. (1979). Mutagenicity Studies in Salmonella, Streptomyces, Aspergillus and Unscheduled DNA Synthesis in EUE Cells of Paraquat and Diquat. *Mutat.Res.* 64: 127, 128 (doi: 10.1016/0165-1161(79)90046-3) (ABS).
Chem Codes: Chemical of Concern: PQT,DQT Code: ABSTRACT.
- Berry, C. R. Jr. and Schreck, C. B. (1975). Toxicity of Diquat and Endothall Separately and Combined on Several Species of Aquatic Plants. *Va.J.Sci.* 26: 159 (ABS).
Chem Codes: Chemical of Concern: DQT Code: ABSTRACT.
- Berry, C. R. Jr, Schreck, C. B., and Horn SLVan (1975). Aquatic Macroinvertebrate Response to Field Application of the Combined Herbicides Diquat and Endothall. *Bull. Environ. Contam. Toxicol.* Vol. 14, no. 3, pp. 374-379. 1975.
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Berry, C. R. Jr., Schreck, C. B., and Van Horn, S. L. (1975). Aquatic Macroinvertebrate Response to Field Application of the Combined Herbicides Diquat and Endothall. *Bull.Environ.Contam.Toxicol.* 14: 374-379.
Chem Codes: EcoReference No.: 61011
 Chemical of Concern: EDT,DQTBr Code: MIXTURE.
- Bhuyan, D. K. and Bhuyan, K. C. (1991). Oxy Radicals in the Eye Tissues of Rabbits After Diquat In Vivo. *Free Radic.Res.Commun.* 12/13: 621-627.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Bhuyan, Kailash C., Bhuyan, Durga K., Chiu, William, Malik, Sajid, and Fridovich, Irwin (1991-). Desferal-Mn(III) in the therapy of diquat-induced cataract in rabbit. 288: 525-532.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.

June 2010 ECOTOX run

- Bhuyan, Kailash C., Bhuyan, Durga K., Santos, Octavid, and Podos, Steven M. (1992). Antioxidant and anticataractogenic effects of topical captopril in diquat-induced cataract in rabbits. 12: 251-261.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Biagini, Christine P., Boissel, Elodie, Borde, Francoise, Bender, Virginie E., Bouskila, Michale, Blazy, Fabien, Nicaise, Laetitia, Mignot, Aurelien, Cassio, Doris, and Chevalier, Stephan (2006). Investigation of the hepatotoxicity profile of chemical entities using Liverbeads and WIF-B9 in vitro models. *Toxicol. in Vitro* 20: 1051-1059.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Bignami, M. and Crebelli, R. (1979). A simplified method for the induction of 8-azaguanine resistance in *Salmonella typhimurium*. 3: 169-175.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Bishop, D. G. (1973-). Inhibition of photosynthetic electron transfer by amphotericin B. 54: 816-822.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Blackburn, R. D. and Weldon, L. W. (1963). Results of 3 Years of Testing Diquat as an Aquatic Herbicide in Florida. *Proc.16th Weed Control Conf.* 365 (ABS).
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Bonneh-Barkay, D., Reaney, S. H., Langston, W. J., and Di Monte, D. A. (2005). Redox Cycling of the Herbicide Paraquat in Microglial Cultures. *Molecular Brain Research [Mol. Brain Res.]*. Vol. 134, no. 1, pp. 52-56. 24 Mar 2005.
Chem Codes: Chemical of Concern: DQTBr,DQT,PAQT Code: IN VITRO.
- Boutin, J. A., Kass, G. E. N., and Moldeus, P. (1989). Drug-Induced Hydrogen Peroxide Production in Isolated Rat Hepatocytes. *Toxicology*. Vol. 54, no. 2, pp. 129-137. 1989.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Bowen, S. A., Muir, A. Y., and Dewar, C. T. (1996). Investigations Into Skin Strength in Potatoes: Factors Affecting Skin Adhesion Strength. *Potato Research*, 39 (3) pp. 313-321, 1996 .
Chem Codes: Chemical of Concern: DQTBr Code: MARKET STUDY.
- Bowmer, K. H., Jacobs, S., and Sainty, G. R. (1995). Identification, Biology and Management of *Elodea canadensis*, Hydrocharitaceae. *J.Aquat.Plant Manag.* 33: 13-19.
Chem Codes: Chemical of Concern: DZ,ACL,FDE,PAQT,DQT,HXZ,CuS Code: REFS CHECKED/REVIEW.
- Bravo-Inclan, L. (1994). Chemical and Mechanical Control of Aquatic Macrophytes in a Mexican Reservoir. *Lake and Reservoir Management [LAKE RESERV. MANAGE.]*. Vol. 9, no. 2, 59 p. 1994.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Brienne, St0phane H. R., Boyd, Peter D. W., Schwerdtfeger, Peter, Bowmaker, Graham A., and Cooney, Ralph P. (1995-). Infrared spectra and theoretical studies of bridged diquatery 2,2'-dipyridinium compounds. 356: 81-94.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Brown, Peter M., Turnbull, Gordon, Charman, Sheonaidh, Charlton, Andrew J. A., and Jones, Ainsley (2005). Analytical methods used in the United Kingdom **wildlife incident** investigation scheme for the detection of animal poisoning by pesticides. *J. AOAC Int.* 88: 204-220.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Bruggemann, Rainer, Bucherl, Christian, Pudenz, Stefan, and Steinberg, Christian E. W (1999). Application of the concept of partial order on comparative evaluation of environmental chemicals. *Acta Hydrochim.*

June 2010 ECOTOX run

- Hydrobiol.* 27: 170-178.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Burk, R. F., Lawrence, R. A., Lane, J. M., and Hamm, D. P. (1979). Lipid Peroxidation and Liver Necrosis in Selenium-Deficient Rats Given Diquat and Paraquat. *Gastroenterology* 76: 1109 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Caffrey, J. M., Barrett, P. R. F., Greaves, M. P., Murphy, K. J., Pieterse, M. H., Wade, P. M., and Wallsten, M. (eds) (1990). Problems Relating to the Management of Potamogeton Pectinatus L. In Irish Rivers. *Conference: 8. Int. Symp. on Aquatic Weeds, Uppsala (Sweden), 13-17 Aug 1990.*
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Campbell, K. R., Bartell, S. M., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risks from Pesticides Using a Diquat Dibromide Case Study. II. Approaches Using Quotients and Distributions. *Environ.Toxicol.Chem.* 19: 760.
Chem Codes: EcoReference No.: 47981
Chemical of Concern: DQTBr Code: REFS CHECKED/REVIEW.
- Campbell, K. R., Bartell, S. M., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risks From Pesticides Using a Diquat Dibromide Case Study. Ii. Approaches Using Quotients and Distributions. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 3, pp. 760-774. Mar 2000.*
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Camper, N. D., Shively, J. M., and Clemson Univ., Water Resour.Res.Inst., SC, US (1974). Effects of Selected Herbicides on Bacterial Populations in Fresh and Treated Water.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Carleton, T. C., Gallagher, E. P., DiGiulio, R. T., and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Diquat Induced Oxidative Stress in Channel Catfish (Ictalurus Punctatus).
Chem Codes: Chemical of Concern: DQTBr,DQT Code: ABSTRACT.
- Carter, L. (1971). Investigations of the Toxicity of Diquat to Freshwater Fish and Molluscs. *Rep.No.TMJ705A, ICI Mar.Res.Stn., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Cedergreen, N., Kamper, A., and Streibig, J. C. (2006). Is Prochloraz a Potent Synergist Across Aquatic Species? A Study on Bacteria, Daphnia, Algae and Higher Plants. *Aquatic Toxicology [Aquat. Toxicol.]. Vol. 78, no. 3, pp. 243-252. 30 Jun 2006.*
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Cedergreen, Nina, Christensen, Anne M., Kamper, Anja, Kudsk, Per, Mathiassen, Solvejg K., Streibig, Jens C., and Soerensen, Helle (2008). A review of independent action compared to concentration addition as reference models for mixtures of compounds with different molecular target sites. *Environ. Toxicol. Chem.* 27: 1621-1632.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING, REVIEW.
- Cedergreen, Nina, Kudsk, Per, Mathiassen, Solvejg K., and Streibig, Jens C (2007). Combination effects of herbicides on plants and algae: do species and test systems matter? *Pest Manage. Sci.* 63: 282-295.
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Charles, Jeffrey M., bou-Donia, Mohamed B., and Menzel, Daniel B. (1978). Absorption of paraquat and diquat from the airways of the perfused rat lung. 9: 59-67.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Chat, Mireille, Bayol-Denizot, Claire, Suleman, Grace, Roux, Franyoise, and Minn, Alain (1997-). DRUG

METABOLIZING ENZYME ACTIVITIES AND SUPEROXIDE FORMATION IN PRIMARY AND IMMORTALIZED RAT BRAIN ENDOTHELIAL CELLS. 62: 151-163.

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

Chiovarou, E. D. and Siewicki, T. C. (2008). Comparison of Storm Intensity and Application Timing on Modeled Transport and Fate of Six Contaminants. *Sci.Total Environ.* 389: 87-100.

Chem Codes: Chemical of Concern: ATZ,FPN,CBL,FA,DQTBr,IMC Code: FATE/MODELING.

Chiovarou, E. D. and Siewicki, T. C. (2008). Comparison of Storm Intensity and Application Timing on Modeled Transport and Fate of Six Contaminants. *Science of the Total Environment [Sci. Total Environ.]. Vol. 389, no. 1, pp. 87-100. 15 Jan 2008.*

Chem Codes: Chemical of Concern: DQTBr Code: FATE.

Chishiro Takao (2000). Clinical Aspects of Accidental Poisoning With Paraquat. *Asian Medical Journal [Asian Med. J.]. Vol. 43, no. 3, pp. 114-120. Mar 2000.*

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

Choiseul, J. W., Allen, L., and Carnegie, S. F. (2001). The Role of Stem Inoculum in the Transmission of Fusarium Sulphureum to Potato Tubers. *Potato Research, 44 (2) pp. 165-172, 2001.*

Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.

Coats, G. E., Funderburk, H. H. Jr., Lawrence, J. M., and Davis, D. E. (1964). Persistence of Diquat and Paraquat in Pools and Ponds. *Proc.17th Weed Control Conf.* 308-315.

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: FATE/MIXTURE.

Coats, G. E., Funderburk, H. H. Jr., Lawrence, J. M., and Davis, D. E. (1965). Studies on Translocation, Degradation, and Factors Affecting the Persistence of Diquat and Paraquat. *Proc.18th Weed Control Conf.* 614 (ABS).

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.

Cobb, L. M. and Grimshaw, P. (1979). Acute Toxicity of Oral Diquat (1,1'-Ethylene-2,2'- Bipyridinium) in Cynomolgus Monkeys. *Toxicol.Appl.Pharmacol.* 51: 277-282.

Chem Codes: Chemical of Concern: DQTBr Code: MONKEY.

Cobb, Leon M. and Grimshaw, Pat (1979). Acute toxicity of oral diquat (1,1'-ethylene-2,2'-bipyridinium) in cynomolgus monkeys. 51: 277-282.

Chem Codes: Chemical of Concern: DQTBr Code: MONKEY.

Coe, Kevin J., Jia, Yankai, Ho, Han Kiat, Rademacher, Peter, Bammler, Theo K., Beyer, Richard P., Farin, Frederico M., Woodke, Libby, Plymate, Stephen R., Fausto, Nelson, and Nelson, Sidney D (2007). Comparison of the Cytotoxicity of the Nitroaromatic Drug Flutamide to Its Cyano Analogue in the Hepatocyte Cell Line TAMH: Evidence for Complex I Inhibition and Mitochondrial Dysfunction Using Toxicogenomic Screening. *Chem. Res. Toxicol.* 20: 1277-1290.

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

Cohen, E. S. (1994). 14.P.34 Polarographic methods for determination microconcentrations of paraquat and diquat in the air. 25: 175.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Cornu, Marie Christine, Moore, Gregory Adam, Nakagawa, Yoshio, and Moldθus, Peter (1993-). Ascorbic acid uptake by isolated rat hepatocytes: Stimulatory effect of diquat, a redox cycling compound. 46: 1333-1338.

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

Costantini, Paola, Petronilli, Valeria, Colonna, Raffaele, and Bernardi, Paolo (1995-). On the effects of paraquat on isolated mitochondria. Evidence that paraquat causes opening of the cyclosporin A-sensitive permeability transition pore synergistically with nitric oxide. 99: 77-88.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQTBr,PAQT Code: IN VITRO.
- Cotgreave, Ian A., Moldθus, Peter, Engman, Lars, and Hallberg, Anders (1991-). The correlation of the oxidation potentials of structurally related dibenzo[1,4]dichalcogenines to their antioxidance capacity in biological systems undergoing free radical-induced lipid peroxidation. 42: 1481-1485.
Chem Codes: Chemical of Concern: DQTBr,DQT Code: IN VITRO.
- Cotgreave, Ian A., Sandy, Martha S., Berggren, Margareta, Moldθus, Peter W., and Smith, Martyn T. (1987-). N-acetylcysteine and glutathione-dependent **protective effect of PZ51 (Ebselen) against diquat-induced cytotoxicity** in isolated hepatocytes. 36: 2899-2904.
Chem Codes: Chemical of Concern: DQTBr,DQT Code: IN VITRO.
- Crabtree, H. C. and Rose, M. S. (1978). Effect of Diquat Dichloride on Gastric Emptying and Fluid Accumulation in the Rat Stomach. *Toxicol.Appl.Pharmacol.* 45: 259-260 (ABS).
Chem Codes: Chemical of Concern: DQT Code: ABSTRACT.
- Curcic, Marijana and Djukic, Mirjana (2006-). Nitric oxide in diquat neurotoxicity. 164: S117-S118 .
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Curcic, Marijana, Djukic, Mirjana, Ninkovic, Milica, Vasiljevic, Ivana, and Jovanovic, Marina (2007-). Differences in nitric oxide release in CNS caused by paraquat and diquat. 172: S41.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Czerczak, Slawomir and Kupczewska, Malgorzata (2002). Assignment of skin notation for maximum allowable concentration (MAC) list in Poland. *Appl. Occup. Environ. Hyg.* 17: 187-199.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Daly, R. W., Funderburk, H. H. Jr., and Lawrence, J. M. (1968). Persistence of Diquat, Paraquat, and 2,4-DBEE when Used for Eurasian Watermilfoil (*Myriophyllum spicatum* L.) Control. *Proc.South.Weed Conf.* 21: 299 (ABS).
Chem Codes: Chemical of Concern: PAQT,24DXYBEE,DQTBr Code: ABSTRACT.
- Dawson, F. H. (1996). *Crassula helmsii*: Attempts at Elimination Using Herbicides. *Hydrobiologia* 340: 241-245.
Chem Codes: Chemical of Concern: GYP,DQTBr Code: NO CONC.
- De Jong, F. M. W. and Udo de Haes, H. A. (2001). Development of a Field Bioassay for the Side-Effects of Herbicides on Vascular Plants Using Brassica Napus and Poa Annua. *Environmental Toxicology*, 16 (5) pp. 397-407, 2001.
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.
- de Keizer, A. and Fokkink, L. G. J. (1990). Specific adsorption of organic cations at the silver iodide--electrolyte interface. 51: 323-337.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- de Paz, Josθ M. and Rubio, Josθ L. (2006-). Application of a GIS-AF/RF model to assess the risk of herbicide leaching in a citrus-growing area of the Valencia Community, Spain. 371: 44-54.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- de Zwart, Dick (2005). Ecological effects of pesticide use in the Netherlands: Modeled and **observed effects in the field ditch**. *Integr. Environ. Assess. Manage.* 1: 123-134 .
Chem Codes: Chemical of Concern: DQTBr Code: MODELING,SURVEY.
- DeGray, Janice A., Rao, D. N. R., and Mason, Ronald P. (1991-). Reduction of paraquat and related bipyridylum compounds to free radical metabolites by rat hepatocytes. 289: 145-152.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO,NO EFFECT.

June 2010 ECOTOX run

- Diaz, T. G., Meras, I. D., and Franco, M. F. A. (2002). Stopped Flow Kinetic-Spectrophotometric Determination of Diquat in Waters. *Water Research [Water Res.]*. Vol. 36, no. 3, pp. 783-787. Feb 2002.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Dionne, E. (1987). Acute Toxicity of Diquat Concentrate to Eastern Oysters (*Crassostrea virginica*). *Rep.No.S-2911, Chevron Chem.Co., Richmond, CA*.
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Dodge, A. D., Harris, N., and Baldwin, B. C. (1970). The Mode of Action of Paraquat and Diquat. *Biochem.J.* 118: 43-44 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Draxl, R., Neugebauer-Buechler, K. E., Zieris, F. J., Huber, W., Hill, I. R., Heimbach, F., Leeuwangh, P., and Mattiessen, P. (eds) (1994). Response of Aquatic Outdoor Microcosms of the "Split-Pond" Type to Chemical Contamination.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Duff, Tracey, Carter, Simon, Feldman, Gemma, McEwan, Gordon, Pfaller, Walter, Rhodes, Pauline, Ryan, Michael, and Hawksworth, Gabrielle (2002). Transepithelial resistance and inulin permeability as endpoints in in vitro nephrotoxicity testing. *ATLA, Altern. Lab. Anim.* 30: 53-59.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Dunn, A. W., Rodgers, J. H., Burns, E., Bates, A. L., and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Fate and Persistence of Herbicides in Guntersville Reservoir, Al. *Conference: 13. Annu. Meet. Society of Environmental Toxicology and Chemistry (SETAC 92), Cincinnati (USA), 8-12 Nov 1992*.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Dunn, Allison M (2004). A relative risk ranking of pesticides used in Prince Edward Island.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Edwards, P. J. and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Impact of Accidental Overspraying of **Small Wetlands With Diquat**. *Conference: 13. Annu. Meet. Society of Environmental Toxicology and Chemistry (SETAC 92), Cincinnati (USA), 8-12 Nov 1992*.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Eisenman, A., Armali, Z., Raikhlin-Eisenkraft, B., Bentur, L., Bentur, Y., Guralnik, L., and Enat, R. (1998). Nitric Oxide Inhalation for Paraquat-Induced Lung Injury. *Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]*. Vol. 36, no. 6, pp. 575-584. 1998.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- El-Deen, M. A. S. (1991). Physiological and Biochemical Changes in Grass Carp *Stenopharyngodon idella* Exposed to Diquat. *Ph.D.Thesis, Auburn Univ.* 117 p. (Publ As 7784,16083) (UMI# 9224054).
Chem Codes: Chemical of Concern: DQTBr Code: PUBL AS.
- Elton, R. C., Garle, M. J., and Fry, J. R. (2000). Glutathione Depletion in a Liver Microsomal Assay as an in Vitro Biomarker for Reactive Metabolite Formation. *Biomarkers [Biomarkers]*. Vol. 5, no. 4, pp. 285-294. Jul 2000.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Epel, B. L. and Neumann, J. (1973-). The mechanism of the oxidation of ascorbate and Mn²⁺ by chloroplasts: The role of the radical superoxide. 325: 520-529.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fader, P. G., Rodgers, J. H., and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992).

June 2010 ECOTOX run

- Cytoplasmic Ion Release From Aquatic Plants as an Indicator of Membrane Injury. *Conference: 13. Annu. Meet. Society of Environmental Toxicology and Chemistry (SETAC 92), Cincinnati (USA), 8-12 Nov 1992.*
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Fahrig, R. (1974). Comparative Mutagenicity Studies with Pesticides. *IARC Sci.Publ.* 10: 161-181.
Chem Codes: EcoReference No.: 76858
Chemical of Concern:
MCPB,CBL,SZ,DQTBr,MP,Ziram,DMT,PCP,Folpet,Captan,MCPA,MLN,DZ,AND,EN,ES Code:
REVIEW.
- Farzaneh, Parivash, Allameh, Abdolamir, Pratt, Steven, Moore, Nicholas, Travis, Lucy, Gottschalg, Elke, Kind, Clive, and Fry, Jeffrey (2005). Increased heat shock protein 70 expression following toxicant-mediated cytotoxicity: a ubiquitous marker of toxicant exposure? *ATLA, Altern. Lab. Anim.* 33: 105-110.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fernandez, Y., Anglade, F., and Mitjavila, S. (1997). Potentiation of Iron-Induced Lipid Peroxidation by a Series of Bipyridyls in Relation to Their Ability to Reduce Iron. *Toxicology Letters [TOXICOL. LETT.]*. Vol. 93, no. 1, pp. 65-71. Sep 1997.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Folmar, L. C. (1977). Acrolein, Dalapon, Dichlobenil, Diquat, and Endothal: Bibliography of Toxicity to Aquatic Organisms. *Technical Paper No.88, U.S.Fish and Wildlife Service, Washington, DC.*
Chem Codes: EcoReference No.: 49249
Chemical of Concern: EDT,ACL,DBN,DQTBr Code: REFS CHECKED/REVIEW.
- Freeman Jennifer L and Rayburn ALane (2006). Aquatic Herbicides and Herbicide Contaminants: in Vitro Cytotoxicity and Cell-Cycle Analysis. *Environmental Toxicology [Environ. Toxicol.]*. Vol. 21, no. 3, pp. 256-263. 2006.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fu, Y., Sies, H., and Lei, X. G. (2001). Opposite Roles of Selenium-Dependent Glutathione Peroxidase-1 in Superoxide Generator Diquat- and Peroxynitrite-Induced Apoptosis and Signaling. *J.Biol.Chem.* 276: 43004-43009.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fu, Y., Sies, H., and Lei, X. G. (2001). Opposite Roles of Selenium-Dependent Glutathione Peroxidase-1 in Superoxide Generator Diquat- and Peroxynitrite-Induced Apoptosis and Signaling. *J.Biol.Chem.* 276: 43004-43009.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fu Yangxin, McCormick, C. C., Roneker, C., and Lei, X. i. n. Gen* (2001). Lipopolysaccharide and Interferon-Gamma -Induced Nitric Oxide Production and Protein Oxidation in Mouse Peritoneal Macrophages Are Affected by Glutathione Peroxidase-1 Gene Knockout. *Free Radical Biology & Medicine [Free Radical Biol. Med.]*. Vol. 31, no. 4, pp. 450-459. 15 Aug 2001.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fujita, Yoshihiko and Myers, Jack (1965). The 2,6-dichlorophenol indophenol-Hill reaction by a **cell-free preparation of Anabaena cylindrica**. 112: 506-511.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fujita, Yoshihiko and Myers, Jack (1965). Light-induced cytochrome c redox reactions by a **cell-free preparation of Anabaena cylindrica**. 112: 519-523.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Fuke, C., Ameno, K., Ameno, S., Kinoshita, H., and Ijiri, I (1996). Detection of two metabolites of diquat in urine and

June 2010 ECOTOX run

- serum of poisoned patients after ingestion of a combined herbicide of paraquat and diquat. *Arch. Toxicol.* 70: 504-507.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Fuke, C., Ameno, K., Ameno, S., Kiriu, T., Shinohara, T., Sogo, K., and Ijiri, I. (1992). A Rapid, Simultaneous Determination of Paraquat and Diquat in Serum and Urine Using Second-Derivative Spectroscopy. *Journal of Analytical Toxicology [J. ANAL. TOXICOL.]*. Vol. 16, no. 4, pp. 214-216. 1992.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Fuke, C., Arao, T., Morinaga, Y., Takaesu, H., Ameno, K., and Miyazaki, T. (Analysis of Paraquat, Diquat and Two Diquat Metabolites in Biological Materials by High-Performance Liquid Chromatography. *Leg med (tokyo)*. 2002, sep; 4(3):156-63. [*Legal medicine (tokyo, japan)*]: *Leg Med (Tokyo)*.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Gaeta, Carmine, Caruso, Tonino, Mincolelli, Milena, Troisi, Francesco, Vasca, Ermanno, and Neri, Placido (2008-). p-Sulfonatocalix[7]arene: synthesis, protolysis, and binding ability. 64: 5370-5378.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Gamar, Y. and Mustafa, M. A. (Adsorption and Desorption of Diquat 2+ on Arid-Zone Soils. *Soil. Sci.* 119(4): 2290-295 1975..
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- George, S., Riley, C., McEvoy, J., and Wright, J. (2000). Development of a fish in vitro cell culture model to investigate oxidative stress and its modulation by dietary vitamin E. 50: 541-544.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Georghiou, G. P., Black, A. L., Krieger, R. I., and Fukuto, T. R. (1974). Joint Action of Diquat and Related One-Electron Transfer Agents with Propoxur and Fenthion Against Mosquito Larvae. *J.Econ.Entomol.* 67: 184-186.
Chem Codes: Chemical of Concern: PPX,DQT,PAQT Code: NO DURATION.
- Giudice, Ben D., Massoudieh, Arash, Huang, Xinjiang, and Young, Thomas M (2008). A Stochastic Simulation Procedure for Selecting Herbicides with Minimum Environmental Impact. *Environ. Sci. Technol.* 42: 354-360.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Goeltenboth, F. (1978). Der Einfluss von Paraquat und Diquat auf die Mitoseaktivitat von Eichhornia crassipes (Mart.) Solms. In: *Proc.EWRS 5th Symp.on Aquat.Weeds* 383-390 (GER) (ENG ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: NON-ENGLISH.
- González-Pradas, E., Villafranca-Sánchez, M., Del Rey-Bueno, F., Ureña-Amate, M. D., Socas-Viciano, M., and Fernández-Pérez, M. (1999). Removal of diquat and deisopropylatrazine from water by montmorillonite-(Ce or Zr) phosphate crosslinked compounds. 39: 455-466.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Green, R. L., Klein, G. J., Merino, F., and Gibeault, V. (2004). Influence of Fall-Applied Treatments on Spring Transition of an Overseeded Bermudagrass Green. *HortScience*, 39 (3) pp. 611-614, 2004.
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.
- Grey, L., Nguyen, B., and Yang, P. (Liquid Chromatography-Electrospray Ionization Isotope Dilution Mass Spectrometry Analysis of Paraquat and Diquat Using Conventional and Multilayer Solid-Phase Extraction Cartridges. *J chromatogr a*. 2002, jun 7; 958(1-2):25-33. [*Journal of chromatography. A*]: *J Chromatogr A*.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Gueguen, A., Goldberg, M., Bonenfant, S., and Martin, J. C (2004). Using a representative sample of workers for constructing the SUMEX French general population based job-exposure matrix. *Occup. Environ. Med.* 61: 586-593.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Guenther, J. F., Wiese, M. V., Pavlista, A. D., Sieczka, J. B., and Wyman, J. (1999). Assessment of Pesticide Use in the U.s. Potato Industry. *American Journal of Potato Research*, 76 (1) pp. 25-29, 1999.
Chem Codes: Chemical of Concern: DQTBr Code: MARKET STUDY.
- Gunter, Maxwell J. and Johnston, Martin R. (1992-). Porphyrin-based molecular tweezers as a receptor for bipyridinium guests. 33: 1771-1774.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Gutierrez, E., Arreguin, F., Huerto, R., and Saldana, P. (1994). Aquatic Weed Control. *International Journal of Water Resources Development [INT. J. WATER RESOUR. DEV.]*. Vol. 10, no. 3, pp. 291-312. 1994.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Haag, K. H. and Buckingham, G. R. (1991). Effects of Herbicides and Microbial Insecticides on the Insects of Aquatic Plants. *J.Aquat.Plant Manag.* 29: 55-57.
Chem Codes: Chemical of Concern: DQTBr,Cu,EDT,FDE Code: NO DURATION.
- Haesaert, G., Derycke, V., Deroo, B., LatrÉ, and J (Effect of Different Chemical and Mechanical Defoliation Methods on the Skin Quality of Potatoes. *Commun agric appl biol sci.* 2004; 69(4):757-63.
[Communications in agricultural and applied biological sciences]: *Commun Agric Appl Biol Sci.*
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Hantson, P., Wallemacq, P., and Mahieu, P. (2000). A Case of Fatal Diquat Poisoning: Toxicokinetic Data and Autopsy Findings. *Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]*. Vol. 38, no. 2, pp. 149-152. 2000.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Hara, Shuuji, Sasaki, Noriaki, Takase, Daizi, Shiotsuka, Shouichi, Ogata, Kentaro, Futagami, Koujiro, and Tamura, Kazuo (2007). Rapid and sensitive HPLC method for the simultaneous determination of paraquat and diquat in human serum. *Anal. Sci.* 23: 523-526.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Hata, S., Shirata, K., and Takagishi, H. (1986). Degradation of Paraquat and Diquat by the Yeast *Lipomyces Starkeyi*. *Journal of General and Applied Microbiology [J. GEN. APPL. MICROBIOL.]*. Vol. 32, no. 3, pp. 193-202. 1986.
Chem Codes: Chemical of Concern: DQTBr Code: YEAST.
- Hayworth, J., David, N., and Shonkoff, S. B. (2004). Aquatic Pesticide Monitoring Program: Phase 2 (2003) Bioassessment of Waterbodies Treated with Aquatic Pesticides. *Technical Report, SFEI Contribution #117, San Francisco Estuary Institute, Oakland, CA* 50 p.
Chem Codes: Chemical of Concern: 24D,CuS,DQTBr,FDE,GYP,MTPN,TPR Code: NO CONC.
- Hayworth, J., David, N., and Shonkoff, S. B. (2004). Aquatic Pesticide Monitoring Program: Phase 2 (2003) Bioassessment of Waterbodies Treated With Aquatic Pesticides. *Technical Report, SFEI Contribution #117, San Francisco Estuary Institute, Oakland, CA* 50 p.
Chem Codes: Chemical of Concern: 24D,CuS,DQTBr,FDE,GYP,MTPN,TPR Code: NO CONC.
- Hayworth, J. and Melwani, A. (2004). Aquatic Pesticide Monitoring Program: Phase 3 (2004) Bioassessment of Waterbodies Treated with Aquatic Pesticides. *SFEI Contribution #393.San Francisco Estuary Institute, Oakland, CA* 120 p.
Chem Codes: Chemical of Concern: DQTBr,CuS,24D,ACL Code: NO CONC.

June 2010 ECOTOX run

- Hayworth, J. and Melwani, A. (2004). Aquatic Pesticide Monitoring Program: Phase 3 (2004) Bioassessment of Waterbodies Treated With Aquatic Pesticides. *SFEI Contribution #393.San Francisco Estuary Institute, Oakland, CA* 120 p.
Chem Codes: Chemical of Concern: DQTBr,CuS,24D,ACL Code: NO CONC.
- Henares, M. N. P., Cruz, C. da, Gomes, G. R., Pitelli, R. A., Machado, M. R. F., and Da Cruz, C. (2007). Diquat Acute Toxicity and Histopathological Effects on *Leporinus macrocephalus*'s Gills and Liver. *Pesticidas* 17: 107-116 (SPA) (ENG ABS).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Henning-de Jong, Irmgard, van Zelm, Rosalie, Huijbregts, Mark A. J., de Zwart, Dick, van der Linden, Ton M. A., Wintersen, Arjen, Posthuma, Leo, and van de Meent, Dik (2008). Ranking of agricultural pesticides in the Rhine-Meuse-Scheldt basin based on toxic pressure in marine ecosystems. *Environ. Toxicol. Chem.* 27: 737-745.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Henshall, J. D. and Goodwin, T. W. (1963). Amino acid-activating enzymes in germinating pea seedlings. 3: 677-691.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Hilderbrant, J. P. and Shuttleworth, T. J. (1992). Calcium-Sensitivity of Inositol 1,4,5-Trisphosphate Metabolism in Exocrine Cells From the Avian Salt Gland. *Biochem.J.* 282: 703-710.
Chem Codes: Chemical of Concern: DQTBr Code: NO TOX DATA.
- Hill, Kristina E. and Burk, Raymond F. (1984). Toxicity studies in isolated hepatocytes from selenium-deficient rats and vitamin E-deficient rats. 72: 32-39.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Hill, R. W., Maddock, B. G., Hart, B., and Gilbert, J. L. (1976). Determination of the Acute Toxicity of Formulation YF6130 (Reglone) to Rainbow Trout (*Salmo gairdneri*). *Rep.No.BL/B/1731, ICI Brixham Lab., Brixham, UK*.
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Ho, Han K., Jia, Yankai, Coe, Kevin J., Gao, Qiuxia, Doneanu, Catalin E., Hu, Zhonghua, Bammler, Theo K., Beyer, Richard P., Fausto, Nelson, Bruschi, Sam A., and Nelson, Sidney D. (2006-). Cytosolic heat shock proteins and heme oxygenase-1 are preferentially induced in response to specific and localized intramitochondrial damage by tetrafluoroethylcysteine. 72: 80-90.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Ho, Ye Shih, Xiong, Ye, Ho, Dorothy S., Gao, Jinping, Chua, Balvin H. L., Pai, Harish, and Mieyal, John J. (2007-). Targeted disruption of the glutaredoxin 1 gene does not sensitize adult mice to tissue injury induced by ischemia/reperfusion and hyperoxia. 43: 1299-1312 .
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Hoberg, J. (1987). Acute Toxicity of Diquat Concentrate to Mysid Shrimp (*Mysidopsis bahia*). *Rep.No.S-2910, Chevron Chem.Co., Richmond, CA*.
Chem Codes: Chemical of Concern: DQTBr) Code: NO SOURCE/NOT PURSUING.
- Hong, W. H., Meier, P. G., and Deininge., R. A. (1988). Determination of Dose-Time-Response Relationships from Long-Term Acute Toxicity Test Data. *Environ.Toxicol.Chem.* 7: 221-226.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Hong, Wuk Hee, Meier, Peter G., and Deininge, Rolf A. (1988). Estimation of a single probit line from multiple toxicity test data. 12: 193-202.
Chem Codes: Chemical of Concern: DQTBr Code: METHODS.

June 2010 ECOTOX run

Huff, Thomas, Cappelletti, Graziella, and Hannappel, Ewald (1998-). The dipyridyls paraquat and diquat attenuate the interaction of G-actin with thymosin [beta]4. 425: 495-498.

Chem Codes: Chemical of Concern: DQTBr,DQT,PAQT Code: CHEM METHODS.

Huijbregts, Mark A. J., Rombouts, Linda J. A., Ragas, Ad M. J., and van de Meent, Dik (2005). Human toxicological effect and damage factors of carcinogenic and noncarcinogenic chemicals for life cycle impact assessment. *Integr. Environ. Assess. Manage.* 1: 181-244 .

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

Ivany, J. A. (2004). Desiccation of Potato Cultivars With Endothal and Adjuvants. *Crop Protection*, 23 (4) pp. 353-359, 2004.

Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.

Ivany, J. A. (2005). Response of Three Potato (*Solanum Tuberosum*) Cultivars to Pyraflufen-Ethyl Used as a Desiccant in Canada. *Crop Protection*, 24 (9) pp. 836-841, 2005.

Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.

Jaeschke, Hartmut and Benzick, Arthur E. (1992-). Pathophysiological consequences of enhanced intracellular superoxide formation in isolated perfused rat liver. 84: 55-68.

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

Jones, G. M. and Vale, J. A. (Mechanisms of Toxicity, Clinical Features, and Management of Diquat Poisoning: a Review. *J toxicol clin toxicol.* 2000; 38(2):123-8. [*Journal of toxicology. Clinical toxicology*]: *J Toxicol Clin Toxicol.*

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

Kambourova, Veska and Vassilev, Kosta (2001). Application of USES for estimation of PEC for pesticides and hazard assessment for aquatic environment. *NATO Sci. Ser., IV* 2: 73-78.

Chem Codes: Chemical of Concern: DQTBr Code: MODELING.

Kaneshiro, Tsuneo and Zweig, Gunter (1966-). Effect of diquat (1,1'-ethylene-2,2'-dipyridylum dibromide) on the formation and photoreactions of chromatophores from *Rhodospirillum rubrum*. 126: 225-233.

Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.

Karlish, Steven J. D. and Avron, Mordhay (1968-). Analysis of light-induced proton uptake in isolated chloroplasts. 153: 878-888.

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

Kehrer, J. P., Haschek, W., and Witschi, H. P. (Peracute Toxicity of Paraquat and Diquat in 100% Oxygen. *Toxicol. Appl. Pharmacol.* 48(1): a59 1979 [Abstract #118 of the 1979 annual meeting of the Society of Toxicology.]

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

Kemmenoe, B. H., Schultz, I. R., Hayton, W. I., and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Disposition of Diquat in Channel Catfish and Rainbow Trout.

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

Kinkennon, Amy E., Green, David B., and Hutchinson, Ben (1995). The use of simulated or concentrated natural solar radiation for the TiO₂-mediated photodecomposition of basagran, diquat, and diuron. 31: 3663-3671.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Kohnke, Franz H. and Fraser Stoddart, J. (1985). An investigation by high resolution H NMR spectroscopy of the kinetic stabilities of **solution complexes of diquat** with disubstituted dibenzo-30-crown-10 derivatives. 26: 1685-1688.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Kohnke, H., Fraser Stoddart, J., Allwood, Billy L., and Williams, David J. (1985). Complexation of diquat by disubstituted dibenzo-30-crown-10 derivatives. 26: 1681-1684.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Kojima, Hiroyuki, Katsura, Eiji, Takeuchi, Shinji, Niiyama, Kazuhito, and Kobayashi, Kunihiro (2004). Screening for estrogen and androgen receptor activities in 200 pesticides by in vitro reporter gene assays using chinese hamster ovary cells. *Environ. Health Perspect.* 112: 524-531.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Kossuth, Susan V. (1984). Biomass chemicals: Improvement in quality and quantity with physiological regulators. 6: 47-59.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL,REVIEW.
- Kracko, K. M. and Noble, R. L. (1993). Herbicide Inhibition of Grass Carp Feeding on Hydrilla. *J.Aquat.Plant Manag.* 31: 273-275.
Chem Codes: Chemical of Concern: FDE,DQT Code: NO CONC .
- Krieger, R. I., Lee, P. W., Black, A., and Fukoto, T. R. (1973). Inhibition of Microsomal Aldrin Epoxidation by Diquat and Several Related Bipyridylum Compounds. *Bull.Environ.Contam.Toxicol.* 9: 1-3.
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: IN VITRO.
- Kröger, Achim, Dorner, Elisabeth, and Winkler, Edith (1980-). The orientation of the substrate sites of formate dehydrogenase and fumarate reductase in the membrane of *Vibrio succinogenes*. 589: 118-136.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Kubo, Takashi, Urano, Kohei, and Utsumi, Hideo (2002). Mutagenicity characteristics of 255 environmental chemicals. *J. Health Sci.* 48: 545-554.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Kuo, Tsung Li, Lin, Dong Liang, Liu, Ray H., Moriya, Fumio, and Hashimoto, Yoshiaki (2001-). Spectra interference between diquat and paraquat by second derivative spectrophotometry. 121: 134-139.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Lam, H. F., Takezawa, J., and Van Stee, E. W. (1979). Evaluation of the Effects of Paraquat and Diquat in Rats Using Pulmonary Function Tests. *Environ.Health Perspect.* 33: 338 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Langeland, K. A., Fox, A. M., Laroche, F. B., Martin, B. B., Martin, D. F., Norris, C. D., and Wang, C. (1994). Diquat Distribution in Water After Application to Submersed Weeds. *Water Resources Bulletin [WATER RESOUR. BULL.]*. Vol. 30, no. 1, pp. 93-98. 1994.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Larkum, A. W. D. and Bonner, W. D. (1972-). The effect of artificial electron donor and acceptor systems on light-induced absorbance responses of cytochromes f and other pigments in intact chloroplasts. 267: 149-159.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Larkum, A. W. D. and Bonner, W. D. (1972-). Light-induced absorbance changes of P518 in intact chloroplasts. 256: 396-408.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Lei, X. G. (2002). In Vivo Antioxidant Role of Glutathione Peroxidase: Evidence from Knockout Mice. *Methods Enzymol.* 347: 213-225.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: REVIEW.

June 2010 ECOTOX run

- Levis, Robert W. (1989-). Viable deletions of a telomere from a *Drosophila* chromosome. 58: 791-801.
Chem Codes: Chemical of Concern: DQTBr Code: NO TOXICANT.
- Lock, E. A. and Ishmael, J. (1978). The Effects of Paraquat and Diquat on Rat Kidney. *Toxicol. Appl. Pharmacol.* 45(1): 227 1978 45: 227.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Lowcock, L. A., Sharbel, T. F., Bonin, J., Ouellet, M., Rodrigue, J., and DesGranges, J. L. (1997). Flow Cytometric Assay for In Vivo Genotoxic Effects of Pesticides in Green Frogs (*Rana clamitans*). *Aquat.Toxicol.* 38: 241-255.
Chem Codes: EcoReference No.: 83840
Chemical of Concern: ATZ,PRT,CTN,LNR,GYP,BTY,DM,DQTBr,MLX Code: MIXTURE.
- Lucio Anelli, Pier, Spencer, Neil, and Stoddart, J. Fraser (1988). Diazadibenzo-30-crown-10 derivatives as receptors for diquat. 29: 1569-1572.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Manabe, J. and Ogata, T. (1986). The Toxic Effect of Diquat on the Rat Lung After **Intratracheal Administration**. *Toxicology Letters [TOXICOL. LETT.]*. Vol. 30, no. 1, pp. 7-12. 1986.
Chem Codes: Chemical of Concern: DQTBr Code: INHALE.
- Manzo, L., Gregotti, C., Di Nucci, A., and Richelmi, P. (1979). Toxicology of Paraquat and Related Bipyridyls: Biochemical, Clinical and Therapeutic Aspects. *Vet.Hum.Toxicol.* 21: 404-410.
Chem Codes: Chemical of Concern: PAQT,DQT Code: REFS CHECKED/REVIEW.
- Matsuoka, T. and Okuda, J. (1993). Extraction and Quantitation of Paraquat and Diquat From Blood. *Forensic Science International [FORENSIC SCI. INT.]*. Vol. 62, no. 3, pp. 179-186. 1993.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- May, B. E., Hestand, R. S., and Van Dyke, J. M. (1973). Comparative Effects of Diquat Plus Copper Sulfate on Aquatic Organisms. *Weed Sci.* 21: 249-253.
Chem Codes: Chemical of Concern: CuS,DQT Code: MIXTURE.
- Mayer, F. L. Jr. and Ellersieck, M. R. (1988). Experiences with Single-Species Tests for Acute Toxic Effects on Freshwater Animals. *Ambio* 17: 367-375.
Chem Codes: EcoReference No.: 20679
Chemical of Concern: EDT,TXP,CBL,DDT,CPY,EN,CLD,PSM,GYP,DQTBr,TFN Code: REFS CHECKED/REVIEW.
- Miller, I. L. and Wilson, C. G. (1989). Management of *Salvinia* in the Northern Territory. *J.Aquat.Plant Manag.* 27: 40-46.
Chem Codes: Chemical of Concern: HXZ,PAQT,DU,24DXY,DQTBr Code: REFS CHECKED/REVIEW.
- Minakata, K., Suzuki, O., Kumazawa, T., Asano, M., and Harada, N. (Determination of Diquat in Biological Materials by Electron Spin Resonance Spectroscopy. *Z rechtsmed. 1990; 103(8):599-607. [Zeitschrift fur rechtsmedizin. Journal of legal medicine]: Z Rechtsmed.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Minakata, K., Suzuki, O., Saito, S., and Harada, N. (A New Diquat Derivative Appropriate for Colourimetric Measurements of Biological Materials in the Presence of Paraquat. *Int j legal med. 2000; 114(1-2):1-5. [International journal of legal medicine]: Int J Legal Med.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Minakata, Kayoko, Suzuki, Osamu, and Asano, Minoru (1990). Extraction of diquat with 1-butanol from biological

June 2010 ECOTOX run

- materials. 44: 27-35.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Minakata, Kayoko, Suzuki, Osamu, and Asano, Minoru (1989). A new colorimetric determination of diquat produced with several moderate reductants. 42: 231-237.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Mira, Diego, Brunk, Ulf, Boveris, Alberto, and Cadenas, Enrique (1988). One-electron transfer reactions of diquat radical to different reduction intermediates of oxygen: Formation of hydroxyl radical and electronically excited states. 5: 155-163.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Monteiro, A., Moreira, I., Barrett, P. R. F., Greaves, M. P., Murphy, K. J., Pieterse, A. H., Wade, P. M., and Wallsten, M. (eds) (1990). Chemical Control of Parrotfeather (*Myriophyllum Aquaticum*). *Proceedings of the 8th international symposium on aquatic weeds, Uppsala, Sweden, 13-17 August 1990*, 163-164. 163-164.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Montiero, Hugo P., Vile, Glenn F., and Winterbourn, Christine C. (1989). Release of iron from ferritin by semiquinone, anthracycline, bipyridyl, and nitroaromatic radicals. 6: 587-591.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Moyer, J. R., Acharya, S. N., Fraser, J., Richards, K. W., and Foroud, N. (1996). Desiccation of Alfalfa for Seed Production With Diquat and Glufosinate. *Canadian Journal of Plant Science*, 76 (3) pp. 435-439, 1996.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Murphy, K. J., Barrett, P. R. F., Greaves, M. P., Murphy, K. J., Pieterse, A. H., Wade, P. M., and Wallsten, M. (eds) (1990). Aquatic Weeds in Scotland.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Nakagawa, Yoshio, Moldθus, Peter, and Cotgreave, Ian A. (1992-). The S-thiolation of hepatocellular protein thiols during diquat metabolism. 43: 2519-2525.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Narita, S., Motojuku, H., Sato, J., and Mori, H. (Autopsy in Acute Suicidal Poisoning With Diquat Dibromide. *Nippon noson igakkai zasshi (jpn. J. Rural med.)* 27(3): 454-455 1978.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Neugebauer-Buechler, K., Draxl, R., Zieris, F. J., Huber, W., Hill, I. R., Heimbach, F., Leeuwangh, P., and Mattiessen, P. (eds) (1994). Ph as a Functional Endpoint of Chemical Hazard Assessment in Aquatic Outdoor Microcosms.
Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT .
- Neuhold, J. M. (1987). The Relationship of Life History Attributes to Toxicant Tolerance in Fishes. *Environ.Toxicol.Chem.* 6: 709-716.
Chem Codes: EcoReference No.: 68899
Chemical of Concern:
BNZ,CBL,Se,DDT,AND,NH,ATZ,CHD,Cu,DLD,ES,EN,HPT,HCCH,PRN,PCP,TXP,Zn,PSM,MP,DQTBr
Code: REFS CHECKED/REVIEW.
- Newbold, C. (1975). Herbicides in aquatic systems. 7: 97-118.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Newman, J. F. (1967). The Ecological Effects of Paraquat and Diquat when Used to Control Aquatic Weed. *Proc.4th British Insecticide and Fungicide Conference, Volume 1, Held Nov.20-23, 1967, Brighton, England* 45-47.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: NO TOX DATA.

June 2010 ECOTOX run

- Newman, J. F. (1968). The Ecological Effects of Paraquat and Diquat when Used to Control Aquatic Weeds. *Weed Abstr.* 17: 361 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Nicholson, R. (1987). Acute Toxicity of Diquat Concentrate to Sheepshead Minnow (*Cyprinodon variegatus*). *Lab.Proj.ID S2909, Chevron Chem.Co., Richmond, CA*.
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Niculescu, S. P., Atkinson, A., Hammond, G., and Lewis, M (2004). Using fragment chemistry data mining and probabilistic neural networks in screening chemicals for acute toxicity to the fathead minnow. *SAR QSAR Environ. Res.* 15: 293-309.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Nowicka, Beata, Samotus, Alina, Szklarzewicz, Janusz, Burgess, John, Fawcett, John, and Russell, David R. (1998). Syntheses and X-ray crystal structure of (dq)₂[M(CN)₈]+5H₂O (M = Mo, W; dq = diquat). 17: 3167-3174.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Ohlsson, I. and Svensson, A. (**Residues of Diquat in Seeds** of Spring Rape After Desiccation. *Lantbrukshoeegsk. Medd. Ser. A191: 1-17; 1973*.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Orpin, C. G., Knight, M., and Evans, W. C. (1972). The Bacterial Oxidation of Picolinamide, a Photolytic Product of Diquat. *Biochem.J.* 127: 819-831.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Osburn, William O., Wakabayashi, Nobunao, Misra, Vikas, Nilles, Tricia, Biswal, Shyam, Trush, Michael A., and Kensler, Thomas W. (2006-). Nrf2 regulates an adaptive response protecting against oxidative damage following diquat-mediated formation of superoxide anion. 454: 7-15.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Ostrovsky, D., Amirov, R., Kharatian, E., Ogrel, O., Stepanov, S., Sibeldina, L., Shipanova, I., and Tapytkova, S. (1994). Bacteria and Pesticides: a New Aspect of Interaction -- Involvement of a New Biofactor. *BioFactors. Vol. 4, no. 3-4, pp. 151-154. 1994*.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Pacheco, M. L., Peñalva-Méndez, E. M., and Havel, J. (2003). Supramolecular interactions of humic acids with organic and inorganic xenobiotics studied by capillary electrophoresis. 51: 95-108.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pasi, A. and Embree, Jr (1975). Further comments on the assessment of the mutagenic properties of diquat and paraquat in the murine dominant lethal test. 31: 123-125.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Pastor, Susana, Creus, Amadeu, Parron, Tesifon, Cebulska-Wasilewska, Antonina, Siffel, Csaba, Piperakis, Stylianos, and Marcos, Ricard (2003). Biomonitoring of four European populations occupationally exposed to pesticides: use of micronuclei as biomarkers. *Mutagenesis* 18: 249-258.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Pateiro-Moure, M., Nogueira-Muñoz, J. C., Rias-Estévez, M., López-Periago, E., Martínez-Carballo, E., and Simal-Gándara, J. (Quaternary herbicides retention by the amendment of acid soils with a bentonite-based waste from wineries. In Press, Corrected Proof.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Paul, E. A., Simonin, H. A., Symula, J., and Bauer, R. W. (1995). The Toxicity of Diquat, Endothall, and Fluridone to Early Life Stages of Fish. Authors' Response. *J.Freshw.Ecol.* 10: 306-310 (Publ As #14903).

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: EDT,FDE,DQTBr Code: PUBL AS.
- Pavlista, A. D. (2002). Skin Set Evaluation by Skin Shear Measurements. *American Journal of Potato Research*, 79 (4) pp. 301-307, 2002.
Chem Codes: Chemical of Concern: DQTBr Code: MARKET STUDY.
- Pavlista, A. D. (2001). Technology & Product Reports: Ucc-C4243 Dessication of Potato Vines. *HortTechnology*, 11 (1) pp. 86-89, 2001.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.
- Peng, J. Y., Yang, R. B., Yuan, F., and Peng, X. Q. (2006). Hydrolysis Dynamics of Diquat in Aquatic Environment. *Chinese Journal of Pesticide Science [Chin. J. Pestic. Sci.]*. Vol. 8, no. 4, pp. 349-352. Dec 2006.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Perez-Ruiz, T., Martinez-Lozano, C., and Tomas, V. (1991). Spectrofluorometric Determination of Diquat by Manual and Flow-Injection Methods. *Anal chim acta* 244: 99-104.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Petit, V., Cabridenc, R., Swannell, R. P. J., Sokhi, R. S., Sokhi, R. S., Ellis, J. B., Burton, J. D., and Leeks, G. J. L. (eds) (1995). Review of Strategies for Modelling the Environmental Fate of Pesticides Discharged Into Riverine Systems.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Ploug-Sørensen, Ane, Nielsen, Mogens Brøndsted, and Becher, Jan (2003-). Ultra-high pressure synthesis of a tetrathiafulvalene-diquat cyclophane. 44: 2979-2982.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Pogosyan, Sergei I., Shevchenko, Nikolai V., and Merzlyak, Mark N. (1984). Stimulation of nadph-dependent lipid peroxidation by 2,4-dichlorophenoxyacetic acid, 2,4,5-trichlorophenoxyacetic acid and diquat **in microsomes isolated from Pisum sativum**. 37: 69-72.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Prahlad, K. V. and Anderson, R. J. (1975). Deleterious Changes Induced by the Fungicide Ethylenebis (Dithiocarbamic Acid) Disodium Salt (Nabam) and the Herbicide 1,1'-Ethylene- 2,2'-Dipyridinium Dibromide (Diquat) in *Xenopus laevis* Embryonic Tissues: An Ultrastructural Study. *Cytobios* 14: 63-74.
Chem Codes: Chemical of Concern: Nabam,DQTBr Code: MIXTURE.
- Pratt, J. R., Barreiro, R., and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Interactions Between Toxicants and Communities: the Role of Nutrients.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Pratt, J. R., Melendez, A. E., Barreiro, R., and Bowers, N. J. (1997). Predicting the Ecological Effects of Herbicides. *Ecological Applications [ECOL. APPL.]*. Vol. 7, no. 4, pp. 1117-1124. Nov 1997.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Pérez-Ruiz, T., Martínez-Lozano, C., and Tomás, V. (1991). Spectrofluorimetric determination of diquat by manual and flow-injection methods. 244: 99-104.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Randall, C. W., Cokgor, E. U., Kisoglu, Z., Punrattanasin, W., Erdal, U., and Sriwiriyarat, T. (The Effects of Diquat Dibromide on Biological Wastewater Treatment Plants. *J environ sci health a tox hazard subst environ eng*. 2003; 38(10):2453-63. [Journal of environmental science and health. Part a, toxic/hazardous substances & environmental engineering]: J Environ Sci Health A Tox Hazard Subst Environ Eng.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

June 2010 ECOTOX run

- Randall, C. W., Kisoglu, Z., Cokgor, E. U., Punrattanasin, W., Erdal, U., and Sriwiriya, T (2001). The fate and effects of diquat dibromide in biological wastewater treatment plants after its utilization as a root killing agent in sewers. *Conf. Proc. - Water Environ. Fed. Annu. Conf. Expo., 74th* 4823-4846.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Rikans, L. E. and Cai, Y. (1993). Diquat-Induced Oxidative Damage in BCNU-Pretreated Hepatocytes of Mature and Old Rats. 118: 263-270.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Rikans, L. E. and Cai Yong (1992). Age-Associated Enhancement of Diquat-Induced Lipid Peroxidation and Cytotoxicity in Isolated Rat Hepatocytes. *Journal of Pharmacology and Experimental Therapeutics [J. PHARMACOL. EXP. THER.]*. Vol. 262, no. 1, pp. 271-278. 1992.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Rikans, Lora E., Ardinska, Vita, and Hornbrook, K. Roger (1997-). Age-Associated Increase in Ferritin Content of Male Rat Liver: Implication for Diquat-Mediated Oxidative Injury. 344: 85-93.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Rikans, Lora E. and Hornbrook, K. Roger (1997). Age-related susceptibility to hepatotoxicants. 4: 339-344.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Ritter, A. M., Shaw, J. L., Williams, W. M., and Travis, K. Z. (2000). Characterizing Aquatic Ecological Risks from Pesticides Using a Diquat Dibromide Case Study. I. Probabilistic Exposure Estimates. *Environ.Toxicol.Chem.* 19: 749-759.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Ritter, A. M., Shaw, J. L., Williams, W. M., and Travis, K. Z. (2000). Characterizing Aquatic Ecological Risks From Pesticides Using a Diquat Dibromide Case Study. I. Probabilistic Exposure Estimates. *Environ.Toxicol.Chem.* 19: 749-759.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Rocchi, P., Perocco, P., Alberghini, W., Fini, A., and Prodi, G. (1980). Effect of Pesticides on Scheduled and Unscheduled DNA Synthesis of Rat Thymocytes and Human Lymphocytes. *Arch.Toxicol.* 45: 101-108 .
Chem Codes: Chemical of Concern: TRL,HCCH,DLDD,DDT,AND,Folpet,PQT,DQTBr,CBL,Maneb,THM,ZINEB,Ziram,Captan Code: IN VITRO.
- Rocchi, P., Perocco, P., Alberghini, W., Fini, A., and Prodi, G. (1980). Effect of Pesticides on Scheduled and Unscheduled Dna Synthesis of Rat Thymocytes and Human Lymphocytes. *Arch.Toxicol.* 45: 101-108 .
Chem Codes: Chemical of Concern: TRL,HCCH,DLDD,DDT,AND,Folpet,PQT,DQTBr,CBL,Maneb,THM,ZINEB,Ziram,Captan Code: IN VITRO.
- Rose, M. S., Smith, L. L., and Wyatt, I. (1974). Evidence for Energy-Dependent Accumulation of Paraquat into Rat Lung. *Nature* 252: 314-315.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: IN VITRO.
- Rose, M. S., Smith, L. L., and Wyatt, I. (1974). Evidence for Energy-Dependent Accumulation of Paraquat Into Rat Lung. *Nature (Lond.)* 252: 314-315.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: IN VITRO.
- Rose, Michael S., Lock, Edward A., Smith, Lewis L., and Wyatt, Ian (1976-). Paraquat accumulation: Tissue and species specificity. 25: 419-423.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

June 2010 ECOTOX run

- Rubinigg, M., Posthumus, F., Ferschke, M., Elzenga, J. T. M., and Stulen, I. (2003). Effects of NaCl Salinity on 15n-Nitrate Fluxes and Specific Root Length in the Halophyte *Plantago Maritima* L. *Plant Soil* 250: 201-213.
Chem Codes: Chemical of Concern: NaCL Code: NO TOXICANT.
- Rudez, J., Sepcic, K., and Sepcic, J. *. (1999). Vaginally Applied Diquat Intoxication. *Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]*. Vol. 37, no. 7, pp. 877-879. 1999.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Saad, Bahruddin, Tahir, Mazlina, Ahmad, Mohd N., Saleh, Muhammad I., Jab, Md, and Hussin, Abas Hj (1994-). Paraquat sensors based on cyclotetrasiloxanes. 285: 271-276.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS .
- Saito, K. (1986). Effect of Cations and Some Compounds on Paraquat Accumulation Into Cultured Pneumocytes. *Tohoku Journal of Experimental Medicine [TOHOKU J. EXP. MED.]*. Vol. 148, no. 1, pp. 41-47. 1986.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Saito, K. (1986). Effect of Diquat on Cell Growth and Macromolecule Synthesis in Cultured Pneumocytes. *Tohoku Journal of Experimental Medicine [TOHOKU J. EXP. MED.]*. Vol. 148, no. 1, pp. 35-39. 1986.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Saito, K., Parker, W. B., and Menzel, D. B. (Accumulation of Paraquat and Diquat by Cultured Type Ii Pneumocytes. *Toxicol. Appl. Pharmacol.* 48(1): a58 1979.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Sakazaki, Humitoshi, Ueno, Hitoshi, Umetani, Kaori, Utsumi, Hideo, and Nakamuro, Katsuhiko (2001). Immunotoxicological evaluation of environmental chemicals utilizing mouse lymphocyte mitogenesis test. *J. Health Sci.* 47: 258-271.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Samokyszyn, V. M., Thomas, C. E., Reif, D. W., Saito, M., and Aust, S. D. (1988). Release of Iron from Ferritin and Its Role in Oxygen Radical Toxicities. *Drug Metab.Rev.* 19: 283-303.
Chem Codes: Chemical of Concern: Fe,DQTBr,HOX,PAQT Code: IN VITRO/NO DURATION.
- Samokyszyn, V. M., Thomas, C. E., Reif, D. W., Saito, M., and Aust, S. D. (1988). Release of Iron From Ferritin and Its Role in Oxygen Radical Toxicities. *Drug Metab.Rev.* 19: 283-303.
Chem Codes: Chemical of Concern: Fe,DQTBr,HOX,PAQT Code: IN VITRO/NO DURATION.
- Sanchez-Bayo, F. (2006). Comparative Acute Toxicity of Organic Pollutants and Reference Values for Crustaceans. I. Branchiopoda, Copepoda and Ostracoda. *Environ.Pollut.* 139: 385-420.
Chem Codes: EcoReference No.: 88444
Chemical of Concern: CBL,MTPN,PSM,PRN,MLN,DZ,BPH,TBF,PPG,DQTBr Code: REVIEW.
- Sanchez Sellero, I. and Lopez- Rivadulla Lamas, M (2002). The toxicology of paraquat and diquat. A review. *Recent Res. Dev. Drug Metab. Dispos.* 1: 275-313.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Sandy, Martha S., Di Monte, Donato, and Smith, Martyn T. (1988). Relationships between intracellular vitamin E, lipid peroxidation, and chemical toxicity in hepatocytes. 93: 288-297.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Sandy, Martha S., Moldeus, Peter, Ross, David, and Smith, Martyn T. (1987-). Cytotoxicity of the redox cycling compound diquat in isolated hepatocytes: Involvement of hydrogen peroxide and transition metals. 259: 29-37.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

June 2010 ECOTOX run

- Sandy, Martha S., Moldeus, Peter, Ross, David, and Smith, Martyn T. (1986-). Role of redox cycling and lipid peroxidation in bipyridyl herbicide cytotoxicity : Studies with a compromised isolated hepatocyte model system. 35: 3095-3101.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Sawinsky, A. and Pasztor, G. (Study of Exposure in Regions Sprayed by Aircraft. *Z. Gesamte hyg. Ihre grenzgeb.* 21(11): 845-846 1977 (15 references).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Schaber, B. D., Dormaar, J. F., and Entz, T. (1993). Effect of Burning Alfalfa Stubble for Insect Pest Control on Seed Yield. *J.Entomol.Soc.BC* 90: 41-45.
Chem Codes: Chemical of Concern: PSM,TCF,DQT Code: MIXTURE.
- Schmidt, D. M., Neale, J., and Olson, K. R. (1999). Clinical Course of a Fatal Ingestion of Diquat. *Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]*. Vol. 37, no. 7, pp. 881-884. 1999.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Schneider, I. and Gunther, G. (1975). Effect of Diquat on the Level and the Enzymatic Oxidation of Indole-3-Acetic Acid (IAA), in Etiolated Pea Plants (Der Einfluss von Diquat auf den Gehalt und die Enzymatische Oxydation der Indolyl-3-Essigsäure (IES) in Etiolierten Erbsenpflanzen). *Biochem.Physiol.Pflanz.* 167: 151-158 (GER) (ENG ABS).
Chem Codes: Chemical of Concern: IAA,DQTBr Code: NON-ENGLISH.
- Senesi, N., D'Orazio, V., and Miano, T. M. (1995). Adsorption mechanisms of s-triazine and bipyridylum herbicides on humic acids from hop field soils. 66: 273-283.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Shah, R. G., Lagueux, J., Kapur, S., Levallois, P., Ayotte, P., Tremblay, M., Zee, J., and Poirier, G. G. *. (1997). Determination of Genotoxicity of the Metabolites of the Pesticides Guthion, Sencor, Lorox, **Reglone**, Daconil and Admire by Super(32)P-Postlabeling. *Molecular and Cellular Biochemistry [MOL. CELL. BIOCHEM.]*. Vol. 169, no. 1-2, pp. 177-184. Apr 1997.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Shavit, Noun, Degani, Hadassa, and San Pietro, Anthony (1970-). II. Effects of ionophorous antibiotics in chloroplasts. 216: 208-219.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Shaw, J. L. and Hamer, M. J. (1995). A Rebuttal to: The Toxicity of Diquat, Endothall, and Fluridone to the Early Life Stages of Fish. *J.Freshw.Ecol.* 10: 303-310.
Chem Codes: Chemical of Concern: EDT,FDE,DQTBr Code: ADDENDUM.
- Shiga, T., Kurisaki, E., and Nagamori, H. (Effects of a Herbicide, Paraquat or Diquat, on Cultured Human Fetal Cells. Au - Muramatsu H. *Fukushima igaku zasshi (fukushima med. J.)* 30(1-2): 173 1980.
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Shneyour, Amir, Raison, John K., and Smillie, Robert M. (1973-). The effect of temperature of the rate of photosynthetic electron transfer in chloroplasts of chilling-sensitive and chilling-resistant plants. 292: 152-161.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Siebert, D. and Lemperle, E. (1974). Genetic effects of herbicides: Induction of mitotic gene conversion in *Saccharomyces cerevisiae*. 22: 111-120.
Chem Codes: Chemical of Concern: DQTBr Code: YEAST.
- Siemering, G. S., Hayworth, J. D., and Greenfield, B. K. (2008). Assessment of Potential Aquatic Herbicide Impacts

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- to California Aquatic Ecosystems. *Arch. Environ. Contam. Toxicol.* 17 p. (DOI 10.1007/s00244-008-9137-2).
Chem Codes: EcoReference No.: 103697
Chemical of Concern: TPR,DQTBr Code: REVIEW.
- Simsiman, G. V. and Chesters, G. (1976). Persistence of Diquat in the Aquatic Environment. *Water Res.* 10: 105-112.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Simsiman, G. V., Daniel, T. C., and Chesters, G. (Diquat and Endothall: Their Fates in the Environment. *Residue rev.* 62: 131-174 1976 (166 references).
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Sivasithamparam, K. and Bolland, M. D. A. (1985). Effect of Herbicide Sprays on the Infectivity and Propagule Numbers of Take-All Fungus (*Gaeumannomyces graminis* var. *tritici*) and the Effect of Propagule Size and Soil Temperature on Infectivity. *Australas. Plant Pathol.* 14: 22-25.
Chem Codes: Chemical of Concern: DQT,DMB,PAQT Code: MIXTURE.
- Sjoestroem, Michael, Kolman, Ada, Clemedson, Cecilia, and Clothier, Richard (2008). Estimation of human blood LC50 values for use in modeling of in vitro-in vivo data of the ACuteTox project. *Toxicol. in Vitro* 22: 1405-1411.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Slaughter, M. R., Thakkar, H., and O'Brien, P. J. (2002). Effect of Diquat on the Antioxidant System and Cell Growth in Human Neuroblastoma Cells. *Toxicology and Applied Pharmacology [Toxicol. Appl. Pharmacol.]*. Vol. 178, no. 2, pp. 63-70. 15 Jan 2002.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Smith, C. V., Gupta, S., and Rogers, L. K. (1993). Lysosomal Exocytosis of Iron and Oxidized Proteins in Rats Treated with Diquat. *Free Radic. Biol. Med.* 15: 518 (doi: 10.1016/0891-5849(93)90365-2) (ABS).
Chem Codes: Chemical of Concern: DQT Code: ABSTRACT.
- Smith, N. B., Mathialagan, S., and Brooks, K. E. (1993). Simple Sensitive Solid-Phase Extraction of Paraquat From Plasma Using Cyanopropyl Columns. *Journal of Analytical Toxicology [J. ANAL. TOXICOL.]*. Vol. 17, no. 3, pp. 143-145. 1993.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Song, Xinbei and Budde, William L. (1996). Capillary Electrophoresis-Electrospray Mass Spectra of the Herbicides Paraquat and Diquat. 7: 981-986.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Speziale, B. J. (1994). Introduction to Lyngbya: Ecology, Physiology and Control. *Lake and Reservoir Management [LAKE RESERV. MANAGE.]*. Vol. 9, no. 2, 116 p. 1994.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.
- Sprecher, S. L. and Society of Environmental Toxicology and Chemistry, Pensacola (USA) (1992). Changes in Peroxidase Levels Associated With Herbicide Stress in Aquatic Plants. *Conference: 13. Annu. Meet. Society of Environmental Toxicology and Chemistry (SETAC 92), Cincinnati (USA), 8-12 Nov 1992*.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Stancliffe, T. C. and Pirie, Antoinette (1971-). The production of superoxide radicals in reactions of the herbicide diquat. 17: 297-299.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Stenrod, Marianne, Heggen, Heidi E., Bolli, Randi I., and Eklo, Ole Martin (2008). Testing and comparison of three pesticide risk indicator models under Norwegian conditions - A case study in the Skuterud and Heiabekken

June 2010 ECOTOX run

- catchments. *Agric., Ecosyst. Environ.* 123: 15-29.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Stenzel, Joel D., Welty, Stephen E., Benzick, Arthur E., Smith, E. O'Brian, Smith, Charles V., and Hansen, Thomas N. (1993). Hyperoxic lung injury in Fischer-344 and Sprague-Dawley rats in vivo. 14: 531-539.
Chem Codes: Chemical of Concern: DQTBr Code: INHALE.
- Strange, R. J. (1976). Nutrient Release and Community Metabolism Following Application of Herbicide to Macrophytes in Microcosms. *J.Appl.Ecol.* 13: 889-897.
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Suleiman, S. A. and Stevens, J. B. (1987). Bipyridylum Herbicide Toxicity: Effects of Paraquat and Diquat on Isolated Rat Hepatocytes. *J.Environ.Pathol.Toxicol.Oncol.* 7: 73-84.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: IN VITRO.
- Suleiman, S. A. and Stevens, J. B. (1987). Bipyridylum Herbicide Toxicity: Effects of Paraquat and Diquat on Isolated Rat Hepatocytes. *Journal of Environmental Pathology, Toxicology and Oncology [J. ENVIRON. PATHOL., TOXICOL. ONCOL.].* Vol. 7, no. 3, pp. 73-84. 1987.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Common Carp. *Rep.No.39112E, Kyushu Lab., Kurume City, Kukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Daphnia. *Rep.No.E-0675E, Kyusuhu Lab., Kurume City, Fukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Talcott, Ronald E., Shu, Helen, and Wei, Eddie T. (1979-). Dissociation of microsomal oxygen reduction and lipid peroxidation with the electron acceptors, paraquat and menadione. 28: 665-671.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Tanaka, R. and Amano, Y. (1989). Genotoxic Effects of Paraquat and Diquat Evaluated by Sister-Chromatid Exchange, Chromosomal Aberration and Cell-Cycle Rate. *Toxicology In Vitro [TOXICOL. IN VITRO.].* Vol. 3, no. 1, pp. 53-57. 1989.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Mirror Carp (*Cyprinus carpio*). *Rep.No.BL/B/3337, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Rainbow Trout (*Salmo gairdneri*). *Rep.No.BL/B/3336, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Teitt, J. M. and Maughan, O. E. (1987). The Response of a Farm Pond to Herbicide Treatment. *Va.J.Sci.* 38: 12-18.
Chem Codes: EcoReference No.: 70630
Chemical of Concern: EDT,DQTBr Code: MIXTURE.
- Tel-Or, Elisha and Malkin, Shmuel (1977-). The photochemical and fluorescence properties of whole cells, spheroplasts and spheroplast particles from the blue-green alga *Phormidium luridum*. 459: 157-174.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO [HAS SOME IN VIVO RESULTS, BUT SEEMS LIKE THE REPORTED DQT TEST IS ONLY IN VITRO].
- Thomas, P. and Amor, O. F. (1968). A Case of Diquat Poisoning in Cattle. *Vet.Rec.* 83: 674-676.

June 2010 ECOTOX run

- Chem Codes: Chemical of Concern: DQT,PAQT Code: INCIDENT/NO CONC.
- Thompson, C. J., Griffen, J., and Forbis, A. (1980). Acute Toxicity of Diquat 2 Spray (SX-1261) to Rainbow Trout (*Salmo gairdneri*). *Study No.26194, S-1834, Anal.Bio-Chemistry Lab., Columbia, MO.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Tomita, Masafumi (1991-). Comparison of one-electron reduction activity against the bipyridylum herbicides, paraquat and diquat, in microsomal and mitochondrial fractions of liver, lung and kidney (in vitro) . 42: 303-309.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Toropov, A. A. and Benfenati, E (2008). Additive SMILES-based optimal descriptors in QSAR modeling bee toxicity: Using rare SMILES attributes to define the applicability domain. *Bioorg. Med. Chem.* 16: 4801-4809.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Vale, J. A. (2005). Bipyridyl Herbicides: Mechanisms of **Toxicity, Features and Management**. *Clinical Toxicology [Clin. Toxicol.]*. Vol. 43, no. 5, pp. 426-427. 2005.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- van Zuydam, R. P., Sonneveld, C., and Naber, H. (1995). Weed control in sugar beet by precision guided implements. 14: 335-340.
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Vandermeulen, D. L. and Govindjee (1976-). Anthroyl stearate as a fluorescent probe of chloroplast membranes. 449: 340-356.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Venkateswarlu, K. (1993). Pesticide Interactions with Cyanobacteria in Soil and Pure Culture. *In: J.M.Bollag and G.Stotzky (Eds.), Soil Biochemistry, Marcel Dekker Inc., New York, NY* 8: 137-179.
Chem Codes: EcoReference No.: 65107
Chemical of Concern:
CYP,CLP,PPZ,PRT,ACL,DBAC,ASCN,PRO,MTAS,MANEB,MP,Ziram,ACR,TBC,TFN,DQTBr Code: REFS CHECKED/REVIEW.
- Vytras, K. and Simickova-Stajerova, B. (1989). Potentiometric ion-pair formation titrations of bisquaternary cations: Determination of diquat and paraquat. 226: 177-182.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Walker, P. A. III, Shaver, J. M., and Morris, M. D. (1997). Identification of Cationic Herbicides in Deionized Water, Municipal Tap Water, and River Water by Capillary Isotachophoresis/on-Line Raman Spectroscopy. *Applied Spectroscopy [APPL. SPECTROSC.]*. Vol. 51, no. 9, pp. 1394-1399. Sep 1997.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Waterer, D. (2007). Vine Desiccation Characteristics and Influence of Time and Method of Top Kill on Yields and Quality of Four Cultivars of Potato (*Solanum Tuberosum* L.). *Canadian Journal of Plant Science*, 87 (1) pp. 129-135, 2007.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL,MARKET STUDY.
- Webb, D. B., Ansari, E. J., and Wallis, D. I. (1988). An Electrophysiological Study of Ganglion Blockade by Paraquat and Diquat. *Hum.Exp.Toxicol.* 7: 563-565.
Chem Codes: Chemical of Concern: PAQT,DQT Code: IN VITRO.
- Weber, J. B. and Coble, H. D. (1968). Microbial Decomposition of Diquat Adsorbed on Montmorillomite and Kaolinite Clays. *J.Agric.Food Chem.* 16: 475-478.

June 2010 ECOTOX run

Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.

Wesseling, Catharina, Van Wendel De Joode, Berna, and Monge, Patricia (2001). Pesticide-related illness and injuries among banana workers in Costa Rica: A comparison between 1993 and 1996. *Int. J. Occup. Environ. Health* 7: 90-97.

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

Wheeler, R. (1978). 48 Hour Acute Static Toxicity of Diquat Dibromide to 1st Stage Nymph Water Fleas (*Daphnia magna*). *Rep. RIC 0002, Chevron Chem. Co., Richmond, CA.*

Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.

Wheeler, S. J., Black, A. S., and Pickering, G. J. (2005). Vineyard Floor Management Improves Wine Quality in Highly Vigorous *Vitis vinifera* 'Cabernet Sauvignon' in New Zealand. *N.Z.J. Crop Hortic. Sci.* 33: 317-328.

Chem Codes: Chemical of Concern: DQTBr, GYP Code: NO CONC.

Wigfield, Y. Y., McCormack, K. A., and Grant, R. (1993). Simultaneous Determination of Residues of Paraquat and Diquat in Potatoes Using High-Performance Capillary Electrophoresis With Ultraviolet Detection. *Journal of Agricultural and Food Chemistry [J. AGRIC. FOOD CHEM.]*. Vol. 41, no. 12, pp. 2315-2318. 1993.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Wilhelm, K.-P., Kolzow, T., Yang, L., Schulze, J., and Siegers, C.-P (2002). Pesticide toxicity evaluation of cytotoxicity of 11 pesticides separately and in combination. *Res. Commun. Pharmacol. Toxicol.* 7: 33-43.

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

Wolfgang, G. H. I., Jolly, R. A., Donarski, W. J., and Petry, T. W. (1991). Inhibition of diquat-induced lipid peroxidation and toxicity in precision-cut rat liver slices by novel antioxidants. 108: 321-329.

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

Wolfgang, G. Hi, Jolly, R. A., and Petry, T. W. (1991). Diquat-Induced Oxidative Damage in Hepatic Microsomes: Effects of Antioxidants. *Free radical biol med* 10: 403-412.

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

Wong, R. C. and Stevens, J. B. (1986). Bipyridylum Herbicide Toxicity in Vitro: Comparative Study of the Cytotoxicity of Paraquat and Diquat Toward the Pulmonary Alveolar Macrophage. *Journal of Toxicology and Environmental Health [J. TOXICOL. ENVIRON. HEALTH.]*. Vol. 18, no. 3, pp. 393-408. 1986.

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

Woodruff, Tracey J., Kyle, Amy D., and Bois, Frederic Y (1994). Evaluating health risks from occupational exposure to pesticides and the regulatory response. *Environ. Health Perspect.* 102: 1088-96.

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

Woollen, Bruce H. and Mahler, J. Dawn (1987-). An improved spot-test for the detection of paraquat and diquat in biological samples. 167: 225-229.

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

Wright, J., George, S. *, Martinez-Lara, E., Carpena, E., and Kindt, M. (2000). Levels of Cellular Glutathione and Metallothionein Affect the Toxicity of Oxidative Stressors in an Established Carp Cell Line. *Marine Environmental Research [Mar. Environ. Res.]*. Vol. 50, no. 1-5, pp. 503-508. 2000.

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

Yamashita, Masatomo, Matsuo, Hidenori, Ando, Yoshitaka, Tanaka, Junsuke, and Yamashita, Mamoru (1996). Analysis of 1,000 consecutive cases of acute poisoning in the suburb of Tokyo leading to hospitalization. *Vet. Hum. Toxicol.* 38: 34-5.

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

June 2010 ECOTOX run

- Yazar, O., Shively, J. M., and Camper, N. D. (1975). Effects of Selected Herbicides on Bacterial Populations in Nontreated and Treated Water. *Water Resour. Bull. Am. Water Resour. Assoc. Vol. 11, no. 2, pp. 294-299. 1975.*
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Yeates, G. W., Stout, J. D., Ross, D. J., Dutch, M. E., and Thomas, R. F. (1976). Long-Term Effects of Paraquat-Diquat and Additional Weed Control Treatments on Some Physical, Biological, and Respiratory Properties of a Soil Previously Under Grass. *N.Z.J.Agric.Res. 19: 51-61.*
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: MIXTURE.
- Yeo, R. R. and Dechoretz, N. (1976). Diquat and Copper-Ion Residues in Salmon-Spawning Channel. *Weed Sci. Vol. 24, no. 4, pp. 405-409. 1976.*
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Yoshio, Nakagawa, Cotgreave, Ian A., and Moldθus, Peter (1991-). Relationships between ascorbic acid and [alpha]-tocopherol during diquat-induced redox cycling in isolated rat hepatocytes. 42: 883-888.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Younes, M. and Galal-Gorchev, H (2000). Pesticides in drinking water-A case study. *Food Chem. Toxicol. 38: S87-S90.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Young, Laura C., Hawksworth, Gabrielle M., and Alderson, Carol A. (2008-). Diquat alters the localisation of E-cadherin, [beta]-catenin, occludin and ZO-1 in LLC-PK1 cells. 253: 21.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Young, R. G., Keeley, N. B., Shearer, K. A., and Crowe, A. L. M. (2004). Impacts of Diquat Herbicide and Mechanical Excavation on Spring-Fed Drains in Marlborough, New Zealand. *Sci.Conserv. 5-50.*
Chem Codes: Chemical of Concern: PQT,DQTBr Code: SURVEY.
- Zielihska, E., Kocki, T., Saran, T., Borbely, S., Kuc, D., Vilagi, I., Urbanska, E. M., and Turski, W. A. (2005). Effect of Pesticides on Kynurenic Acid Production in Rat Brain Slices. *Annals of Agricultural and Environmental Medicine [Ann. Agric. Environ. Med.]. Vol. 12, no. 2, pp. 177-179. 2005.*
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Zweig, Gunter, Shavit, Noun, and Avron, Mordhay (1965-). Diquat (1,1'-ethylene-2,2'-dipyridylum dibromide) in photoreactions of **isolated chloroplasts**. 109: 332-346.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Zychlinski, Lech, Raska-Emery, Patricia, and Montgomery, Mark R. (1987-). Selective inhibition of bipyridyl-stimulated NADPH oxidation by ascorbic acid. 47: 285-294 .
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.

June 2010 ECOTOX run

Diquat Dibromide Papers that Were not Accepted

Acceptable for EcoTox but not OPP

Ahluwalia, A. S., Kaur, M., and Dahuja, S. (2002). Toxicity of a Rice Field Herbicide in Some Nitrogen-Fixing Algae. *Indian J. Environ. Health* 44: 298-302.

EcoReference No.: 81880

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(DQTBr).

Ahmed, W. and Washino, R. K. (1976). Toxicity of Pesticides Used in Rice Culture in California to *Gambusia affinis* (Baird and Girard). *Ph.D. Thesis, Univ. of California, Davis, CA* 31 p.

EcoReference No.: 17722

Chemical of Concern: PRN,CBF,CPY,MP,CuS,MCPA,EDT,DU,MLT,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(CBF,MP),NO CONTROL(MLT,CuS,DU,DQTBr),NO ENDPOINT,NO CONTROL(CPY).

Alabaster, J. S. (1969). Survival of Fish in 164 Herbicides, Insecticides, Fungicides, Wetting Agents and Miscellaneous Substances. *Int. Pest Control* 11: 29-35 (Author Communication Used).

EcoReference No.: 542

Chemical of Concern:

24DXY,ATZ,CMPH,DBN,DZ,PQT,SZ,ACL,DZM,TFN,TBTO,PYZ,FUR,NaPCP,MCP1,MTAS,BRA,M LH,Boron,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(ATZ),NO CONTROL(ALL CHEMS).

Ameno, K., Fuke, C., Ameno, S., Kinoshita, H., and Ijiri, I. (1995). Simultaneous Quantitation of Diquat and Its Two Metabolites in Serum and Urine by Ion-Paired HPLC. *J. Liquid Chromatogr.* 18: 2115-2121.

EcoReference No.: 111185

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

Anderson, R. J. and Prahlad, K. V. (1976). The Deleterious Effects of Fungicides and Herbicides on *Xenopus laevis* Embryos. *Arch. Environ. Contam. Toxicol.* 4: 312-323.

EcoReference No.: 6076

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

Anonymous (1974). New Chemical Saves Fish Facility. *Agric. Res.* 23: 6-7.

Chemical of Concern: DQT,CuS; Habitat: A; Code: NO REVIEW(DQT,CuS).

Atkinson, J. B., Hill, K. E., and Burk, R. F. (2001). Centrilobular Endothelial Cell Injury by Diquat in the Selenium-Deficient Rat Liver. *Lab. Invest.* 81: 193-200 .

EcoReference No.: 86430

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: MOR,CEL,BCM,PHY; Code: NO ENDPOINT(DQTBr).

Barrett, P. R. F. (1981). A Comparison of Two Formulations of Diquat for Weed Control in Rivers. *In: Proc. of the Conference on Aquatic Weeds and Their Control, April 7-8, Christ Church, Oxford, England* 183-188 .

EcoReference No.: 14015

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

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Barrett, P. R. F. (1981). Diquat and Sodium Alginate for Weed Control in Rivers. *J.Aquat.Plant Manag.* 19: 51-52.

EcoReference No.: 111923

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: POP; Code: NO CONTROL,NO ENDPOINT(DQTBr).

Barrett, P. R. F. (1978). Some Studies on the Use of Alginates for the Placement and Controlled Release of Diquat on Submerged Aquatic Plants. *Pestic.Sci.* 9: 425-433.

EcoReference No.: 107196

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: PHY,MOR; Code: NO ENDPOINT(DQTBr).

Beasley, P. G., Lawrence, J. M., and Funderburk, H. H. Jr. (1965). The Absorption and Distribution of C14-Labeled Diquat in the Goldfish, *Carassius auratus* (Linnaeus). *Proc.South.Weed Conf.* 18: 581 (ABS).

EcoReference No.: 14133

Chemical of Concern: DQTBr; Habitat: A; Code: NO ABSTRACT(DQTBr).

Benijts-Claus, C. and Persoone, G. (1975). Toxicity of Three Herbicides in the Aquatic Ecosystem (La Toxicite de Trois Herbicides sur L'Ecosysteme Aquatique). *La Tribune Du Cereveau* 28(383):340-346 (FRE); *Pestic.Abstr.*9(7):526 (1976) (ABS).

EcoReference No.: 2877

Chemical of Concern: 24DXY,PQT,DQTBr; Habitat: A; Effect Codes: GRO,POP,MOR; Code: NO ENDPOINT,NO CONTROL(24DXY),NO CONTROL(PQT,DQTBr).

Berry, C. R. J. (1984). Toxicity of the Herbicides Diquat and Endothall to Goldfish. *Environ.Pollut.Ser.A* 34: 251-258.

EcoReference No.: 10872

Chemical of Concern: EDT,DQTBr; Habitat: A; Effect Codes: MOR,CEL,BEH; Code: NO ENDPOINT,NO CONTROL(DQTBr).

Berry, C. R. Jr. (1976). The Effects of Herbicide Treatment on a Reservoir Ecosystem. *Ph.D.Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA* 212 p.

EcoReference No.: 5692

Chemical of Concern: EDT,DQTBr; Habitat: A; Effect Codes: BEH,MOR,PHY,GRO,POP; Code: NO ENDPOINT,NO CONTROL(DQTBr).

Bimber, D. L., Boenig, R. W., and Sharma, M. L. (1976). Respiratory Stress in Yellow Perch Induced by Subtoxic Concentrations of Diquat. *Ohio J.Sci.* 76: 87-91.

EcoReference No.: 7727

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

Bimber, D. L. and Mitchell, R. A. (1978). Effects of Diquat on Amphibian Embryo Development. *Ohio J.Sci.* 78: 50-51.

EcoReference No.: 6991

Chemical of Concern: DQTBr; Habitat: A; Code: NO CONTROL(DQTBr).

Birmingham, B. C. and Colman, B. (1983). Potential Phytotoxicity of Diquat Accumulated by Aquatic Plants and Sediments. *Water Air Soil Pollut.* 19: 123-131.

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EcoReference No.: 11045

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

Blackburn, R. D. and Weldon, L. W. (1965). The Sensitivity of Duckweeds (Lemnaceae) and Azolla to Diquat and Paraquat. *Weeds* 13: 147-149.

EcoReference No.: 27814

Chemical of Concern: PAQT,DQTBr; Habitat: A; Effect Codes: PHY,POP; Code: NO ENDPOINT(PAQT,DQTBr).

Bond, C. E., Lewis, R. H., and Fryer, J. L. (1960). Toxicity of Various Herbicidal Materials to Fishes. In: *C.M.Tarzwel (Ed.), Biological Problems in Water Pollution, Trans.2nd Seminar, April 20-24, 1959, Tech.Rep.W60-3, U.S.Public Health Service, R.A.Taft Sanitary Eng.Ctr., Cincinnati, OH* 96-101.

EcoReference No.: 876

Chemical of Concern: SZ,EDT,DU,ACL,DQTBr,DBAC; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(SZ,EDT,ACL,DQTBr,DBAC),NO ENDPOINT,NO CONTROL(DU).

Bovey, R. W. and Miller, F. R. (1968). Desiccation and Defoliation of Plants by Different Herbicides and Mixtures. *Agron.J.* 60: 700-702.

EcoReference No.: 42932

Chemical of Concern: PCP,PQT,DQTBr; Habitat: T; Effect Codes: INJ,MOR; Code: NO CONTROL(PCP),NO ENDPOINT,NO CONTROL(PQT,DQTBr).

Bowmer, K. H. (1982). Aggregates of Particulate Matter and Aufwuchs on Elodea canadensis in Irrigation Waters, and Inactivation of Diquat. *Aust.J.Mar.Freshw.Res.* 33: 589-593.

EcoReference No.: 13563

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(DQTBr),NO COC(CBL).

Burk, R. F., Lawrence, R. A., and Lane, J. M. (1980). Liver Necrosis and Lipid Peroxidation in the Rat as the Result of Paraquat and Diquat Administration. Effect of Selenium Deficiency. *J.Clin.Investig.* 65: 1024-1031.

EcoReference No.: 104178

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: PHY,BCM; Code: NO ENDPOINT,NO CONTROL(PAQT,DQTBr).

Burton, J. A., Gardiner, T. H., and Schanker, L. S. (1974). Absorption of Herbicides from the Rat Lung. *Arch.Environ.Health* 29: 31-33.

EcoReference No.: 111922

Chemical of Concern: 24DXY; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(DQTBr,24DXY).

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

EcoReference No.: 646

Chemical of Concern:

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

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Butler, P. A. (1965). Commercial Fishery Investigations. *In: Circular 226, Effects of Pesticides on Fish and Wildl., U.S.D.I., Washington, DC* 65-77.

EcoReference No.: 807

Chemical of Concern:

MLT,ATZ,PRO,BS,CMPH,DU,HCCH,PMT,PRT,ACC,NTP,DDT,MP,PAQT,ETN,EN,TMP,TVPM,OXD,BSO,TCF,FNT,BTY,PQT,DQTBr; Habitat: A; Effect Codes: GRO,MOR,BEH; Code: LITE EVAL CODED(PRO),NO CONTROL(PRT,BS,MLT,ACL,Captan,TBF,CMPH),NO ENDPOINT,NO CONTROL(TMP,TVPM,OXD,BSO,DU,TCF,ATZ,FNT,PMT,BTY,PQT,DQTBr).

Cassidy, K. and Rodgers, J. H. Jr. (1989). Response of Hydrilla (*Hydrilla verticillata* (L.f.) Royle) to Diquat and a Model of Uptake Under Nonequilibrium Conditions. *Environ.Toxicol.Chem.* 8: 133-140.

EcoReference No.: 2035

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

Child, L. E. and Spencer-Jones, D. (1995). Treatment of *Crassula helmsii* - A Case Study. *In: P.Pysek, et al.(Eds.), Plant Invasions: General Aspects and Special Problems, SPB Acad.Publ., Hague, Netherlands* 195-202.

EcoReference No.: 111054

Chemical of Concern: DQT; Habitat: A; Effect Codes: GRO,PHY; Code: NO ENDPOINT(DQT).

Chin, Y. N. and Sudderuddin, K. I. (1979). Effect of Methamidophos on the Growth Rate and Esterase Activity of the Common Carp *Cyprinus carpio* L. *Environ.Pollut.* 18: 213, 220 (doi: 10.1016/0013-9327(79)90103-4).

EcoReference No.: 5597

Chemical of Concern: MTM,CBL,DQTBr; Habitat: A; Effect Codes: BCM,MOR; Code: LITE EVAL CODED(MTM,CBL),NO CONTROL(DQTBr).

Cooke, A. S. (1977). Effects of Field Applications of the Herbicides Diquat and Dichlobenil on Amphibians. *Environ.Pollut.* 12: 43-50.

EcoReference No.: 7470

Chemical of Concern: DBN,DQTBr; Habitat: A; Effect Codes: BEH,GRO,POP; Code: NO ENDPOINT(DQTBr).

Cope, O. B. (1966). Contamination of the Freshwater Ecosystem by Pesticides. *J.Appl.Ecol.* 3: 33-44 (Publ in Part As 6797).

EcoReference No.: 10337

Chemical of Concern:

DDT,HCCH,DLD,DU,MLN,24DXY,CBL,DBN,DZ,MLT,PAQT,PYN,TFN,CuS,PQT,DQTBr; Habitat: A; Effect Codes: MOR,ACC,REP; Code: NO CONTROL(ALL CHEMS),NO ENDPOINT,NO CONTROL(PQT,DQTBr).

Cope, O. B. (1965). Effects on Pesticides on Fish and Wildlife: 1864 Findings of the Fish and Wildlife Services, Washington DC. *Fish and Wildl.Serv.Cicr.226, Fish and Wildlife Service, Washington, D.C.*: 77 p. (Publ in Part As 6797).

EcoReference No.: 2871

Chemical of Concern:

CHD,CuS,PAQT,MCB,TFN,DBN,DZ,AND,PYN,HPT,EN,DLD,HCCH,EPRN,DDT,TXP,MRT,VNT,CU,ATN,DU,SZ,MLN,RTN,MXC,DDVP,DMT,FNTH,TCF,ADC,CBL,BS,DBM,FNF,24DXY,AMSV,DBAC,NSM,BYT,MVP,PPG,TMP,BSO,DDVP,Naled,FNT,BTY,PQT,DQTBr; Habitat: A; Effect Codes: MOR,BCM; Code: NO CONTROL(RTN,PPG,24DXY,Naled,BS,MLN,TMP,BSO,DZ,DU,DDVP,TCF,FNT,BTY,PQT,ADC,TFN

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,ATN),NO ENDPOINT(DQTBr).

Crabtree, H. C., Lock, E. A., and Rose, M. S. (1977). Effects of Diquat on the Gastrointestinal Tract of Rats. *Toxicol.Appl.Pharmacol.* 41: 585-595.

EcoReference No.: 36274; Habitat: T; Effect Codes: MOR,GRO,PHY; Code: NO COC(DQT).

Crabtree, H. C. and Rose, M. S. (1976). Early Effects of Diquat on Plasma Corticosteroid Concentrations in Rats. *Biochem.Pharmacol.* 25: 2465, 2468 (doi: 10.1016/0006-2952(76)90449-4).

EcoReference No.: 110923; Habitat: T; Effect Codes: BCM; Code: NO COC(DQTBr,DQT).

Crawford, R. B. and Guarino, A. M. (1985). Effects of Environmental Toxicants on Development of a Teleost Embryo. *J.Environ.Pathol.Toxicol.* 6: 185-194.

EcoReference No.: 14348

Chemical of Concern: TXP,AND,MLN,24DXY,PCP,CBL,HCCH,PRN,DDT,PAQT,PQT,DQTBr;
Habitat: A; Effect Codes: GRO,MOR; Code: NO ENDPOINT,NO
CONTROL(TXP,AND,MLN,24DXY,PCP,CBL,HCCH,PRN,DDT,PAQT,PQT,DQTBr).

Daniel, J. W. and Gage, J. C. (1966). Absorbition and Excretion of Diquat and Paraquat in Rats. *Br.J.Ind.Med.* 23: 133-136.

EcoReference No.: 107788

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: ACC; Code: NO
CONTROL(PAQT,DQTBr).

DaSilva, E. J., Henriksson, L. E., and Henriksson, E. (1975). Effect of Pesticides on Blue-Green Algae and Nitrogen-Fixation. *Arch.Environ.Contam.Toxicol.* 3: 193-204.

EcoReference No.: 7753

Chemical of Concern: LNR,MLN,PQT,DQTBr,AMTL,MCPA; Habitat: T; Effect Codes: PHY,GRO;
Code: NO ENDPOINT(MLN,DQTBr,LNR,PQT,AMTL,MCPA).

Day, B. E., McCarty, C. D., and Jordan, L. S. (1962). Dalapon, Amitrole, and Weed Oil Compared for Effectiveness in Control of Bermudagrass in California Citrus Orchards. *Hilgardia* 32: 207-227.

EcoReference No.: 42076

Chemical of Concern: SZ,AMTL,EPTC,PRO,MLH,DQTBr; Habitat: T; Effect Codes: POP; Code:
NO ENDPOINT(SZ,AMTL,PRO),NO ENDPOINT,NO CONTROL(EPTC,MLH,DQTBr).

DePeyster, A. and Long, W. F. (1993). Fathead Minnow Optomotor Response as a Behavioral Endpoint in Aquatic Toxicity Testing. *Bull.Environ.Contam.Toxicol.* 51: 88-95.

EcoReference No.: 6822

Chemical of Concern: FNT,DQTBr; Habitat: A; Code: NO CONTROL(FNT,DQTBr).

Dial, N. A. and Baur Dial, C. A. (1987). Lethal Effects of Diquat and Paraquat on Developing Frog Embryos and 15-Day-Old Tadpoles, *Rana pipiens*. *Bull.Environ.Contam.Toxicol.* 38: 1006-1011.

EcoReference No.: 2604

Chemical of Concern: PQT,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL
CODED(PQT),NO ENDPOINT(DQTBr).

Dodge, J. D. and Lawes, G. B. (1974). Some Effects of the Herbicides Diquat and Morfamquat on the Fine Structure

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of Leaf Cells. *Weed Res.* 14: 45-49.

EcoReference No.: 41765

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

Dodson, J. J. and Mayfield, C. I. (1979). Modification of the Rheotropic Response of Rainbow Trout (*Salmo gairdneri*) by Sublethal Doses of the Aquatic Herbicides Diquat and Simazine. *Environ.Pollut.* 18: 147-157.

EcoReference No.: 6816

Chemical of Concern: SZ,DQTBBr; Habitat: A; Effect Codes: BEH,ACC; Code: NO ENDPOINT(SZ,DQTBBr).

Draxl, R., Neugebauer, K. E., Zieris, F. J., and Huber, W. (1991). Comparison of the Ecological Effects of Diquat on Laboratory Multi Species and Outdoor Freshwater Systems. *Verh.Internat.Verein.Limnol.* 24: 2269-2271.

EcoReference No.: 81934

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

Dunachie, J. F. and Fletcher, W. W. (1970). The Toxicity of Certain Herbicides to Hens' Eggs Assessed by the Egg-Injection Technique. *Ann.Appl.Biol.* 66: 515-520.

EcoReference No.: 81159

Chemical of Concern:

ATZ,BMN,DBM,DPP1,DQTBBr,LNR,MCPA,MCPB,MCP1,PAQT,PCP,SZ,24DXY; Habitat: T; Effect Codes: MOR; Code: NO ENDPOINT(ALL CHEMS).

El-Deen, M. A. S. and Rogers, W. A. (1992). Acute Toxicity and Some Hematological Changes in Grass Carp Exposed to Diquat. *J.Aquat.Anim.Health* 4: 277-280.

EcoReference No.: 7784

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

El-Deen, M. A. S. and Rogers, W. A. (1993). Changes in Total Protein and Transaminase Activities of Grass Carp Exposed to Diquat. *J.Aquat.Anim.Health* 5: 280-286.

EcoReference No.: 16083

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

Folmar, L. C. (1978). Avoidance Chamber Responses of Mayfly Nymphs Exposed to Eight Herbicides. *Bull.Environ.Contam.Toxicol.* 19: 312-318 (Author Communication Used).

EcoReference No.: 7328

Chemical of Concern: EDT,24DXY,GYP,CuS,AMSV,ACL,DQTBBr; Habitat: A; Effect Codes: BEH; Code: NO ENDPOINT,NO CONTROL(EDT,24DXY,GYP,CuS,AMSV,ACL,DQTBBr).

Folmar, L. C. (1976). Overt Avoidance Reaction of Rainbow Trout Fry to Nine Herbicides. *Bull.Environ.Contam.Toxicol.* 15: 509-514.

EcoReference No.: 5498

Chemical of Concern: EDT,24DXY,GYP,CuS,AMSV,ACL,DQTBBr; Habitat: A; Effect Codes: BEH; Code: LITE EVAL CODED(OW-TRV-Cu),NO ENDPOINT(EDT,GYP,CuS,AMSV,ACL),NO ENDPOINT,NO CONTROL(24DXY,DQTBBr).

Fox, A. M. and Murphy, K. J. (1990). The Efficacy and Ecological Impacts of Herbicide and Cutting Regimes on the Submerged Plant Communities of Four British Rivers. 1. A Comparison of Management Efficacies. *J.Appl.Ecol.* 27: 520-540.

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EcoReference No.: 111856; Habitat: A; Effect Codes: POP; Code: NO COC(DQT).

Frank, P. A., Otto, N. E., and Bartley, T. R. (1961). Techniques for Evaluating Aquatic Weed Herbicides. *Weeds* 9: 515-521.

EcoReference No.: 17443

Chemical of Concern: EDT,ACL,AMSV,DQTBr,PRO,CBZ; Habitat: A; Effect Codes: POP; Code: NO CONTROL(EDT,ACL,AMSV,PRO,CBZ),NO ENDPOINT,NO CONTROL(DQTBr).

Fronza, A. and Kendrick, B. (1986). Effects of Food Containing Diquat on a Pond Invertebrate, *Lymnaea elodes*. *Arch.Hydrobiol.* 105: 387-395.

EcoReference No.: 12616

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

Fronza, A. and Kendrick, B. (1985). Uptake of Diquat by Four Aero-Aquatic Hyphomycetes. *Environ.Pollut.Ser.A* 37: 229-244.

EcoReference No.: 7935

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: ACC,POP; Code: NO ENDPOINT(DQTBr).

Funderburk, H. H. (1963). Distribution of C14 Labeled Herbicides in Bluegills and Shellcrackers. *U.S.EPA-OPP Registration Standard*.

EcoReference No.: 13029

Chemical of Concern: 24DXY,SZ,PAQT,PQT,DQTBr; Habitat: A; Effect Codes: ACC; Code: NO ENDPOINT(SZ,PAQT),NO ENDPOINT,NO CONTROL(24DXY,PQT,DQTBr).

Funderburk, H. H. Jr. and Lawrence, J. M. (1964). Mode of Action and Metabolism of Diquat and Paraquat. *Weeds* 12: 259-264.

EcoReference No.: 27704

Chemical of Concern: ATZ,PQT,DQTBr; Habitat: A; Effect Codes: PHY,ACC; Code: NO ENDPOINT(PQT,ATZ,DQTBr).

Funderburk, H. H. Jr. and Lawrence, J. M. (1963). A Sensitive Method for Determination of Low Concentrations of Diquat and Paraquat. *Nature* 199: 1011-1012.

EcoReference No.: 107278

Chemical of Concern: PQT,DQTBr; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(PQT,DQTBr).

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:

DDT,PRN,PNB,TFN,TCMTB,SZ,RSM,PYZ,PPZ,PRO,ACP,MTM,MDT,CCA,DSMA,MSMA,CBF,CYC, MOM,AMTR,AMTL,ATZ,BMC, Habitat: T; Effect Codes: MOR; Code: NO CONTROL(ALL CHEMS).

Gilderhus, P. A. (1967). Effects of Diquat on Bluegills and Their Food Organisms. *Prog.Fish-Cult.* 29: 67-74.

EcoReference No.: 899

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Chemical of Concern: DQTBBr; Habitat: A; Code: NO CONTROL(DQTBBr).

Hartley, M. J., Reid, J. B., Rahman, A., and Springett, J. A. (1996). Effect of Organic Mulches and a Residual Herbicide on Soil Bioactivity in an Apple Orchard. *N.Z.J.Crop Hortic.Sci.* 24: 183-190.

EcoReference No.: 97057

Chemical of Concern: DQTBBr,PQT,GYP,TBZ; Habitat: T; Effect Codes: SYS,POP; Code: NO CONC(GYP),NO MIXTURE(DQTBBr,PQT).

Hautier, L., Jansen, J. P., Mabon, N., and Schiffers, B. (2005). Selectivity Lists of Pesticides to Beneficial Arthropods for IPM Programs in Carrot - First Results. *Comm.Appl.Biol.Sci.* 70: 547-557.

EcoReference No.: 104765

Chemical of Concern:

DQT,CBF,CPY,DZ,DMT,DM,PIM,AZX,IPD,MYC,SFR,CMZ,GFSNH,GYP,LNR,PAQT,QZFE,FZFPB,T
EZ,TPL,SFR,CPP,DFC,LCYT; Habitat: T; Effect Codes: MOR,PHY; Code: LITE EVAL
CODED(MYC,DM,PIM,IPD),NO
ENDPOINT(PAQT,QZFE,GFSNH,GYP,CBF,CPY,AZX,LNR,FZFPB),OK(DZ,DMT,SFR,CMZ,TEZ,TP
L,CPP,DFC,LCYT),NO MIXTURE(DQT).

Headford, D. W. R. and Douglas, G. (1967). Tuber Necrosis Following the Desiccation of Potato Foliage with Diquat. *Weed Res.* 7: 131-144.

EcoReference No.: 43374

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

Hilsenhoff, W. (1966). Effect of Diquat on Aquatic Insects and Related Animals. *J.Econ.Entomol.* 59: 1520-1521.

EcoReference No.: 4489

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

Hiltibran, R. C. (1967). Effects of Some Herbicides on Fertilized Fish Eggs and Fry. *Trans.Am.Fish.Soc.* 96: 414-416.

EcoReference No.: 2751

Chemical of Concern: EDT,SZ,24DXY,ATZ,DBN,AMTL,IODP,DPP1,As,DQTBBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(DPP1,ATZ,SZ),OK(EDT,DBN,AMTL,IODP,As),NO
ENDPOINT,NO CONTROL(24DXY,DQTBBr).

Holst, R. W., Yopp, J. H., and Kapusta, G. (1982). Effect of Several Pesticides on the Growth and Nitrogen Assimilation of the Azolla-anabaena Symbiosis. *Weed Sci.* 30: 54-58.

EcoReference No.: 70299

Chemical of Concern: SZ,ATZ,LNR,MBZ,24DXY,DMB,DU,BMY,ACR,PQT,TFN,DQTBBr; Habitat: A; Effect Codes: POP,PHY,BCM; Code: LITE EVAL CODED(ATZ,SZ,DMB),NO
ENDPOINT(LNR,24DXY,DU,BMY,ACR,PQT,TFN,DQTBBr).

Holtz, D. T. and Winter, J. D. (1989). Effects of the Herbicides Ortho-Diquat and Aquathol-K on Selected Physiological Parameters in Yellow Perch (*Perca flavescens*). *Bull.Ecol.Soc.Am.* 70: 145 (ABS).

EcoReference No.: 3031

Chemical of Concern: EDT,DQTBBr; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT,NO CONTROL(DQTBBr).

Howe, D. J. T. and Wright, N. (1965). The Toxicity of Paraquat and Diquat. *Proc.N.Z.Weed Control Conf.* 18: 105-114.

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EcoReference No.: 81862

Chemical of Concern: PQT,DQTBBr; Habitat: T; Effect Codes: MOR,GRO,PHY,ACC; Code: NO CONTROL(PQT,DQTBBr).

Hughes, J. S. and Davis, J. T. (1962). Toxicity of Selected Herbicides to Bluegill Sunfish. *Proc.La.Acad.Sci.* 25: 86-93.

EcoReference No.: 533

Chemical of Concern: EDT,DQTBBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DQTBBr).

Hughes, R. D., Millburn, P., and Williams, R. T. (1973). Biliary Excretion of Some Diquaternary Ammonium Cations in the Rat, Guinea Pig and Rabbit. *Biochem.J.* 136: 979-984.

EcoReference No.: 106874

Chemical of Concern: DQTBBr,PAQT; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT,NO CONTROL(PAQT,DQTBBr).

Inabinet, J. R. (1979). Environmental Impact of the South Carolina Public Service Authority's FY'76 Aquatic Weed Control Program in Lake Marion. *South Carolina Dep.of Health and Environ.Control:60 p.(U.S.NTIS AD-A069572).*

EcoReference No.: 6877

Chemical of Concern: 24DXY,DQTBBr; Habitat: A; Effect Codes: POP,BCM; Code: NO ENDPOINT,NO CONTROL(24DXY,DQTBBr).

Jeater, R. S. L. (1964). Evaluation of Paraquat and Diquat for Weed Control in Rubber. *Weed Res.* 4: 133-141.

EcoReference No.: 42151

Chemical of Concern: PAQT,PQT,DQTBBr; Habitat: T; Code: NO ENDPOINT,NO CONTROL(PQT,DQTBBr).

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,ACL,ADC,AMTL,AMTR,AND,ASM,ATN,ATZ,AZ,BFL,BMC,BMN,BS,BTY,Captan,CBL,CC A,CHD,CMPH,CPP,CPY,CQTC,Cu,CuFRA,DBN,DCB,DCNA,DCPA,DDD,DDT,DDVP,DEM,DINO,D LD,DMB,DMT,DOD,DPP1,DQTBBr,DS,DU,DZ,DZM,EDT,EN,EP,EPTC,ES,ETN,FLAC,FMU,FNF,FNT, FNTH,Folpet,HCCH,HPT,LNR,Maneb,MCB,MCPA,MCPB,MCP1MDT,MLH,MLN,MLT,MRX,MTM, MVP,MXC,Naled,NPM,PB,PCH,PCL,PCP,PEB,PHMD,PHSL,PMT,PPHD,PPN,PPX,PPZ,PQT,PRN,PR O,PRT,PYN,PYZ,RTN,SFT,SID,SZ,TCF,TFN,THM,TMP,TRB,TRL,TXP,VNT,Zineb; Habitat: T; Effect Codes: MOR; Code: NO PUBL AS(24DXY,ACL,AMTL,AMTR,ASM,ATN,AZ,BFL,BMC,BMN,BS,BTY,CCA,CMPH,CPP,CPY, CQTC,CTHM,DBN,DCB,DCNA,DDT,DINO,DOD,DPP1,DQTBBr,DU,DZM,EP,EPTC,ES,FMU,FNF,FN T,Folpet,HCCH,HPT,LNR,MCB.

Jones, R. O. (1962). Tolerance of the Fry of Common Warm-Water Fishes to Some Chemicals Employed in Fish Culture. *Proc.Annu.Conf.Southeast.Assoc.Game Fish Comm.* 16: 436-445.

EcoReference No.: 10014

Chemical of Concern: SZ,EDT,ATZ,HCCH,DBAC,DQTBBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(ATZ,DBAC),NO ENDPOINT(SZ),NO ENDPOINT,NO CONTROL(DQTBBr).

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Jopperi-Davis, K. S., Park, M. S., Rogers, L. K., Backes, C. H. Jr., Lim, I. K., and Smith, C. V. (2004). Compartmental Inhibition of Hepatic Glutathione Reductase Activities by 1,3-bis(2-Chloroethyl)-N-Nitrosourea (BCNU) in Sprague-Dawley and Fischer-344 Rats. *Toxicol.Lett.* 147: 219-228 (doi: 10.1016/j.toxlet.2003.10.017).

EcoReference No.: 110544; Habitat: T; Effect Codes: BCM; Code: NO COC(DQT).

Kaya, B., Yanikoglu, A., Creus, A., and Marcos, R. (2000). Genotoxicity Testing of Five Herbicides in the Drosophila Wing Spot Test. *Mutat.Res.* 465: 77-84.

EcoReference No.: 82394

Chemical of Concern: DQTBr,AMTL,MBZ,PMT; Habitat: T; Effect Codes: CEL,GRO; Code: NO ENDPOINT(DQTBr,AMZ,MBZ,PMT).

Keeling, P. L., Pratt, I. S., Aldridge, W. N., and Smith, L. L. (1981). The Enhancement of Paraquat Toxicity in Rats by 85% Oxygen: Lethality and Cell-Specific Lung Damage. *Br.J.Exp.Pathol.* 62: 643-654.

EcoReference No.: 110718

Chemical of Concern: PQT; Habitat: T; Effect Codes: CEL,MOR,ACC; Code: NO COC(DQTBr),OK(PQT).

Kehrer, J. P., Haschek, W. M., and Witschi, H. (1979). The Influence of Hyperoxia on the Acute Toxicity of Paraquat and Diquat. *Drug Chem.Toxicol.* 2: 397-408.

EcoReference No.: 105452

Chemical of Concern: PQT; Habitat: T; Effect Codes: MOR,ACC; Code: LITE EVAL CODED(PQT),NO COC(DQT).

Khera, K. S., Whitta, L. L., and Clegg, D. J. (1970). Embryopathic Effects of Diquat and Paraquat in Rats. In: *W.B.Deichmann, J.L.Radomski, and R.A.Penalver (Eds.), Pesticides Symposia, Inter-Am.Conf.on Toxicol.and Occup.Med., Univ.of Miami Schl.of Med., Miami, FL* 257-261.

EcoReference No.: 73112

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: REP,GRO,MOR; Code: NO ENDPOINT(PAQT,DQTBr).

Killgore, K. J. (1984). Use of Herbicide/Adjuvant Formulations for the Control of *Myriophyllum spicatum* L. *Misc.Pap.A-84-8, Army Engineer Waterways Exp.Station, Vicksburg, MS* 64 p.

EcoReference No.: 15565

Chemical of Concern: DQTBr,DMDP,24DXYBEE,EDT; Habitat: A; Effect Codes: POP,GRO; Code: NO ENDPOINT(ALL CHEMS).

Kreiter, S., Brian, F., Magnien, C., Sentenac, G., and Valentin, G. (1991). Spider Mites and Chemical Control of Weeds: Interactions. In: *F.Dusbabek and V.Bukva (Eds.), Modern Acarology Vol.II, VIII Int.Congr.of Acarol., Aug.6-11,1990, Ceske Budejovice, Czechoslovakia, SPB Acad.Publ., The Hague, Netherlands* 2: 725-736.

EcoReference No.: 96868

Chemical of Concern: TBZ,PQT,GYPI; Habitat: T; Effect Codes: MOR,REP,POP; Code: LITE EVAL CODED(GYPI),NO ENDPOINT(PQT),NO MIXTURE(TBZ),NO COC(DQTBr).

Kurisaki, E. and Sato, H. (1979). Tissue Distribution of Paraquat and Diquat After Oral Administration in Rats. *Forensic Sci.Int.* 14: 165-170.

EcoReference No.: 106318

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: ACC,PHY; Code: NO

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ENDPOINT,NO CONTROL(PAQT,DQTBr).

Lam, A. K. Y. and Prepas, E. E. (1997). In Situ Evaluation of Options for Chemical Treatment of Hepatotoxic Cyanobacterial Blooms. *Can.J.Fish.Aquat.Sci.* 54: 1736-1742.

EcoReference No.: 111220

Chemical of Concern: DQT; Habitat: A; Effect Codes: BCM,SYS; Code: NO ENDPOINT(DQT).

Lam, A. K. Y., Prepas, E. E., Spink, D., and Hrudey, S. E. (1995). Chemical Control of Hepatotoxic Phytoplankton Blooms: Implications for Human Health. *Water Res.* 29: 1845-1854.

EcoReference No.: 15021

Chemical of Concern: SZ,DQTBr; Habitat: A; Effect Codes: BCM,CEL; Code: NO ENDPOINT(SZ,DQTBr).

Larsson, B., Oskarsson, A., and Tjalve, H. (1977). Binding of Paraquat and Diquat on Melanin. *Exp.Eye Res.* 25: 353-359.

EcoReference No.: 106546

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(PQT,DQTBr).

Lawrence, J. M., Funderburk, H. H. Jr., Blackburn, R. D., and Beasley, P. G. (1962). The Status of Diquat and Paraquat as Aquatic Herbicides. *Proc.Annu.Conf.Southeast.Assoc.Game Fish Comm.* 16: 247-257.

EcoReference No.: 4829

Chemical of Concern: PQT,PDMS,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(PQT,PDMS,DQTBr).

Leahey, J. P. and Hemingway, R. J. (1975). The Metabolism of Diquat in Hens and Residues in Eggs and Tissues. *Environ.Qual.Saf. Suppl.*3: 157-162.

EcoReference No.: 111125

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

Lindquist, N. G., Larsson, B. S., and Lyden-Sokolowski, A. (1988). Autoradiography of (14C)Paraquat or (14C)Diquat in Frogs and Mice: Accumulation in Neuromelanin. *Neurosci.Lett.* 93: 1-6.

EcoReference No.: 108757

Chemical of Concern: DQTBr,PQT; Habitat: AT; Effect Codes: ACC; Code: NO ENDPOINT(PQT,DQTBr).

Lorz, H. W., Glenn, S. W., Williams, R. H., Kunkel, C. M., Norris, L. A., and Loper, B. R. (1979). Effects of Selected Herbicides on Smolting of Coho Salmon. *EPA-600/3-79-071, U.S.EPA, Corvallis, OR* 102 p.

EcoReference No.: 561

Chemical of Concern: PCLK,DMB,ATZ,PAQT,24DXY,ACL,AMTL,PQT,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(ATZ,DMB,ACL),OK(PCLK,AMTL),NO ENDPOINT,NO CONTROL(24DXY,DQTBr),NO CONTROL(PQT).

Lugo, A., Bravo-Inclan, L. A., Alcocer, J., Gaytan, M. L., Oliva, M. G., Del Sanchez, M. R., Chavez, M., and Vilaclara, G. (1998). Effect on the Planktonic Community of the Chemical Program Used to Control Water Hyacinth (*Eichhornia crassipes*) in Guadalupe Dam, Mexico. *Aquat.Ecosyst.Health Manag.* 1: 333-343.

EcoReference No.: 83746

June 2010 ECOTOX run

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

Lusse, B., Schroeder, D., and Soeder, C. J. (1986). The Bromothymol-Blue Test: A Simple Algal Bioassay and Its Use for Herbicide Screening. *Arch.Hydrobiol.Suppl.* 73: 147-152.

EcoReference No.: 12947

Chemical of Concern: PAQT,DBAC,PQT,DQTBr; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT,NO CONTROL(PAQT,DBAC,PQT,DQTBr).

Ma, J. and Liang, W. (2001). Acute Toxicity of 12 Herbicides to the Green Algae *Chlorella pyrenoidosa* and *Scenedesmus obliquus*. *Bull.EnvIRON.Contam.Toxicol.* 67: 347-351 .

EcoReference No.: 61984

Chemical of Concern: GFS,CZE,ACO,TFN,FTS,CRME,BSFM,CLT,MTL,BMN; Habitat: A; Effect Codes: POP; Code: LITE EVAL CODED(GFS,FTS,CLT,MTL,TFN),NO COC(MCPP1,DQTBr).

MacDonald, G. E., Querns, R., Shilling, D. G., McDonald, S. K., and Bewick, T. A. (2002). Activity of Endothall on *Hydrilla*. *J.Aquat.Plant Manag.* 40: 68-71.

EcoReference No.: 69621

Chemical of Concern: EDT,SZ,DU,DQTBr; Habitat: A; Effect Codes: PHY,BCM; Code: NO ENDPOINT(SZ,DU),OK(EDT),NO ENDPOINT,NO CONTROL(DQTBr).

Madhu, C., Gregus, Z., and Klaassen, C. D. (1995). Simple Method for Analysis of Diquat in Biological Fluids and Tissues by High-Performance Liquid Chromatography. *J.Chromatogr.B* 674: 193-196.

EcoReference No.: 111845

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

Marshall, E. J. P. (1984). The Ecology of a Land Drainage Channel - II. Biology, Chemistry and Submerged Weed Control. *Water Res.* 18: 817-825.

EcoReference No.: 111222

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

Mayer, F. L. Jr. (1974). Pesticides as Pollutants. In: B.G.Liptak (Ed.), *Environmental Engineer's Handbook*, Chilton Book Co., Radnor, PA 405-418 (Publ in Part As 6797).

EcoReference No.: 70421

Chemical of Concern:

AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled,24DXY,PPG,TBT,TMP,DU,TCF,DCF,PQT,MLH,TFN,DQTBr,ATN; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(TBT,PPG,AND,CHD,DDT,DLD,ES,EN,HPT,TXP,DZ,CPY,PRN,CBL,ACL,ATZ,Cu,EDT,SZ,As,MLN,Captan,Naled,TMP,DU,TCF,DCF,PQT,MLH,TFN,DQTBr,24DXY,ATN),NO ENDPOINT(24DXY).

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

EcoReference No.: 6797

Chemical of Concern:

EDT,RSM,SZ,24DXY,ACP,ACR,ADC,ATM,ATN,ATZ,AZ,BS,CaPS,Captan,CBF,CBL,CMPH,CQTC,C PY,CuS,DBN,DCPA,DCTP,DDVP,DFZ,DMB,DMT,DOD,DPDP,DS,DU,DZ,FO,GYP,HCCH,HXZ,IGS,LNR,MBZ,MCPB,MDT,MLN,MLT,MOM,MP,MTL,NaN3,Naled,OML,OYZ,PCP,PEB,PAQT,PRT,PSM,

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Folpet,PYN,CYT,DMM,EFS,NAA,NTP,PMR,PPB,TFN,WFN,RSM,RTN,ALSV,Se,DBAC,Zn,As,MTPN,DCB,MTAS,OXD,PEPPG,TBF,CPYM,FLU,PPG,EPTC,TBO,PFF,TMP,TVPM,BSO,ZnS,ES,TCF,FNT,BMY,PPN,DCF,BTY,FDE,FBOX,EFV,PPX,MBTZ,DQTBr,OML; Habitat: A; Effect Codes: MOR,PHY; Code: LITE EVAL CODED(MTAS,MTPN,DCB,DZ,IGS,ATZ,MTL,MLT,CBF,ADC,MOM,PPB,SZ,DMT,WFN,RTN,CuS,DOD,NaN3,DMB,RSM,CaPS,MCPB,NaPCP,PCP,AMSV,ALSV,PRT,ATM,CQTC,ATN,DBAC),NO CONTROL(PMR,EPTC,PPG,GYP,LNR,PSM,DS,FLU,OYZ,24DXY,DPDP,CPYM,CPY,PEPPG,MP,Naled,BS,OXD,Captan,MLN,HXZ,TBF,TBO,CMPH,PFF,TMP,TVPM,BSO,DCTP,DU,ZnS,DCPA,OML,ACP,DDVP,ES,TCF,FNT,BMY,PPN,DCF,BTY,ACR,PQT,FDE,FBOX,EFV,TFN,PPX,MBTZ,DQTBr,DFZ),NO CONTROL(OML).

Mayer, H. G. (1981). Chemical Control of the Water Hyacinth (*Eichhornia crassipes* Solms) Considering Least Environmental Disturbance. *Acta Hydrochim.Hydrobiol.* 9: 57-68.

EcoReference No.: 108758

Chemical of Concern: AMT,DQTBr,PQT; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT(AMT,DQTBr,PQT).

Mekwatanakarn, P. and Sivasithamparam, K. (1987). Effect of Certain Herbicides on Growth and Pathogenicity of Take-All Fungus on Wheat (*Triticum aestivum* L.). *Biol.Fertil.Soils* 5: 31-35.

EcoReference No.: 97108

Chemical of Concern: CSF,DCPA,PAQT,GYPI,DMB,TFN,CTHM,DQT; Habitat: T; Effect Codes: GRO,POP; Code: LITE EVAL CODED(GYPI,DCPA),NO MIXTURE(PAQT,DQT).

Mekwatanakarn, P. and Sivasithamparam, K. (1987). Effect of Certain Herbicides on Saprophytic Survival and Biological Suppression of the Take-All Fungus. *New Phytol.* 106: 153-159.

EcoReference No.: 96994

Chemical of Concern: TFN,PAQT,GYP,DQT; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED(GYP),NO MIXTURE(PAQT,DQT),OK(TFN).

Mekwatanakarn, P. and Sivasithamparam, K. (1987). Effect of Certain Herbicides on Soil Microbial Populations and Their Influence on Saprophytic Growth in Soil and Pathogenicity of Take-All Fungus. *Biol.Fertil.Soils* 5: 175-180.

EcoReference No.: 97109

Chemical of Concern: GYPI,DMB,TFN,DCPA,DQT; Habitat: T; Effect Codes: POP,GRO; Code: LITE EVAL CODED(GYPI,DCPA),NO MIXTURE(DQT).

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,PDMS,DQTBr; Habitat: T; Effect Codes: MOR,PHY; Code: TARGET(DMB),NO ENDPOINT,NO CONTROL(24DXY,BMC,PDMS,DQTBr).

Miller, I. L., Norden, A. J., Knauff, D. A., and Gorbet, D. W. (1990). Influence of Maturity and Fruit Yield on Susceptibility of Peanut to *Cercosporidium personatum* (Late Leafspot Pathogen). *Peanut Sci.* 17: 52-58.

EcoReference No.: 92216

Chemical of Concern: CTN; Habitat: T; Effect Codes: POP; Code: TARGET,CROP(CTN),NO COC(DQTBr).

Minakata, K., Suzuki, O., Saito, S. I., and Harada, N. (1993). Ascorbate Radical Levels in Human Sera and Rat Plasma Intoxicated with Paraquat and Diquat. *Arch.Toxicol.* 67: 126-130.

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EcoReference No.: 106631

Chemical of Concern: PQT; Habitat: T; Effect Codes: GRO,BCM,ACC; Code: LITE EVAL CODED(PQT),NO COC(DQT).

Morrison, R. J. (1978). The Toxicity to Fish of Diaquat-Copper Sulphate Mixtures. *Fiji Agric.J.* 40: 105 (Author Communication Used).

EcoReference No.: 7110

Chemical of Concern: Cu,CuS,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(Cu,CuS,DQTBr).

Moss, J. L. (1978). Toxicity of Selected Chemicals to the Fairy Shrimp, *Streptocephalus seali*, Under Laboratory and Field Conditions. *Prog.Fish-Cult.* 40: 158-160 .

EcoReference No.: 6248

Chemical of Concern: HCCH,TCF,PQT,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT,NO CONTROL(TCF,PQT,DQTBr).

Murphy, K. J., Fox, A. M., and Hanbury, R. G. (1987). A Multivariate Assessment of Plant Management Impacts on Macrophyte Communities in a Scottish Canal. *J.Appl.Ecol.* 24: 1063-1079.

EcoReference No.: 111223; Habitat: A; Effect Codes: GRO; Code: NO COC(DQT).

Nakajima, M., Nagao, M., Iwasa, M., Monma-Ohtaki, J., Maeno, Y., Koyama, H., Seko-Nakamura, Y., Isobe, I., and Takatori, T. (2000). Purification and Characterization of Diquat (1,1'-Ethylene-2, 2'-Dipyridylum)-Metabolizing Enzyme from Paraquat-Resistant Rat Liver Cytosol. *Toxicology* 154: 55-66.

EcoReference No.: 106271

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: ACC,MOR; Code: NO ENDPOINT(PQT,DQTBr).

Nelson, L. S., Skogerboe, J. G., and Getsinger, K. D. (2001). Herbicide Evaluation Against Giant Salvinia. *J.Aquat.Plant Manag.* 39: 48-53.

EcoReference No.: 71381

Chemical of Concern: EDT,Cu,GYP,IZP,DQTBr; Habitat: A; Effect Codes: POP; Code: LITE EVAL CODED(IZP),NO MIXTURE(EDT),OK(Cu),NO ENDPOINT(GYP,DQTBr).

Newbold, C., French, M. C., and Brown, C. (1974). Ecological Effects of the Herbicides Diquat and Dichlobenil Within Pond Ecosystems. *In: Rep.Monks Wood Exp.Stn., Years 1972-1973* 29-33.

EcoReference No.: 16086

Chemical of Concern: DBN,DQT; Habitat: A; Effect Codes: ACC,MOR,POP; Code: NO ENDPOINT(DQT,DBN).

Newman, J. F. and Way, J. M. (1966). Some Ecological Observations on the Use of Paraquat and Diquat as Aquatic Herbicides. *Proc.8th Br.Weed Control Conf.*: 582-585.

EcoReference No.: 14769

Chemical of Concern: PAQT,DQT; Habitat: A; Effect Codes: POP,ACC; Code: LITE EVAL CODED(PAQT),NO ENDPOINT(DQT).

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

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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,DQTBBr; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT,NO

CONTROL(QOC,BS,CYA,EPTC,LNR,24DXY,BSO,DU,DCPA,PPN,PMT,ACR,PQT,TBC,TFN,DQTBBr)

Nishiuchi, Y. (1989). Toxicity of Pesticides to Some Aquatic Animals. XI. Toxicity of Some Pesticides to Tadpoles. *C.A.Sel.-Environ.Pollut.*18:3-72754Y (1990) / *Aquat.Ecol.Chem.(Seitai Kagaku)* 9: 23-26 (JPN).

EcoReference No.: 8589

Chemical of Concern: ACP,DFZ,TPR,PYN,DPP1,MLH,DQTBBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(ACP,DFZ,TPR,PYN,DPP1,MLH,DQTBBr).

Nishiuchi, Y. and Asano, K. (1979). Toxicity of Agricultural Chemicals to Some Freshwater 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,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,DQTBBr,TDC; Habitat: A; Effect Codes: MOR; 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,DQTBBr, TDC,BT).

Olaleye, V. F., Akintunde, E. A., and Akinyemiju, O. A. (1993). Effect of a Herbicidal Control of Water Hyacinth (*Eichhornia crassipes* Mart.) on Fish Composition and Abundance in the Kofawei Creek, Ondo State, Nigeria. *J.Environ.Manage.* 38: 85-97.

EcoReference No.: 17131

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

Palmer, J. S. (1972). Toxicity of 45 Organic Herbicides to Cattle, Sheep and Chickens. *Prod.Res.Rep.No.137, Agric.Res.Serv., U.S.Dep.of Agric., Washington, DC.*

EcoReference No.: 80557

Chemical of Concern:

24DXYEE,MCPB,MCPA,PEB,VNT,EPTC,MSMA,CCA,TFN,PAQT,DQTBBr,NPM,PYZ,DCPA,AMTL,D MDP,24D; Habitat: T; Effect Codes: GRO,MOR,BEH; Code: NO ENDPOINT(ALL CHEMS).

Paterson, D. M. and Wright, S. J. L. (1987). A Continuous-Flow Model Ecosystem for Studying Effects of Herbicides on Aquatic Plants. *Weed Sci.* 35: 704-710.

EcoReference No.: 13423

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

Pennington, T. G., Skogerboe, J. G., and Getsinger, K. D. (2001). Herbicide/Copper Combinations for Improved Control of *Hydrilla verticillata*. *J.Aquat.Plant Manag.* 39: 56-58.

EcoReference No.: 71361

Chemical of Concern: EDT,Cu,DQTBBr,EDTK; Habitat: A; Effect Codes: GRO; Code: NO ENDPOINT(DQTBBr),NO COC(EFED-Cu).

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Perez, V. I., Lew, C. M., Cortez, L. A., Webb, C. R., Rodriguez, M., Liu, Y., Qi, W., Li, Y., Chaudhuri, A., Van Remmen, H., Richardson, A., and Ikeno, Y. (2008). Thioredoxin 2 Haploinsufficiency in Mice Results in Impaired Mitochondrial Function and Increased Oxidative Stress. *Free Radic.Biol.Med.* 44: 882-892 (doi: 10.1016/j.freeradbiomed.2007.11.018).

EcoReference No.: 110878

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

Peschek, G. A. (1979). Anaerobic Hydrogenase Activity in *Anacystis nidulans* H₂-Dependent Photoreduction and Related Reactions. *Biochim.Biophys.Acta* 548: 187, 202 (doi: 10.1016/0005-2728(79)90128-2).

EcoReference No.: 112123

Chemical of Concern: DQT; Habitat: A; Effect Codes: BCM; Code: NO ENDPOINT(DQT).

Peterson, H. G., Boutin, C., Martin, P. A., Freemark, K. E., Ruecker, N. J., and Moody, M. J. (1994). Aquatic Phyto-Toxicity of 23 Pesticides Applied at Expected Environmental Concentrations. *Aquat.Toxicol.* 28: 275-292.

EcoReference No.: 13800

Chemical of Concern:

ACL,CBL,24DXY,SZ,CBF,ATZ,BMN,TPR,MBZ,GYP,TET,MTC,IZT,DMM,PCL,CSF,HXZ,DQTBr;
Habitat: A; Effect Codes: PHY,POP; Code: LITE EVAL
CODED(CBL,ATZ,CBF,MTL,SZ,PCZ,ACL),NO ENDPOINT(GYP,24DXY,HXZ,TET,TPR,DQTBr).

Peeverly, J. H. and Johnson, R. L. (1979). Nutrient Chemistry in Herbicide-Treated Ponds of Differing Fertility. *J.Environ.Qual.* 8: 294-300.

EcoReference No.: 9497

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

Poovey, A. G., Skogerboe, J. G., and Owens, C. S. (2002). Spring Treatments of Diquat and Endothall for Curlyleaf Pondweed Control. *J.Aquat.Plant Manag.* 40: 63-67.

EcoReference No.: 68288

Chemical of Concern: EDT,DQTBr; Habitat: A; Effect Codes: POP; Code: OK(EDT),NO ENDPOINT(DQTBr).

Portmann, J. E. (1972). Results of Acute Toxicity Tests with Marine Organisms, Using a Standard Method. In: *M.Ruivo (Ed.), Marine Pollution and Sea Life, FAO, Rome, Italy / Fishing News (Books) Ltd., London, England* 212-217 (Author Communication Used).

EcoReference No.: 9258

Chemical of Concern:

Maneb,Zn,NYP,Fe,Cr,Cu,ACY,MLN,FML,SZ,DDT,PL,PRN,MCRE,HCCH,ATZ,DLD,PAQT,AZ,Hg,DQ
TBr,ES,Ni,PQT; Habitat: A; Effect Codes: MOR; Code: LITE EVAL
CODED(AZ,ATZ,SZ,Cu,Cr),OK(ALL CHEMS),NO CONTROL(MLN,Maneb,Zn,ES,PQT,DQTBr).

Portmann, J. E. and Wilson, K. W. (1971). The Toxicity of 140 Substances to the Brown Shrimp and Other Marine Animals. *Shellfish Information Leaflet No.22 (2nd Ed.), Ministry of Agric.Fish.Food, Fish.Lab.Burnham-on-Crouch, Essex, and Fish Exp.Station Conway, North Wales* 12 p.

EcoReference No.: 906

Chemical of Concern:

SZ,24DXY,ATZ,AZ,DBN,DMT,MLN,CuS,CrAC,SFL,HgCl₂,NYP,Cd,Pb,Maneb,DDT,FML,PRN,EPRN,
DLD,DPDP,PAQT,PL,ACY,ES,HCCH,MCRE,Tl,PQT,HCL,SUA,NaCl,DQTBr; Habitat: A; Effect
Codes: MOR; Code: LITE EVAL CODED(AZ,ATZ,SZ,DMT,CuS,CrAC),NO

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CONTROL(SFL,24DXY,DPDP,MLN,MZB,Maneb,CIT,ACAC,NaOH,ES,PQT,HCL,SUA,NaCl,DQTBr).

Pratt, I. S., Keeling, P. L., and Smith, L. L. (1980). The Effect of High Concentrations of Oxygen on Paraquat and Diquat Toxicity in Rats. *Arch.Toxicol.Suppl.* 4: 415-418.

EcoReference No.: 110582

Chemical of Concern: PAQT,DQT; Habitat: T; Effect Codes: MOR,CEL; Code: NO ENDPOINT,NO CONTROL(PAQT,DQT).

Pratt, J. R. and Barreiro, R. (1998). Influence of Trophic Status on the Toxic Effects of a Herbicide: A Microcosm Study. *Arch.Environ.Contam.Toxicol.* 35: 404-411.

EcoReference No.: 111225

Chemical of Concern: DQT; Habitat: A; Effect Codes: POP,BCM,ACC; Code: NO ENDPOINT(DQT).

Quinn, S. A., Cardarelli, N. F., and Gangstad, E. O. (1977). Aquatic Herbicide Chronicity. *J.Aquat.Plant Manage.* 15: 74-76.

EcoReference No.: 7527

Chemical of Concern: 24DXY,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT,NO CONTROL(24DXY,DQTBr).

Ramanujam, T., Nagarajan, M., Sethuraman, S., and Pillaiyar, P. (1979). Desiccation of Paddy Crop with Gramoxone (Paraquat) and Reglone (Diquat). *Pesticides* 13: 40-44.

EcoReference No.: 106101

Chemical of Concern: PQT,DQTBr; Habitat: AT; Effect Codes: PHY; Code: NO ENDPOINT(PQT,DQTBr).

Rodgers, J. H. Jr., Dunn, A., and Robison, R. (1992). Guntersville Reservoir Herbicide Monitoring Survey 1990. TVA/WR-92/20, Tennessee Valley Authority, U.S.Army Corps of Engineers 170 p. (U.S. NTIS# DE93040423).

EcoReference No.: 110823

Chemical of Concern: Cu,EDT,FDE,DQTBr; Habitat: A; Effect Codes: ACC; Code: OK(FDE,EDT),NO MIXTURE(DQTBr,Cu).

Romney, D. H. (1964). Observations on the Effect of Herbicides on Young Coconuts. *Weed Res.* 4: 24-30.

EcoReference No.: 42152

Chemical of Concern: PQT,DQTBr,MCPB,AMTL,24DXY; Habitat: T; Effect Codes: PHY,GRO; Code: NO ENDPOINT(MCPB,AMTL,24DXY),NO MIXTURE(PQT),NO ENDPOINT,NO CONTROL(DQTBr).

Rose, M. S., Crabtree, H. C., Fletcher, K., and Wyatt, I. (1974). Biochemical Effects of Diquat and Paraquat. Disturbance of the Control of Corticosteroid Synthesis in Rat Adrenal and Subsequent Effects on the Control of Liver Glycogen Utilization. *Biochem.J.* 138: 437-443.

EcoReference No.: 38572

Chemical of Concern: PQT,NaCl; Habitat: T; Effect Codes: BCM; Code: NO COC(DQT,PQT,NaCl).

Rose, M. S. and Smith, L. L. (1977). Tissue Uptake of Paraquat and Diquat. *Gen.Pharmacol.* 8: 173-176.

EcoReference No.: 107703

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Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: ACC; Code: NO ENDPOINT,NO CONTROL(PAQT,DQTBr).

Rose, M. S., Smith, L. L., and Wyatt, I. (1976). The Relevance of Pentose Phosphate Pathway Stimulation in Rat Lung to the Mechanism of Paraquat Toxicity. *Biochem.Pharmacol.* 25: 1763, 1767 (doi: 10.1016/0006-2952(76)90412-3).

EcoReference No.: 111044

Chemical of Concern: PQT; Habitat: T; Effect Codes: ACC,PHY,BCM; Code: OK(PQT),NO COC(DQT).

Schmehl, M. K., Vazquez, I. A., and Graham, E. F. (1986). The Effects of Nonpenetrating Cryoprotectants Added to TEST-Yolk-Glycerol Extender on the Post-Thaw Motility of Ram Spermatozoa. *Cryobiology* 23: 512, 517 (doi: 10.1016/0011-2240(86)90060-X).

EcoReference No.: 110966; Habitat: T; Effect Codes: REP; Code: NO COC(DQTBr).

Schultz, I. R., Hayton, W. L., and Kemmenoe, B. H. (1995). Disposition and Toxicokinetics of Diquat in Channel Catfish. *Aquat.Toxicol.* 33: 297-310.

EcoReference No.: 16120

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

See, C. L. (1976). The Effect of Sublethal Concentrations of Selected Toxicants on the Negative Phototactic Response of *Dugesia tigrina*. *Ph.D.Thesis, Virginia Polytechnic Institute and State University, Blacksburg, VA* 79.

EcoReference No.: 6154

Chemical of Concern: CuS,Cd,Zn,Ni,DQTBr; Habitat: A; Effect Codes: MOR,BEH; Code: LITE EVAL CODED(CuS),NO CONTROL(DQTBr).

Sharp, C. W., Ottolenghi, A., and Posner, H. S. (1972). Correlation of Paraquat Toxicity with Tissue Concentrations and Weight Loss of the Rat. *Toxicol.Appl.Pharmacol.* 22: 241-251.

EcoReference No.: 38733

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: ACC,GRO,MOR; Code: LITE EVAL CODED(PQT),NO ENDPOINT(DQTBr).

Shaw, B. and Hopke, P. K. (1975). The Dynamics of Diquat in a Model Eco-system. *Environ.Lett.* 8: 325-335.

EcoReference No.: 8199

Chemical of Concern: SZ,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(SZ),NO ENDPOINT,NO CONTROL(DQTBr).

Siltanen, H. and Rosenberg, C. (1975). Investigations on Pesticide Residues, 1974. *Publs.of the State Inst.of Agric.Chem., 10, Helsinki, Finland, State Inst.of Agric.Chem.*: 59 p.

EcoReference No.: 112141

Chemical of Concern:

CQTC,TBZ,TRB,PCH,PHMD,MTZ,LNR,CPP,FRT,TPM,Maneb,DINO,BMY,NCTN,Naled,MXC,MAL,F TT,FNT,ES,DMT,GYP,CBD,FTF,OXC,MLN,DQT,DFQ; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(DFQ,DQT,MLN,OXD,TCF,CBD,GYP,CQTC,TBZ,PHMD,LNR,TFR,Maneb,BMY,NCTN,Naled,MAL,FNT,ES,DMT,FTT).

Siltanen, H. and Rosenberg, C. (1976). Investigations on Pesticide Residues, 1975. *In: Publs.of the State Inst.of Agric.Chem., Helsinki, Finland, State Inst.of Agric.Chem.* 11: 63 p.

June 2010 ECOTOX run

EcoReference No.: 112140

Chemical of Concern:

EPH,DMZ,CQTC,PCH,PHMD,MTZ,MCPA,LNR,EFS,CZE,BMN,ATZ,TFR,TYF,TPE,TBA,MEM,Maneb,MZB,DINO,BMY,Naled,MXC,ES,TFN,PMT,GYP,ETU,CBD,TCF,DCF,DZ,AZ,DFQ,DQT; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(EPH,DMZ,DQT,DFQ,AZ,DZ,DCF,TCF,CBD,ETU,GYP,PMT,TFN,CQTZ,,PHMD,LNR,ATZ,TFR,Maneb,MZB,BMY,Naled,ES).

Siltanen, H. and Rosenberg, C. (1978). Residue Analyses of the Official Testing of Pesticides, 1977. *Report No.15, Pubs.of the State Inst.of Agric.Chem., Helsinki, Finland, State Inst.of Agric.Chem.* 69 p.

EcoReference No.: 112139

Chemical of Concern:

EPH,PHMD,MBZ,MCP1,MCPA,DMB,TFR,TDF,TYF,TPZ,TBA,MEM,IPD,ILL,DINO,BMY,ANZ,OML,MXC,FNT,BRSM,AZ,PDM,GYP,24D,VCZ,CBD,CAP,TCF,PMR,MLN,DCF,CBF,DQT,DFQ; Habitat: T; Effect Codes: ACC; Code: NO CONTROL,NO ENDPOINT(DFQ,DQT,CBF,DCF,MLN,PMR,TCF,CAP,CBD,VCZ,24D,GYP,PDM,EPH,PHMD,MCP1,DMB,TFR,TDF,IPD,BMY,OML,FNT,BRSM,AZ).

Smith, C. V. (1987). Evidence for Participation of Lipid Peroxidation and Iron in Diquat-Induced Hepatic Necrosis In Vivo. *Mol.Pharmacol.* 32: 417-422.

EcoReference No.: 110949

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

Smith, C. V., Hughes, H., Lauterburg, B. H., and Mitchell, J. R. (1985). Oxidant Stress and Hepatic Necrosis in Rats Treated with Diquat. *J.Pharmacol.Exp.Ther.* 235: 172-177.

EcoReference No.: 110937; Habitat: T; Effect Codes: BCM,CEL; Code: NO COC(DQT).

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

EcoReference No.: 42221

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

Smith, L. L. and Rose, M. S. (1977). A Comparison of the Effects of Paraquat and Diquat on the Water Content of Rat Lung and the Incorporation of Thymidine into Lung DNA. *Toxicology* 8: 223-230.

EcoReference No.: 110235

Chemical of Concern: PQT; Habitat: T; Effect Codes: CEL; Code: OK(PQT),NO COC(DQT).

Smith, L. L., Rose, M. S., and Wyatt, I. (1977). The Relevance of Free Radical Formation in the Rat Lung to the Mechanism of Paraquat Toxicity. *Proc.Eur.Soc.Toxicol.* 18: 206-208.

EcoReference No.: 106131

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

Smith, S. N., Lyon, A. J. E., and Sahid, I. B. (1976). The Breakdown of Paraquat and Diquat by Soil Fungi. *New Phytol.* 77: 735-740.

EcoReference No.: 106097

June 2010 ECOTOX run

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: GRO,ACC,PHY; Code: NO ENDPOINT(PQT,DQTBr).

Spencer-Jones, D. (1994). Some Observations on the Use of Herbicides for Control of *Crassula helmsii*. In: I.C.De Waal, et al.(Eds.), *Landscape Ecology Series: Ecology and Management of Invasive Riverside Plants*, John Wiley and Sons Ltd., Chichester, England 15-18.

EcoReference No.: 112121

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: GRO,POP; Code: NO ENDPOINT,NO CONTROL(DQT,DBN).

Squires, V. R. (1963). Herbicides for the Selective Control of Barley Grass in Irrigated Clover Pastures. *Aust.J.Exp.Agric.* 3: 35-38.

EcoReference No.: 41060

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

Stevens, M. A. and Walley, J. K. (1966). Tissue and Milk Residues Arising from the Ingestion of Single Doses of Diquat and Paraquat by Cattle. *J.Sci.Food Agric.* 17: 472-475.

EcoReference No.: 107323

Chemical of Concern: DQTBr,PQT; Habitat: T; Effect Codes: ACC,PHY; Code: NO ENDPOINT,NO CONTROL(DQTBr,PQT).

Steward, K. K. and Van, T. K. (1987). Comparative Studies of Monoecious and Dioecious *Hydrilla* (*Hydrilla verticillata*) Biotypes. *Weed Sci.* 35: 204-210.

EcoReference No.: 70771

Chemical of Concern: EDT,Cu,DQTBr; Habitat: A; Effect Codes: PHY; Code: NO ENDPOINT (DQTBr).

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

EcoReference No.: 70737

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

Surber, E. W. and Pickering, Q. H. (1962). Acute Toxicity of Endothal, Diquat, Hyamine, Dalapon, and Silvex to Fish. *Prog.Fish-Cult.* 24: 164-171.

EcoReference No.: 892

Chemical of Concern: EDT,DBAC,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(DQTBr),OK(EDT,DBAC).

Sutton, D. L., Haller, W. T., Steward, K. K., and Blackburn, R. D. (1972). Effect of Copper on Uptake of Diquat-14C by *Hydrilla*. *Weed Sci.* 20: 581-583.

EcoReference No.: 62088

Chemical of Concern: DQT; Habitat: A; Effect Codes: PHY,GRO; Code: NO CONTROL(DQT).

Sutton, D. L., Weldon, L. W., and Blackburn, R. D. (1970). Effect of Diquat on Uptake of Copper in Aquatic Plants. *Weed Sci.* 18: 703-707.

EcoReference No.: 9706

Chemical of Concern: CuS,DQTBr; Habitat: A; Effect Codes: GRO; Code: LITE EVAL

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CODED(CuS),NO ENDPOINT(DQTBr).

Tatum, W. M. and Blackburn, R. D. (1962). Preliminary Study of the Effects of Diquat on the Natural Bottom Fauna and Plankton in Two Subtropical Ponds. *Proc.South East Assoc.Game Fish.Comm.* 16: 301-307.

EcoReference No.: 4823

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

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

EcoReference No.: 67240

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

Tooby, T. E., Lucey, J., and Stott, B. (1980). The Tolerance of Grass Carp, *Ctenopharyngodon idella* Val., to Aquatic Herbicides. *J.Fish Biol.* 16: 591-597.

EcoReference No.: 575

Chemical of Concern: 24DXY,DU,GYP,PQT,DBN,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(GYP,24DXY,DU,PQT,DQTBr).

Tsokos-Kuhn, J. O., Smith, C. V., Hughes, H., and Mitchell, J. R. (1988). Liver Membrane Calcium Transport in Diquat-Induced Oxidative Stress In Vivo. *Mol.Pharmacol.* 34: 209-214.

EcoReference No.: 110950; Habitat: T; Effect Codes: BCM; Code: NO COC(DQTBr).

Vaishampayan, A. (1984). Mutagenicity of a Bipyridylum Herbicide in an N₂-Fixing Cyanobacterium *Nostoc muscorum*. *Environ.Int.* 10: 285-290.

EcoReference No.: 110941

Chemical of Concern: STRP,DQTBr; Habitat: A; Effect Codes: GRO,PHY,POP; Code: NO ENDPOINT(STRP,DQTBr).

Vaishampayan, A. (1985). Potent Mutagenicity of a Bipyridylum Herbicide in a Nitrogen-Fixing Blue-Green Alga *Nostoc muscorum*. *Biochem.Physiol.Pflanz.* 180: 327-331.

EcoReference No.: 97695

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: GRO,CEL; Code: NO COC(PPG),NO ENDPOINT(DQTBr).

Van Rensen, J. J. S. (1975). Lipid Peroxidation and Chlorophyll Destruction Caused by Diquat During Photosynthesis in *Scenedesmus*. *Physiol.Plant.* 33: 42-46.

EcoReference No.: 67516

Chemical of Concern: DQT,DQTBr; Habitat: A; Effect Codes: BCM,PHY; Code: NO ENDPOINT(DQT,DQTBr).

Van, T. K. and Steward, K. K. (1985). The Use of Controlled-Release Fluridone Fibers for Control of Hydrilla (*Hydrilla verticillata*). *Weed Sci.* 34: 70-76.

EcoReference No.: 31381

Chemical of Concern: FDE,DQTBr; Habitat: A; Effect Codes: PHY,BCM,POP; Code: LITE EVAL CODED(FDE),NO ENDPOINT(DQTBr).

June 2010 ECOTOX run

Walsh, G. E. (1972). Effects of Herbicides on Photosynthesis and Growth of Marine Unicellular Algae. *Hyacinth Control J.* 10: 45-48 (Author Communication Used).

EcoReference No.: 9211

Chemical of Concern: EDT,SZ,24DXY,ATZ,DBN,DU,TFN,AMTR,PRO,PAQT,PQT,DQTBr; Habitat: A; Effect Codes: PHY,POP; Code: LITE EVAL CODED(PRO,ATZ,SZ),NO ENDPOINT,NO CONTROL(24DXY,DU,PAQT,TFN,DQTBr).

Waring, J. F., Jolly, R. A., Ciurlionis, R., Lum, P. Y., Praestgaard, J. T., Morfitt, D. C., Buratto, B., Roberts, C., Schadt, E., and Ulrich, R. G. (2001). Clustering of Hepatotoxins Based on Mechanism of Toxicity Using Gene Expression Profiles. *Toxicol.Appl.Pharmacol.* 175: 28-42.

EcoReference No.: 75023

Chemical of Concern: DQT,PCB,As,CTC,NSA; Habitat: T; Effect Codes: BCM,CEL,GRO; Code: NO ENDPOINT(DQT).

Wellborn, T. L. Jr. (1969). The Toxicity of Nine Therapeutic and Herbicidal Compounds to Striped Bass. *Prog.Fish-Cult.* 31: 27-32.

EcoReference No.: 909

Chemical of Concern: SZ,DU,24DXY,EDT,AMTR,DBN,Cu,CuS,OXT,TCF,DQTBr; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(SZ,CuS,OW-TRV-Cu),NO CONTROL(DU,OXT,TCF,DQTBr).

Whiting, T. L., Smyrl, T., Spearman, J. G., and Kernatz, S. (2001). Diquat Poisoning of Dairy Cattle by Topical Application. *Can.Vet.J.* 42: 799-801.

EcoReference No.: 111541

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

Wile, I. (1967). Aquatic Plant Control with Diquat, Fenac, and Simazine in Ontario Farm Ponds. *Publ.No.31, The Ontario Water Resour.Comm., Canada* 19 p.

EcoReference No.: 18488

Chemical of Concern: SZ,CBL,DQTBr; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

Wilson, D. C. (1968). The Effects of the Herbicides Diquat and Dichlobenil on Pond Invertebrates. *M.S.Thesis, Oregon State University, Corvallis, OR* 74 p.(Publ in Part As 893) (Author Communication Used).

EcoReference No.: 2598

Chemical of Concern: DBN,DQTBr; Habitat: A; Effect Codes: POP,MOR,PHY; Code: NO ENDPOINT(DQTBr).

Winger, P. V., Imlay, M. J., McMillan, W. E., Martin, T. W., Takekawa, J., and Johnson, W. W. (1984). Field and Laboratory Evaluation of the Influence of Copper-Diquat on Apple Snails in Southern Florida. *Environ.Toxicol.Chem.* 3: 409-424.

EcoReference No.: 10272

Chemical of Concern: DQTBr; Habitat: A; Code: NO CONTROL(DQTBr).

Witschi, H., Hirai, K. I., and Cote, M. G. (1977). Primary Events in Lung Following Exposure to Toxic Chemicals. *In: A.P.Autor (Ed.), Biochemical Mechanisms of Paraquat Toxicity, Academic Press, New York* 1-20.

EcoReference No.: 105037

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Chemical of Concern: PAQT; Habitat: T; Effect Codes: CEL,BCM; Code: LITE EVAL CODED(PAQT),NO COC(DQT).

Witschi, H., Kacew, S., Hirai, K. I., and Cote, M. G. (1977). In Vivo Oxidation of Reduced Nicotinamide-Adenine Dinucleotide Phosphate by Paraquat and Diquat in Rat Lung. *Chem.-Biol.Interact.* 19: 143-160.

EcoReference No.: 104795

Chemical of Concern: PQT,DQTBr; Habitat: T; Effect Codes: BCM,CEL,ACC; Code: LITE EVAL CODED(PQT),NO MIXTURE(DQTBr).

Woodiwiss, F. S. and Fretwell, G. (1974). The Toxicities of Sewage Effluents, Industrial Discharges and Some Chemical Substances to Brown Trout (*Salmo trutta*) in the Trent River Authority Area. *Water Pollut.Control* 73: 396-405.

EcoReference No.: 448

Chemical of Concern: HCCH,PQT,ACL,BNZ,MLH,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO CONTROL(HCCH,PQT,ACL,BNZ,MLH,DQTBr).

Yeo, R. R. (1967). Dissipation of Diquat and Paraquat, and Effects on Aquatic Weeds and Fish. *Weeds* 15: 42-46.

EcoReference No.: 4694

Chemical of Concern: PAQT,DQTBr; Habitat: A; Effect Codes: MOR; Code: NO ENDPOINT(PAQT,DQTBr).

Zelenkova, J. and Hurka, K. (1990). Carabids (Col., Carabidae) in the Epigeon of Pest Management Apple Orchards in South Bohemia. *Acta Soc.Zool.Bohem.* 54: 133-145 .

EcoReference No.: 77627

Chemical of Concern: TDF,FRM,GYP,DQTBr,PAQT,SZ,ATZ,PHSL; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT(ALL CHEMS).

Zweig, G., Hitt, J. E., and McMahon, R. (1968). Effect of Certain Quinones, Diquat, and Diuron on *Chlorella pyrenoidosa* Chick (Emerson Strain). *Weed Sci.* 16: 69-73.

EcoReference No.: 18867

Chemical of Concern: DU,QOC,DQTBr; Habitat: A; Effect Codes: BCM,POP,PHY; Code: NO ENDPOINT(QOC,DU,DQTBr).

On Order: Potentially Acceptable but Studies have not yet been Received

Adams, M. S. and Schulz, K. E. (1987). Concentration Effects of Diquat Herbicide on Selected Aquatic Macrophytes of Wisconsin. *Report, Dep.Bot., Univ.of Wisconsin, Madison, WI.*

Chemical of Concern: DQTBr; Habitat: A

Arriagn-Diaz, C. (1966). Some Effects of Diquat on Respiration and Amino Acid Metabolism in *Chlorella* and *Elodea*. *M.S.Thesis, Univ.of Calif., Davis, CA.*

Chemical of Concern: DQTBr; Habitat: A

Awad, J. A., Burk, R. F., and Roberts II, L. J. (1994). Effect of Selenium Deficiency and Glutathione-Modulating Agents on Diquat Toxicity and Lipid Peroxidation in Rats. *J.Pharmacol.Exp.Ther.* 270: 858-864.

Chemical of Concern: Se,DQTBr; Habitat: T

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Benigni, R., Bignami, M., Carere, A., Conti, G., Conti, L., Crebelli, R., Dogliotti, E., Gualandi, G., Novelletto, A., and Ortali, V. A. (1979). Mutational Studies with Diquat and Paraquat In Vitro. *Mutat.Res.* 68: 183-193.

Chemical of Concern: PQT,DQTBr; Habitat: T

Budai, P., Somlyay, I. M., Varnagy, L. E., and Varga, T. (1995). Comparison of In Vitro (HET-CAM) and In Vivo (Draize) Irritation Tests Using Different Pesticides. *Meded.Fac.Landbouwk.Doegep.Biol.Wet.Univ.Gent* 60: 593-597.

Chemical of Concern: DQTBr; Habitat: T

Burk, R. F., Hill, K. E., Awad, J. A., Morrow, J. D., Kato, T., Cockell, K. A., and Lyons, P. R. (1995). Pathogenesis of Diquat-Induced Liver Necrosis in Selenium-Deficient Rats: Assessment of the Roles of Lipid Peroxidation and Selenoprotein P. *Hepatology* 21: 561-569.

Chemical of Concern: Se,DQTBr; Habitat: T

Burk, R. F. and Lane, J. M. (1983). Modification of Chemical Toxicity by Selenium Deficiency. *Fundam.Appl.Toxicol.* 3: 218, 221 (doi: 10.1016/S0272-0590(83)80129-8).

Chemical of Concern: DQTBr; Habitat: T

Davies, P. J. and Seaman, D. E. (1968). Uptake and Translocation of Diquat in Elodea. *Weed Sci.* 16: 293-295.

Chemical of Concern: DQTBr; Habitat: A

Deleire, M., Decat, W., and Bastin, R. (1975). Application of Six Biotests to the Detection of Herbicides in Water. *Rev.Agric.(Brussels)* 1: 27-38.

Chemical of Concern: DQTBr,BT; Habitat: AT

Fu, Y., Cheng, W., Porres, J., Ross, D., and Lei, X. (1999). Knockout of Cellular Glutathione Peroxidase Gene Renders Mice Susceptible to Diquat-Induced Oxidative Stress. *Free Radic.Biol.Med.* 27: 605-611.

Chemical of Concern: Se,TITLE DQTBr; Habitat: T

Fu, Y., Cheng, W., Ross, D., and Lei, X. (1999). Cellular Glutathione Peroxidase Protects Mice Against Lethal Oxidative Stress Induced by Various Doses of Diquat. *Proc.Soc.Exp.Biol.Med.* 222: 164-169.

Chemical of Concern: Se,DQTBr; Habitat: T

Higuchi, M., Kobayashi, S., Kawasaki, N., Hamaoka, K., Watabiki, S., Orino, K., and Watanabe, K. (2007). Protective Effects of Wheat Bran Against Diquat Toxicity in Male Fischer-344 Rats. *Biosci.Biotechnol.Biochem.* 71: 1621-1625.

Chemical of Concern: DQTBr; Habitat: T

Masuda, S., Deguchi, Y., Masuda, Y., Watanabe, T., Nukaya, H., Terao, Y., Takamura, T., Wakabayashi, K., and Kinae, N. (2004-). Genotoxicity of 2-[2-(Acetylamino)-4-[bis(2-Hydroxyethyl)Amino]-5-Methoxyphenyl]-5-Amino-7-Bromo-4-Chloro-2H-Benzotriazole (PBTA-6) and 4-Amino-3,3'-Dichloro-5,4'-Dinitro-Biphenyl (ADDB) in Goldfish (*Carassius auratus*) Using the Micronucleus Test and the Comet Assay. *Mutat.Res.* 560: 33-40.

Chemical of Concern: DQTBr; Habitat: A

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Rawlings, J. M., Wyatt, I., and Heylings, J. R. (1994). Evidence for Redox Cycling of Diquat in Rat Small Intestine. *Biochem.Pharmacol.* 47: 1271, 1274 (doi: 10.1016/0006-2952(94)90401-4).

Chemical of Concern: DQTBr; Habitat: T

Riemer, D. N. (1964). Observations on Some Acid Water Lakes Treated with Diquat. *Proc.Northeast.Weed Control Conf.* 18: 489-495.

Chemical of Concern: DQTBr; Habitat: A

Robson, T. O, Fowler, M. C., and Barrett, P. R. F. (1976). Effect of Some Herbicides on Freshwater Algae. *Pestic.Sci.* 7: 391-402.

Chemical of Concern: DQTBr; Habitat: A

Salah El-Deen, M. A. and Rogers, W. A. (1993). Changes in Total Protein and Transaminase Activities of Grass Carp Exposed to Diquat. *J.Aquat.Anim.Health* 5: 280-286.

Chemical of Concern: DQTBr; Habitat: A

Shealy, M. H. and Shiflet, G. W. (1969). Acute Toxicity of Diquat to Largemouth Bass (*Micropterus salmoides* Lacepede) and Golden Shiners (*Notemigonus crysoleucas* Mitchell) in New York Waters. *Bull.S.C.Acad.Sci.* 31: 1-21.

Chemical of Concern: DQTBr; Habitat: A

Skea, J. C., Neuderfer, G., Symula, J., Aylesworth, G., and Miccoli, J. (1987). The Toxicity of Ortho-diquat to the Fry of Several Species of Warm Water Fish. *Tech.Rep.87-19BEP, N.Y.State Dep.of Environ.Conserv., Albany, NY.*

Chemical of Concern: DQTBr; Habitat: A

Smith, J. M. and Sagar, G. R. (1966). A Re-examination of the Influence of Light and Darkness on the Long-Distance Transport of Diquat in *Lycopersicon esculentum* Mill. *Weed Res.* 6: 314-321.

Chemical of Concern: DQTBr; Habitat: T

Stokes, D. M., Turner, J. S., and Markas, K. (1970). Effect of Diquat on *Chlorella*. II. Chlorophyll Bleaching and Plastid Structure. *Aust.J.Biol.Sci.* 23: 265.

Chemical of Concern: DQTBr; Habitat: A

Waring, J. F., Cavet, G., Jolly, R. A., McDowell, J., Dai, H., Ciurlionis, R., Zhang, C., Stoughton, R., Lum, P., Ferguson, A., Roberts, C. J., and Ulrich, R. G. (2003). Development of a DNA Microarray for Toxicology Based on Hepatotoxin-Regulated Sequences. *EHP Toxicogenomics* 111: 53-60.

Chemical of Concern: DQTBr; Habitat: T

Wile, I. (1968). Aquatic Plant Control with Diquat, Fenac, and Simazine in Ontario Farm Ponds. *Proc.Northeast.Weed Control Conf.* 22: 178-185.

Chemical of Concern: SZ,DQTBr; Habitat: A

Xu, J., Sun, S., Wei, W., Fu, J., Qi, W., Manchester, L. C., Tan, D. X., and Reiter, R. J. (2007). Melatonin Reduces Mortality and Oxidatively Mediated Hepatic and Renal Damage due to Diquat Treatment. *J.Pineal Res.* 42:

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166-171.

Chemical of Concern: DQTBr; Habitat: T

Yeo, R. R. and Dechoretz, N. (1976). Diquat and Copper-Ion Residues in Salmon-Spawning Channel. *Weed Sci.* 24: 405-409.

Chemical of Concern: DQTBr; Habitat: A

Target: Toxicity of Chemical on Intended Pest

Borkowski, J. (1973). Effect of Chemical "Reglone" and of Other Chemicals on the Defoliation of French Bean. *Biul Warzyw* 15: 185-211.

EcoReference No.: 26171

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

Brian, R. C. (1966). The Bipyridylum Quaternary Salts. The Effect of Atmospheric and Soil Humidity on the Uptake and Movement of Diquat and Paraquat in Plants. *Weed Res.* 6: 292-303.

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

Brian, R. C. (1969). The Influence of Darkness on the Uptake and Movement of Diquat and Paraquat in Tomatoes, Sugar-Beet, and Potatoes. *Ann.Appl.Biol.* 63: 117-126 .

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

Brian, R. C. (1967). The Uptake and Adsorption of Diquat and Paraquat by Tomato, Sugar-Beet, and Cocksfoot. *Ann.Appl.Biol.* 59: 91-99.

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

Coats, G. E. (1965). Studies on Translocation, Degradation and Persistence of Diquat and Paraquat. *M.S.Thesis, Auburn University, Auburn, AL* 67 p.

EcoReference No.: 57240

Chemical of Concern: PAQT,DQTBr; Habitat: A; Effect Codes: ACC,GRO; Code: OK(PAQT),TARGET(DQTBr).

Couch, R. W. and Davis, D. E. (1966). Effects of Atrazine, Bromacil, and Diquat on ¹⁴CO₂-Fixation in Corn, Cotton, and Soybeans. *Weeds* 14: 251-255.

Chemical of Concern: ATZ,DQTBr; Habitat: T; Code: TARGET (ATZ,DQTBr).

Dickeson, J. E. and Summers, L. A. (1969). On Electron Transfer Properties and Phytotoxicity of a Diquaternary Salt from 2,2': 6',2''-Terpyridine. *Experientia* 25: 1247-1248.

EcoReference No.: 25563

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

Dimitrov, B. and Gadeva, P. (1998). Genotoxic Effects of Five Pesticides in *Crepis capillaris* Root Meristem Cells. In: *I.Tsekos and M.Moustakas (Eds.).Prog.Bot.Res.Proc.Balk.Bot.Congr., 1st Meeting Date 1997, Kluwer, Dordrecht, Neth.* 477-480.

EcoReference No.: 93362

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Chemical of Concern: CPY,LNR,DQTBr; Habitat: T; Effect Codes: CEL; Code: LITE EVAL CODED(CPY),TARGET(LNR,DQTBr).

Dodge, A. D. (1971). The Mode of Action of the Bipyridylium Herbicides, Paraquat and Diquat. *Endeavour* 30: 130-135.

EcoReference No.: 26761

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

Douglas, G. (1968). The Influence of Size of Spray Droplets on the Herbicidal Activity of Diquat and Paraquat. *Weed Res.* 8: 205-212.

EcoReference No.: 25017

Chemical of Concern: PAQT,DQTBr; Habitat: T; Effect Codes: CEL,MOR; Code: TARGET(PAQT,DQTBr).

Eberbach, P. L. and Douglas, L. A. (1991). Effect of Herbicide Residues in a Sandy Loam on the Growth, Nodulation and Nitrogenase Activity (C₂H₂/C₂H₄) of Trifolium subterraneum. *Plant Soil* 131: 67-76.

EcoReference No.: 79710

Chemical of Concern: ATZ,AMTL,24DXY,DQTBr,DFPM,PAQT,TFN; Habitat: T; Effect Codes: GRO,BCM; Code: TARGET(ATZ,24DXY,PAQT,TFN,DQTBr).

Gummeson, G. (1976). Injuries to Field Crops Resulting from Diquat Herbicides. *In: Ogras Och Ograsbekampning, Svenska Ograskonf* 17: K19-K21.

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

Hulec, P. (1983). Use of Paraquat and Diquat for Desiccation on Grass Swards. *V Pr Pas by* 17: 167-174.

EcoReference No.: 32398

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

Ivany, J. A. and Sanderson, J. B. (2001). Response of Potato (*Solanum tuberosum*) Cultivars to Glufosinate-Ammonium and Diquat Used as Desiccants. *Weed Technol.* 15: 505-510.

EcoReference No.: 67079

Chemical of Concern: GFSNH,DQTBr; Habitat: T; Code: TARGET(GFSNH,DQTBr).

Milivojevic, D. B. and Nikolic, B. R. (1998). Effects of Diquat on Pigment-Protein Complexes of Thylakoid Membranes in Soybean and Maize Plants. *Biol.Plant.* 41: 597-600 .

EcoReference No.: 62898

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

Naerstad, R. H., Hermansen, A., and Bjor, T. (2007). Effect of Cultivar Resistance and Haulm Killing Method on Tuber Infection by *Phytophthora infestans*. *Potato Res.* 50: 157-173.

EcoReference No.: 111844

Chemical of Concern: DQT; Habitat: T; Effect Codes: POP; Code: TARGET(DQT).

Nicolas, M. E. and Turner, N. C. (1993). Use of Chemical Desiccants and Senescing Agents to Select Wheat Lines Maintaining Stable Grain Size During Post-Anthesis Drought. *Field Crops Res.* 31: 155-171.

EcoReference No.: 83314

June 2010 ECOTOX run

Chemical of Concern: KI,PAQT,DQTBr,NaClO; Habitat: T; Effect Codes: GRO,PHY,POP; Code: LITE EVAL CODED(KI),OK(ALL CHEMS), TARGET(PAQT,DQTBr).

Popov, A. P. and Mistiukova, N. P. (1979). Application of Reglone in Pome Orchard. *Sb Nauch Rb* 29: 67-69.

EcoReference No.: 31966

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

Rioux, R. (1983). The Effect of Nitrogen, Fertilization, Ethephon and Mineral Oil on Defoliation of Seed Potatoes with Diquat. *Phytoprotection* 64: 27-30.

EcoReference No.: 25280

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

Schneider, I. (1974). The Effect of Diquat on the Pigment Content of Pea Plants. *Arch.Phytopathol.Pflanzenschutz* 10: 405-408.

EcoReference No.: 26193

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

Smith, T. F., Noack, A. J., and Cosh, S. M. (1981). The Effect of Some Herbicides on Vesicular-Arbuscular Endophyte Abundance in the Soil and on Infection of Host Roots. *Pestic.Sci.* 12: 91-97.

EcoReference No.: 72606

Chemical of Concern: DU,PQT,TFN,DQTBr; Habitat: T; Effect Codes: GRO,POP,PHY,BCM; Code: TARGET(DU,PQT,TFN,DQTBr).

Stocker, R. K. and Haller, W. T. (1999). Residual Effects of Herbicide-Treated Eichhornia crassipes Used as a Soil Amendment. *Hydrobiologia* 415: 329-333.

EcoReference No.: 69383

Chemical of Concern: 24DC,GYP,DQTBr; Habitat: T; Code: TARGET(GYP,DQTBr).

Thrower, S. L., Hallam, N. D., and Thrower, L. B. (1965). Movement of Diquat (1,1'-Ethylene-2,2'-Bipyridylum) Dibromide in Leguminous Plants. *Ann.Appl.Biol.* 55: 253-260 .

EcoReference No.: 27643

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

Van Oorschot, J. L. P. (1964). Some Effects of Diquat and Simeone on CO₂-Uptake and Transpiration of Phaseolus vulgaris. In: *Proc.7th Br.Weed Control Conf., Brighton, England* 321-324.

EcoReference No.: 72366

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

Weaver, S., Downs, M., and Neufeld, B. (2004). Response of Paraquat-Resistant and -Susceptible Horseweed (Conyza canadensis) to Diquat, Linuron, and Oxfluorfen. *Weed Sci.* 52: 549-553.

Chemical of Concern: LNR,PAQT,DQTBr; Habitat: T; Code: TARGET(LNR,PAQT,DQTBr).

Zemanek, J. (1973). Effect of Paraquat and Diquat Application on Seed Germination of Weeds. *Ochr Rostln* 9: 300-301.

EcoReference No.: 29751

Chemical of Concern: PAQT,DQTBr; Habitat: T; Code: TARGET(PAQT,DQTBr).

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Diquat Dibromide Refresh Sept 2010 Papers that Were Accepted f

Accepted for Ecotox and OPP

Anguelov, A., Hvoynev, A., Anguelov, G., Belchev, L., and Christev, C. (1997). Changes in Protein Content and Activity of Aspartate and Alanine Aminotransferases in Carp (*Cyprinus carpio* L.) After Experimental Treatment with Herbicide Diquat. *Vet. Arh.* 67: 253-260.

EcoReference No.: 150569

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

Arsenault, W. J. and Ivany, J. A. (2001). Response of Several Potato Cultivars to Metribuzin and Diquat. *Crop Prot.* 20: 547-552.

EcoReference No.: 150500

Chemical of Concern: DQT,MBZ; Habitat: T; Effect Codes: GRO,PHY,POP; Code: LITE EVAL CODED (DQT,MBZ).

Bethke, P. C. and Busse, J. S. (2010). Vine-Kill Treatment and Harvest Date Have Persistent Effects on Tuber Physiology. *Am. J. Potato Res.* 87: 299-309.

EcoReference No.: 150357

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: PHY; Code: LITE EVAL CODED (DQTBr).

Bultemeier, B. W., Netherland, M. D., Ferrell, J. A., and Haller, W. T. (2009). Differential Herbicide Response Among Three Phenotypes of *Cabomba caroliniana*. *Invasive Plant Sci. Manag.* 2: 352-359.

EcoReference No.: 120275

Chemical of Concern: CFE,DMDP,DQT,EDTK,FMX,QNC,TPR; Habitat: A; Effect Codes: PHY; Code: LITE EVAL CODED (CFE,DMDP,DQT,EDTK,FMX,QNC,TPR), NO ENDPOINT (QNC).

Coats, G. E. (1965). Studies on Translocation, Degradation and Persistence of Diquat and Paraquat. *M.S.Thesis, Auburn University, Auburn, AL* 67 p.

EcoReference No.: 57240

Chemical of Concern: DQT,PAQT; Habitat: T; Effect Codes: ACC,GRO; Code: LITE EVAL CODED (DQT,PAQT).

Couch, R. W. and Davis, D. E. (1966). Effect of Atrazine, Bromacil, and Diquat on ¹⁴CO₂-Fixation in Corn, Cotton, and Soybeans. *Weeds* 14: 251-255.

EcoReference No.: 150502

Chemical of Concern: ATZ,BMC,DQT; Habitat: T; Effect Codes: BCM,PHY; Code: LITE EVAL CODED (ATZ,BMC,DQT).

Coutellec, M. A., Delous, G., Cravedi, J. P., and Lagadic, L. (2008). Effects of the Mixture of Diquat and a Nonylphenol Polyethoxylate Adjuvant on Fecundity and Progeny Early Performances of the Pond Snail *Lymnaea stagnalis* in Laboratory Bioassays and Microcosms. *Chemosphere* 73: 326-336.

EcoReference No.: 111957

September 2010 ECOTOX refresh

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

Dimitrov, B. and Gadeva, P. (1998). Genotoxic Effects of Five Pesticides in *Crepis capillaris* Root Meristem Cells. In: I.Tsekos and M.Moustakas (Eds.), *Prog.Bot.Res.Proc.Balk.Bot.Congr., 1st Meeting Date 1997, Kluwer, Dordrecht, Neth.* 477-480.

EcoReference No.: 93362

Chemical of Concern: CPY,DQTBr,LNR,MLH; Habitat: T; Effect Codes: CEL; Code: LITE EVAL CODED (CPY,DQTBr,LNR,MLH).

Druart, C., Scheifler, R., and De Vaufleury, A. (2010). Towards the Development of an Embryotoxicity Bioassay with Terrestrial Snails: Screening Approach for Cadmium and Pesticides. *J. Hazard. Mater. PRESS*: (DOI: 10.1016/j.jhazmat.2010.07.099).

EcoReference No.: 150358

Chemical of Concern: CdCl,DQTBr,GYP,GYPI; Habitat: T; Effect Codes: ACC,GRO,MOR; Code: LITE EVAL CODED (CdCl,DQTBr,GYP,GYPI).

Eberbach, P. L. and Douglas, L. A. (1991). Effect of Herbicide Residues in a Sandy Loam on the Growth, Nodulation and Nitrogenase Activity (C₂H₂/C₂H₄) of *Trifolium subterraneum*. *Plant Soil* 131: 67-76.

EcoReference No.: 79710

Chemical of Concern: 24D,24DXY,AMTL,ATZ,CSF,DFPM,DQT,PAQT,TFN; Habitat: T; Effect Codes: BCM,GRO,MOR; Code: LITE EVAL CODED (24D,24DXY,AMTL,ATZ,CSF,DFPM,DQT,PAQT,TFN).

Garten, C. T. Jr. and Frank, M. L. (1984). Comparison of Toxicity to Terrestrial Plants with Algal Growth Inhibition by Herbicides. *Interagency Agreement No.40-1067-80, Prepared for the U.S.EPA, Washington, D.C., by the Oak Ridge Natl.Lab., Oak Ridge, TN* 32 p.

EcoReference No.: 62406

Chemical of Concern:

24D,24DXY,ACR,AMTL,BFL,BMC,BMN,CCA,CuS,DQT,DSMA,LNR,NPM,PCL,SZ,TRL; Habitat: AT; Effect Codes: GRO,POP; Code: LITE EVAL CODED (24D,24DXY,ACR,AMTL,BFL,BMC,BMN,CCA,CuS,DQT,DSMA,LNR,NPM,PCL,SZ,TRL).

Glomski, L. M. and Netherland, M. D. (2007). Efficacy of Diquat and Carfentrazone-Ethyl on Variable-Leaf Milfoil. *J. Aquat. Plant Manag.* 45: 136-138.

EcoReference No.: 150504

Chemical of Concern: CFE,DQTBr; Habitat: A; Effect Codes: PHY,POP; Code: LITE EVAL CODED (CFE,DQTBr).

Gorzerino, C., Quemeneur, A., Hillenweck, A., Baradat, M., Delous, G., Ollitrault, M., Azam, D., Caquet, T., and Lagadic, L. (2009). Effects of Diquat and Fomesafen Applied Alone and in Combination with a Nonylphenol Polyethoxylate Adjuvant on *Lemna minor* in Aquatic Indoor Microcosms. *Ecotoxicol. Environ. Saf.* 72: 802-810.

EcoReference No.: 112666

Chemical of Concern: DQTBr,FSF,FSNa; Habitat: A; Effect Codes: GRO,PHY; Code: LITE EVAL CODED (DQTBr,FSF,FSNa).

Isgrigg III, J. (1999). Ecological Adaptations of Annual Bluegrass to Plant Growth Regulators and Herbicides. *Ph.D.Thesis, North Carolina State Univ, NC* 162 p. (UMI #9960156).

September 2010 ECOTOX refresh

EcoReference No.: 121125

Chemical of Concern:

ATZ,BFL,CPZ,DQT,DTP,FPD,FRM,GYP,MBZ,NONA,ODZ,OYZ,PBZ,PCZ,PDM,PRM,PZM,SFZ,SZ,TXE; Habitat: T; Effect Codes: BCM,GRO,PHY,POP; Code: LITE EVAL CODED (ATZ,BFL,DQT,DTP,FPD,FRM,GYP,MBZ,ODZ,OYZ,PBZ,PDM,PRM,PZM,SFZ,SZ,TXE), NO MIXTURE (CPZ,NONA,PCZ), OK (ATZ,OYZ).

Kashian, D. R. and Dodson, S. I. (2002). Effects of Common-Use Pesticides on Developmental and Reproductive Processes in Daphnia. *Toxicol. Ind. Health* 18: 225-235 .

EcoReference No.: 93397

Chemical of Concern:

24D,24DXY,ACO,ACR,AMZ,CSF,CZE,DDE,DDT,DFZ,DQT,LNR,MBZ,MTL,PHTH,TXP; Habitat: A; Effect Codes: GRO,MOR,REP; Code: LITE EVAL CODED (24D,24DXY,ACO,ACR,AMZ,CSF,CZE,DDE,DDT,DDT,DFZ,DQT,LNR,MBZ,MTL,MTL,PHTH,PHT H,TXP).

Lawrence, J. M. (1965). Graphic Presentation of Aquatic Herbicide Data. *Proc. South. Weed Conf.* 18: 568-573.

EcoReference No.: 14132

Chemical of Concern: DQT,LNR,PAQT,SZ; Habitat: A; Effect Codes: MOR,POP; Code: LITE EVAL CODED (DQT,LNR,PAQT,SZ).

Mudge, C. R., Koschnick, T. J., and Haller, W. T. (2007). Ornamental Plant Susceptibility to Diquat in Overhead Irrigation Water . *J. Aquat. Plant Manag.* 45: 40-43.

EcoReference No.: 150506

Chemical of Concern: DQT; Habitat: T; Effect Codes: GRO,MOR,PHY; Code: LITE EVAL CODED (DQT).

Naerstad, R. H., Hermansen, A., and Bjor, T. (2007). Effect of Cultivar Resistance and Haulm Killing Method on Tuber Infection by Phytophthora infestans. *Potato Res.* 50: 157-173.

EcoReference No.: 111844

Chemical of Concern: DQTBr,FNZ; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED (DQTBr,FNZ).

Nelson, L. S. and Shearer, J. F. (2009). Integrated Weed Management Strategies for Control of Hydrilla. *Technical Note, TN APCRP-CC-09. Army Engineer Waterways Experiment Station, Coastal Hydraulics Lab, Vicksburg, MS* 6 p.

EcoReference No.: 150224

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

Pandey, A. K. and Kanaujia, K. R. (2010). Effect of Different Insecticides, Fungicides and Herbicides on Growth, Sporulation and Germination of Fungi (Metarhizium anisopliae). *Indian J. Agricult. Sci.* 80: 265-268.

EcoReference No.: 150355

Chemical of Concern: 24D,24DXY,ATZ,BTC,BTN,DMT,DQT,MLN,PAQT,PCZ,PPHD,TDF; Habitat: T; Effect Codes: POP,REP; Code: LITE EVAL CODED (24D,24DXY,ATZ,BTC,BTN,DMT,DQT,MLN,PAQT,PCZ,PPHD,TDF), TARGET (BTN,PCZ,TDF).

Sprecher, S. L., Netherland, M. D., and Stewart, A. B. (1998). Phytoene and Carotene Response of Aquatic Plants to Fluridone Under Laboratory Conditions. *J. Aquat. Plant Manag.* 36: 111-120.

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EcoReference No.: 108049

Chemical of Concern: 24D,24DXY,CuEC,DQT,DQTBr,EDT,EDTK,FDE,TPR; Habitat: A; Effect Codes: BCM,GRO; Code: LITE EVAL CODED (24D,24DXY,CuEC,DQT,DQTBr,EDT,EDTK,FDE,TPR).

Sutton, D. L., Blackburn, R. D., and Steward, K. K. (1971). Influence of Herbicides on the Uptake of Copper in Hydrilla. *Weed Res.* 11: 99-105.

EcoReference No.: 117064

Chemical of Concern: 24D,24DXY,AMTR,ATZ,CuS,DBN,DQT,DU,PAQT; Habitat: A; Effect Codes: ACC,BCM,GRO; Code: LITE EVAL CODED (AMTR,CuS,CuS,DQT,PAQT), NO EFED CHEM (DBN), NO MIXTURE (24D,24DXY,ATZ,DBN,DU).

Weaver, S., Downs, M., and Neufeld, B. (2004). Response of Paraquat-Resistant and -Susceptible Horseweed (*Conyza canadensis*) to Diquat, Linuron, and Oxyfluorfen. *Weed Sci.* 52: 549-553.

EcoReference No.: 116049

Chemical of Concern: DQT,LNR,OXF; Habitat: T; Effect Codes: GRO,MOR,PHY; Code: LITE EVAL CODED (DQT,LNR,OXF), TARGET (OXF).

Wersal, R. M. and Madsen, J. D. (2009). Combinations of Diquat and a Methylated Seed Oil Surfactant for Control of Common Duckweed and Watermeal. *J. Aquat. Plant Manag.* 47: 59-62.

EcoReference No.: 150336

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

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Diquat Dibromide Refresh Papers that Were not Accepted

Accepted for EcoTox but not OPP

Bailey, D. R. (1969). The Effect of Post-Emergence Herbicides on the Vegetative and Reproductive Growth of *Centrosema Pubescens* Benth. in Queensland. *Weed Res.* 9: 9-19.

EcoReference No.: 42918

Chemical of Concern: 24DNH,24DXY,DQTBr; Habitat: T; Effect Codes: GRO,POP,REP; Code: NO CONTROL (24DNH,24DXY,DQTBr), NO ENDPOINT (24DNH,24DXY,DQTBr).

Baldwin, B. C. (1963). Translocation of Diquat in Plants. *Nature* 198: 872-873.

EcoReference No.: 41661

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: PHY; Code: NO ENDPOINT (DQTBr).

Baxter, P. (1977). Orchard Soil Management Trials. 3. Effect of Soil Fumigation and Soil Management on Replanted Apple Trees. *Aust. J. Exp. Agric. Anim. Husb.* 17: 510-514.

EcoReference No.: 79928

Chemical of Concern: AMTL,APAC,CuS,DQT,DZM,MB,PAQT,SZ; Habitat: T; Effect Codes: GRO,POP; Code: LITE EVAL CODED (DZM), NO MIXTURE (DQT,PAQT,SZ), OK (AMTL,APAC,CuS,MB).

Beligni, M. V. and Lamattina, L. (1999). Nitric Oxide Protects Against Cellular Damage Produced by Methylviologen Herbicides in Potato Plants. *Nitric Oxide* 3: 1-10.

EcoReference No.: 63999

Chemical of Concern: DQTBr,DU,PAQT; Habitat: T; Effect Codes: BCM,PHY; Code: NO ENDPOINT (DQTBr), NO IN VITRO (DU,PAQT), NO MIXTURE (DU).

Benigni, R., Bignami, M., Carere, A., Conti, G., Conti, L., Crebelli, R., Dogliotti, E., Gualandi, G., Novelletto, A., and Ortali, V. A. (1979). Mutational Studies with Diquat and Paraquat In Vitro. *Mutat. Res.* 68: 183-193.

EcoReference No.: 150645

Chemical of Concern: DQTBr,PQT; Habitat: T; Effect Codes: CEL,POP; Code: NO ENDPOINT (DQTBr,PQT).

Bokov, A. F., Lindsey, M. L., Khodr, C., Sabia, M. R., and Richardson, A. (2009). Long-Lived Ames Dwarf Mice are Resistant to Chemical Stressors. *J.Gerontol.A Biol.Sci.* 64: 819-827.

EcoReference No.: 150361

Chemical of Concern: DQTBr,PQT; Habitat: T; Effect Codes: BCM,GRO,MOR,PHY; Code: NO CONTROL (DQTBr,PQT), NO ENDPOINT (DQTBr), NO EXP TYPE (DQTBr,PQT).

Brian, R. C. (1966). The Bipyridylum Quaternary Salts. The Effect of Atmospheric and Soil Humidity on the Uptake and Movement of Diquat and Paraquat in Plants. *Weed Res.* 6: 292-303.

EcoReference No.: 150576

Chemical of Concern: DQTBr,PDMS; Habitat: T; Effect Codes: ACC,PHY; Code: NO CONTROL (DQTBr,PDMS), NO ENDPOINT (DQTBr,PDMS).

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Brian, R. C. (1967). The Uptake and Adsorption of Diquat and Paraquat by Tomato, Sugar Beet and Cocksfoot. *Ann. Appl. Biol.* 59: 91-99.

EcoReference No.: 150571

Chemical of Concern: DQT,PAQT; Habitat: T; Effect Codes: ACC; Code: NO CONTROL (DQT,PAQT), NO ENDPOINT (DQT,PAQT).

Brian, R. C. and Ward, J. (1967). The Influence of Environment on Potato Haulm Kill by Diquat and on Its Residues in the Tubers. *Weed Res.* 7: 117-130.

EcoReference No.: 150577

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

Bulloch, B. T. and Gilchrist, A. N. (1989). Effects of Some Herbicide Regimes on the First Season's Growth of Alders (*Alnus* spp.). *N. Z. J. Crop Hortic. Sci.* 17: 35-39.

EcoReference No.: 70518

Chemical of Concern: AMTL,CPR,DQT,DU,GYPL,LNR,NPP,OXF,PAQT,SZ,TBZ; Habitat: T; Effect Codes: GRO,POP; Code: NO MIXTURE (DQT,PAQT,TBZ), OK (AMTL,CPR,DU,LNR,NPP,OXF,SZ).

Burk, R. F., Hill, K. E., Awad, J. A., Morrow, J. D., Kato, T., Cockell, K. A., and Lyons, P. R. (1995). Pathogenesis of Diquat-Induced Liver Necrosis in Selenium-Deficient Rats: Assessment of the Roles of Lipid Peroxidation and Selenoprotein P. *Hepatology* 21: 561-569.

EcoReference No.: 150524

Chemical of Concern: CTC,DQTBr; Habitat: T; Effect Codes: BCM; Code: NO EXP TYPE (DQTBr), OK (CTC).

Burk, R. F. and Lane, J. M. (1983). Modification of Chemical Toxicity by Selenium Deficiency. *Fundam. Appl. Toxicol.* 3: 218, 221 (doi: 10.1016/S0272-0590(83)80129-8).

EcoReference No.: 150501

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,CEL,MOR; Code: NO CONTROL (DQT), NO EXP TYPE (DQT).

Clark, D. G. and Hurst, E. W. (1970). The Toxicity of Diquat. *Br. J. Ind. Med.* 27: 51-55.

EcoReference No.: 150525

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: MOR,PHY; Code: NO CONTROL (DQTBr).

Davies, P. J. and Seaman, D. E. (1968). Uptake and Translocation of Diquat in Elodea. *Weed Sci.* 16: 293-295.

EcoReference No.: 150503

Chemical of Concern: DQT; Habitat: A; Effect Codes: ACC,PHY; Code: NO ENDPOINT (DQT).

Douglas, G. (1968). The Influence of Size of Spray Droplets on the Herbicidal Activity of Diquat and Paraquat. *Weed Res.* 8: 205-212.

EcoReference No.: 25017

Chemical of Concern: DQTBr,PQT; Habitat: T; Effect Codes: CEL,PHY; Code: NO CONTROL (DQTBr,PQT), NO ENDPOINT (DQTBr,PQT).

Fu, Y., Cheng, W. H., Porres, J. M., Ross, D. A., and Lei, X. G. (1999). Knockout of Cellular Glutathione Peroxidase

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Gene Renders Mice Susceptible to Diquat-Induced Oxidative Stress. *Free Radic. Biol. Med.* 27: 605-611.

EcoReference No.: 150575

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,MOR; Code: NO EXP TYPE (DQTBr).

Fu, Y., Cheng, W. H., Ross, D. A., and Lei, X. G. (1999). Cellular Glutathione Peroxidase Protects Mice Against Lethal Oxidative Stress Induced by Various Doses of Diquat. *Proc. Soc. Exp. Biol. Med.* 222: 164-169.

EcoReference No.: 150522

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,MOR; Code: NO CONTROL (DQT), NO ENDPOINT (DQT), NO EXP TYPE (DQT).

Gummeson, G. (1976). Dessication with Diquat. In: *Ogreas och Ogreasbekeampning: 17e svenska ogreaskonferensen, Jan.29-30, 1976, Uppsala K14 - K16.*

EcoReference No.: 41051

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,POP,REP; Code: NO ENDPOINT (DQTBr).

Harrington, K. C. (1993). Herbicide Tolerance of Three Ground Cover Species with Potential for Use in Orchards. *Proc. 46th N. Z. Plant Prot. Conf.* 11-14.

EcoReference No.: 120532

Chemical of Concern:

AMTL,ASM,CPR,DBN,DMDP,DQT,DU,GFS,GYP,LNR,MCPA,NFZ,ODZ,OXC,OXF,OYZ,PAQT,PD M,SZ,TNM,TRB; Habitat: T; Effect Codes: POP; Code: LITE EVAL CODED (AMTL,ASM,CPR,DBN,DMDP,DU,GFS,GYP,MCPA,NFZ,ODZ,OXC,OXF,OYZ,PDM,SZ,TNM,TRB), NO EFED CHEM (DBN), NO MIXTURE (DQT,LNR,PAQT).

Harrington, K. C. and Zhang, T. (1997). Herbicides for Controlling Weeds in Mercury Bay Weed. *Proc. N. Z. Plant Prot. Conf.* 50: 462-466.

EcoReference No.: 120479

Chemical of Concern:

24D,24DXY,AMTL,ASM,CPP,CPR,CSF,DMB,DMDP,DQT,DU,GFS,GFSNH,GYP,GYPI,LNR,MCPA, MCPP2,NFZ,ODZ,OXF,OYZ,PDM,PQT,SZ,TBNU,TN,TNM,TPR,TPRB; Habitat: T; Effect Codes: GRO,POP; Code: LITE EVAL CODED (24D,24DXY,AMTL,ASM,CPP,CPR,CSF,DMB,DMDP,DU,GFS,GFSNH,GYP,GYPI,LNR,MCPA,MCP P2,MCPP2,NFZ,ODZ,OXF,OYZ,OYZ,PDM,SZ,TBNU,TNM,TPR,TPRB), NO MIXTURE (DQT,PQT).

Higuchi, M., Kobayashi, S., Kawasaki, N., Hamaoka, K., Watabiki, S., Orino, K., and Watanabe, K. (2007). Protective Effects of Wheat Bran Against Diquat Toxicity in Male Fischer-344 Rats. *Biosci. Biotechnol. Biochem.* 71: 1621-1625.

EcoReference No.: 150611

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,GRO,MOR; Code: NO EXP TYPE (DQTBr).

Hong, J. Y., Lebofsky, M., Farhood, A., and Jaeschke, H. (2009). Oxidant Stress-Induced Liver Injury In Vivo: Role of Apoptosis, Oncotic Necrosis, and C-Jun NH2-Terminal Kinase Activation. *Am. J. Physiol. Gastrointest. Liver Physiol.* 296: 572-581.

EcoReference No.: 150359

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: BCM,CEL,PHY; Code: NO EXP TYPE (DQTBr).

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Ivany, J. A. and Sanderson, J. B. (2001). Response of Potato (*Solanum tuberosum*) Cultivars to Glufosinate-Ammonium and Diquat Used as Desiccants. *Weed Technol.* 15: 505-510.

EcoReference No.: 67079

Chemical of Concern: DQT,GFSNH; Habitat: T; Effect Codes: GRO,POP; Code: NO ENDPOINT (DQT,GFSNH).

Krieger, R. I. and Lee, P. W. (1973). Inhibition of In Vivo and In Vitro Epoxidation of Aldrin, and Potentiation of Toxicity of Various Insecticide Chemicals by Diquat in Two Species of Fish. *Arch. Environ. Contam. Toxicol.* 1: 112-121 (Used 2775 As Ref.).

EcoReference No.: 8894

Chemical of Concern: AND,CBL,DDT,DQT,EPRN,PRN; Habitat: A; Effect Codes: MOR,PHY; Code: LITE EVAL CODED (AND,CBL,DDT,EPRN,PRN), NO CONTROL (AND,CBL,DDT,DQT,EPRN,PRN), NO MIXTURE (DQT).

Lee, W. O. (1975). Control of Winter Annual Weeds in White Clover Raised for Seed. *Weed Sci.* 23: 441-444.

EcoReference No.: 41823

Chemical of Concern: DBN,DQTBr,PDMS,PZM; Habitat: T; Effect Codes: GRO; Code: NO CONTROL (DBN,DQTBr,PDMS,PZM), NO EFED CHEM (DBN), NO ENDPOINT (DBN,DQTBr,PDMS,PZM).

Marva, F., Lopez-Rodas, V., Rouco, M., Navarro, M., Toro, F. J., Costas, E., and Flores-Moya, A. (2010). Adaptation of Green Microalgae to the Herbicides Simazine and Diquat as Result of Pre-Selective Mutations. *Aquat. Toxicol.* 96: 130-134.

EcoReference No.: 120540

Chemical of Concern: DQTBr,SZ; Habitat: A; Effect Codes: POP; Code: NO ENDPOINT (DQTBr,SZ).

Pearce, G. A. (1964). The Effect of Herbicides on Doublegee and Associated Pasture Species. *Aust. J. Exp. Agric. Anim. Husb.* 4: 185-188.

EcoReference No.: 42248

Chemical of Concern: AMTR,ATZ,DMB,DQTBr,PMT; Habitat: T; Effect Codes: MOR,PHY; Code: NO CONTROL (AMTR,ATZ,DMB,DQTBr,PMT), NO ENDPOINT (AMTR,ATZ,DMB,DQTBr,PMT).

Pirie, A., Rees, J. R., and Holmberg, N. J. (1969). Diquat Cataract in the Rat. *Biochem. J.* 114: 89.

EcoReference No.: 150420

Chemical of Concern: DQTBr; Habitat: T; Effect Codes: CEL,PHY; Code: NO CONTROL (DQTBr), NO ENDPOINT (DQTBr).

Pope, V. A. and McConville, P. N. (1990). Efficacy of Post-Emergence Herbicides for Weed Control in Chemical Fallows in Southern Queensland. *Aust. J. Exp. Agric.* 30: 79-82.

EcoReference No.: 117060

Chemical of Concern: 24D,24DXY,AMTL,AMTR,ATZ,DQTBr,GYP,IPAD,LNR,MCPAD,PQT; Habitat: T; Effect Codes: POP; Code: NO ENDPOINT (24D,24DXY,24DXY,24DXY,AMTL,AMTR,ATZ,DQTBr,GYP,IPAD,LNR,MCPAD,PQT), NO MIXTURE (DQTBr,PQT).

Purba, E., Preston, C., and Powles, S. B. (1993). Paraquat Resistance in a Biotype of *Vulpia bromoides* (L.) S.F. Gray. *Weed Res.* 33: 409-413.

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EcoReference No.: 150753

Chemical of Concern: DQT,GYP,MBZ,PAQT; Habitat: T; Effect Codes: MOR,POP,REP; Code: NO ENDPOINT (DQT,GYP,MBZ), OK (PAQT).

Riemer, D. N. (1964). Observations on Some Acid Water Lakes Treated with Diquat. *Proc. Northeast. Weed Control Conf.* 18: 489-495.

EcoReference No.: 150508

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: PHY,POP; Code: NO ENDPOINT (DQTBr).

Robson, T. O., Fowler, M. C., and Barrett, P. R. F. (1976). Effect of Some Herbicides on Freshwater Algae. *Pestic. Sci.* 7: 391-402.

EcoReference No.: 150523

Chemical of Concern: AMTR,ASM,CuS,DQT,PMT; Habitat: A; Effect Codes: MOR,PHY,POP; Code: NO ENDPOINT (AMTR,ASM,CuS,DQT,PMT).

Shibaya, T. (1985). Herbicides: Fruit Trees. *Jpn. Pestic. Inf.* 47: 28-30.

EcoReference No.: 117868

Chemical of Concern:

ACR,ASM,DBN,DQT,DU,FZP,GFS,GYP,LNR,NaClO,ODZ,PAQT,PPN,SXD,TFN; Habitat: T; Effect Codes: NOC; Code: NO CONTROL (ACR,DBN,GFS,GYP,LNR,SXD,TFN), NO EFED CHEM (DBN), NO ENDPOINT (ACR,DBN,GFS,GYP,LNR,SXD,TFN), NO MIXTURE (ASM,DQT,DU,PAQT,PPN), OK (NaClO,ODZ).

Siltanen, H. and Rosenberg, C. (1975). Investigations on Pesticide Residues, 1974. *Publs.of the State Inst.of Agric.Chem., 10, Helsinki, Finland, State Inst.of Agric.Chem.* 59 p.

EcoReference No.: 112141

Chemical of Concern:

BM,Y,CBD,CP,CQTC,DFQ,DINO,DMT,DQT,ES,FNT,FRT,FTF,FTT,GYP,LNR,MAL,MLN,MTZ,MX C,Maneb,NCTN,Naled,OX,C,PCH,PHMD,TBZ,TPM,TRB; Habitat: T; Effect Codes: ACC; Code: NO CONTROL (BM,Y,CBD,CP,CQTC,DFQ,DINO,DMT,DQT,ES,FNT,FTF,FTT,GYP,LNR,MAL,MLN,MTZ,MXC,Maneb,NCTN,Naled,OX,C,PCH,PHMD,TBZ,TPM,TRB), NO EFED CHEM (PCH), NO ENDPOINT (BM,Y,CBD,CP,CQTC,DFQ,DINO,DMT,DQT,ES,FNT,FTF,FTT,GYP,LNR,MAL,MLN,MTZ,MXC,Maneb,NCTN,Naled,OX,C,PCH,PHMD,TBZ,TPM,TRB).

Siltanen, H. and Rosenberg, C. (1976). Investigations on Pesticide Residues, 1975. *In: Publs.of the State Inst.of Agric.Chem., Helsinki, Finland, State Inst.of Agric.Chem.* 11: 63 p.

EcoReference No.: 112140

Chemical of Concern:

ATZ,AZ,BMN,BMY,CBD,CQTC,CZE,DCF,DFQ,DINO,DMZ,DQT,DZ,EFS,EPH,ES,ETU,GYP,LNR,M CPA,MEM,MTZ,MXC,MZB,Maneb,Naled,PCH,PHMD,PMT,TBA,TCF,TFN,TFR,TPE,TYF; Habitat: T; Effect Codes: ACC; Code: NO CONTROL (ATZ,AZ,BMN,BMY,CBD,CQTC,CZE,DCF,DFQ,DINO,DMZ,DQT,DZ,EFS,EPH,ES,ETU,GYP,LNR,M CPA,MEM,MTZ,MXC,MZB,Maneb,Naled,PCH,PHMD,PMT,TBA,TCF,TFN,TFR,TPE,TYF), NO EFED CHEM (PCH), NO ENDPOINT (ATZ,AZ,BMN,BMY,CBD,CQTC,CZE,DCF,DFQ,DINO,DMZ,DQT,DZ,EFS,EPH,ES,ETU,GYP,LNR,M CPA,MEM,MTZ,MXC,MZB,Maneb,Naled,PCH,PHMD,PMT,TBA,TCF,TFN,TFR,TPE,TYF).

Smith, T. F., Noack, A. J., and Cosh, S. M. (1981). The Effect of Some Herbicides on Vesicular-Arbuscular Endophyte Abundance in the Soil and on Infection of Host Roots. *Pestic. Sci.* 12: 91-97.

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EcoReference No.: 72606

Chemical of Concern: DQTBr,DU,PQT,TFN; Habitat: T; Effect Codes: BCM,GRO,PHY,POP,REP;
Code: NO ENDPOINT (DQTBr,DU,PQT,TFN).

Stanton, R. A., Pratley, J. E., Hudson, D., and Dill, G. M. (2010). Herbicide Tolerant Canola Systems and Their Impact on Winter Crop Rotations. *Field Crops Res.* 117: 161-166.

EcoReference No.: 150459

Chemical of Concern: ATZ,CLT,CSF,DFPM,DQT,GYP,PQT,SZ,TFN,TSF; Habitat: T; Effect Codes: POP; Code: NO MIXTURE (DQT,PQT), OK (ATZ,CLT,CSF,DFPM,GYP,SZ,TFN,TSF).

Werth, J., Walker, S., Boucher, L., and Robinson, G. (2010). Applying the Double Knock Technique to Control *Conyza bonariensis*. *Weed Biol. Manag.* 10: 1-8.

EcoReference No.: 150356

Chemical of Concern: 24D,24DXY,DQT,GYP,PAQT; Habitat: T; Effect Codes: POP; Code: NO MIXTURE (24D,24DXY,DQT,PAQT), OK (GYP).

Whitworth, W. R. and Lane, T. H. (1969). Effects of Toxicants on Community Metabolism in Pools. *Limnol. Oceanogr.* 14: 53-58.

EcoReference No.: 117444

Chemical of Concern: ATM,CuS,DDT,DQT; Habitat: A; Effect Codes: POP,SYS; Code: NO ENDPOINT (ATM,CuS,DDT,DQT).

Wilson, D. C. and Bond, C. E. (1969). The Effects of the Herbicides Diquat and Dichlobenil on Pond Invertebrates. Part I. Acute Toxicity. *Trans. Am. Fish. Soc.* 98: 438-442.

EcoReference No.: 893

Chemical of Concern: DBN,DQT,DQTBr; Habitat: A; Effect Codes: PHY; Code: NO CONTROL (DBN,DQT,DQTBr), NO EFED CHEM (DBN), NO ENDPOINT (DBN,DQT,DQTBr).

Xu, J., Sun, S., Wei, W., Fu, J., Qi, W., Manchester, L. C., Tan, D. X., and Reiter, R. J. (2007). Melatonin Reduces Mortality and Oxidatively Mediated Hepatic and Renal Damage due to Diquat Treatment. *J. Pineal Res.* 42: 166-171.

EcoReference No.: 150622

Chemical of Concern: DQT; Habitat: T; Effect Codes: BCM,MOR; Code: NO EXP TYPE (DQT).

Excluded

Abdullah, A. R., Bajet, C. M., Matin, M. A., Nhan, D. D., and Sulaiman, A. H. (1997). Ecotoxicology of Pesticides in the Tropical Paddy Field Ecosystem. *Environ.Toxicol.Chem.* 16: 59-70.
Chem Codes: Chemical of Concern: CYP,MTM,MP,EFX,DQTBr Code: REFS CHECKED/REVIEW.

Ahrens, M. (2008). Literature Review of Organic Chemicals of Emerging Environmental Concern in Use in Auckland. *NIWA Proj.: ARC07209, Auckland Reg.Counc., Natl.Inst.of Water & Atmos.Res.Ltd., Hamilton, N.Z.* 193 p.

Chem Codes: Chemical of Concern:

CPC,BDF,BML,ACP,TLM,DM,TMT,LCYT,BFT,RTN,IMC,PPB,CPY,CBL,PMR,MLN,DZ,TFN,DMB,P
RO,DQTBr,24D,GYP,TFR,MXC,CTN,MZB,Captan,TPE,FMA,ETHN,DEG,CF,CTC,PCB,TOL,PHTH,A
KTMD,ACAC,BNL,BUT,IZP,Ziram Code: REVIEW.

Airolidi, 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.Landbouwwet.Rijksuniv.Gent* 57: 1099-1106.

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- Chem Codes: Chemical of Concern: PAQT,DQTBr,PPN,PDM,TBC Code: MIXTURE.
- Baldwin, R. C., Pasi, A., MacGregor, J. T., and Hine, C. H. (1975). The Rates of Radical Formation from the Dipyrldylum Herbicides Paraquat, Diquat and Morfamquat in Homogenates of Rat Lung, Kidney, and Liver: An Inhibitory Effect of Carbon Monoxide. *Toxicol. Appl. Pharmacol.* 32: 298.
Chem Codes: Chemical of Concern: DQT Code: IN VITRO.
- Bartell, S. M., Campbell, K. R., Lovelock, C. M., Nair, S. K., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risk From Pesticides Using a Diquat Dibromide Case Study Iii. *Ecological Process Models. Environ.Toxicol.Chem.* 19: 1441-1453.
Chem Codes: Chemical of Concern: ATZ,DQTBr Code: MODELING.
- Bartell, S. M., Lefebvre, G., Aminski, G., Carreau, M., and Campbell, K. R. (1999). An Ecosystem Model for Assessing Ecological Risks in Ecological Risks in Quebec Rivers, Lakes, and Reservoirs. *Ecol.Model.* 124: 43-67.
Chem Codes : Chemical of Concern: ATZ,DQTBr Code: MODELING.
- Beasley, P. G., Lawrence, J. M., and Funderburk, H. H. Jr. (1965). The Absorption and Distribution of C14-Labeled Diquat in the Goldfish, *Carassius Auratus* (Linnaeus). *Proc.South.Weed Conf.* 18: 581 (ABS).
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Berry, C. R. Jr., Schreck, C. B., and Van Horn, S. L. (1975). Aquatic Macroinvertebrate Response to Field Application of the Combined Herbicides Diquat and Endothall. *Bull.Environ.Contam.Toxicol.* 14: 374-379.
Chem Codes: Chemical of Concern: EDT,DQTBr Code: MIXTURE .
- Bhuyan, D. K. and Bhuyan, K. C. (1991). Oxy Radicals in the Eye Tissues of Rabbits After Diquat in Vivo. *Free Radic.Res.Comm.* 12/13: 621-627.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Blackburn, R. D. and Weldon, L. W. (1963). Results of 3 Years of Testing Diquat as an Aquatic Herbicide in Florida. *Proc.16th Weed Control Conf.* 365 (ABS).
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.
- Borkowski, J. (1973). Effect of Reglone and Other Chemicals on the Defoliation of Beans Grown for Seed. *Biul.Warzywnicy* 15: 185-211(POL) (ENG ABS).
Chem Codes: Chemical of Concern: DQTBr,EPH,KI Code: NON-ENGLISH.
- Bowmer, K. H., Jacobs, S. W. L., and Sainty, G. R. (1995). Identification, Biology and Management of Elodea canadensis, Hydrocharitaceae. *J. Aquat. Plant Manag.* 33: 13-19.
Chem Codes: Chemical of Concern: ACL,CuS,DQT,FDE,HXZ,PAQT,SZ Code: REFS CHECKED,REVIEW.
- Burk, R. F., Lawrence, R. A., Lane, J. M., and Hamm, D. P. (1979). Lipid Peroxidation and Liver Necrosis in Selenium-Deficient Rats Given Diquat and Paraquat. *Gastroenterology* 76: 1109 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Campbell, K. R., Bartell, S. M., and Shaw, J. L. (2000). Characterizing Aquatic Ecological Risks From Pesticides Using a Diquat Dibromide Case Study. Ii. Approaches Using Quotients and Distributions. *Environ.Toxicol.Chem.* 19: 760-774.
Chem Codes: Chemical of Concern: DQTBr Code: REFS CHECKED/REVIEW.
- Carter, L. (1971). Investigations of the Toxicity of Diquat to Freshwater Fish and Molluscs. *Rep.No.TMJ705A, ICI Mar.Res.Stn., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.

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- Carter, L. (1971). Investigations of the Toxicity of Diquat to Freshwater Fish and Molluscs. *Rep.No.TMJ705A, ICI Mar.Res.Stn., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Cassani, J. R. and Caton, W. E. (1985). Effects of Chemical and Biological Weed Control on the Ecology of a South Florida Pond. *J. Aquat. Plant Manag.* 23: 51-58.
Chem Codes: Chemical of Concern: Cu,DQT Code: MIXTURE.
- Chiovarou, E. D. and Siewicki, T. C. (2008). Comparison of Storm Intensity and Application Timing on Modeled Transport and Fate of Six Contaminants. *Sci. Total Environ.* 389: 87-100.
Chem Codes: Chemical of Concern: ATZ,CBL,DQTBr,FA,FPN,IMC Code: FATE,MODELING.
- Chiovarou, E. D. and Siewicki, T. C. (2008). Comparison of Storm Intensity and Application Timing on Modeled Transport and Fate of Six Contaminants. *Sci.Total Environ.* 389: 87-100.
Chem Codes: Chemical of Concern: ATZ,FPN,CBL,FA,DQTBr,IMC Code: FATE/MODELING.
- Coats, G. E., Funderburk, H. H. Jr., Lawrence, J. M., and Davis, D. E. (1964). Persistence of Diquat and Paraquat in Pools and Ponds. *Proc.17th Weed Control Conf.* 308-315.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: FATE/MIXTURE.
- Coats, G. E., Funderburk, H. H. Jr., Lawrence, J. M., and Davis, D. E. (1965). Studies on Translocation, Degradation, and Factors Affecting the Persistence of Diquat and Paraquat. *Proc. 18th Weed Control Conf.* 614-(ABS).
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: ABSTRACT.
- Coats, G. E., Funderburk, H. H. Jr., Lawrence, J. M., and Davis, D. E. (1965). Studies on Translocation, Degradation, and Factors Affecting the Persistence of Diquat and Paraquat. *Proc.18th Weed Control Conf.* 614 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Cobb, L. M. and Grimshaw, P. (1979). Acute Toxicity of Oral Diquat (1,1'-Ethylene-2,2'- Bipyridinium) in Cynomolgus Monkeys. *Toxicol.Appl.Pharmacol.* 51: 277-282.
Chem Codes: Chemical of Concern: DQTBr Code: MONKEY.
- Daly, R. W., Funderburk, H. H. Jr., and Lawrence, J. M. (1968). Persistence of Diquat, Paraquat, and 2,4-Dbee When Used for Eurasian Watermilfoil (*Myriophyllum Spicatum* L.) Control. *Proc.South.Weed Conf.* 21: 299 (ABS).
Chem Codes: Chemical of Concern: PAQT,24DXYBEE,DQTBr Code: ABSTRACT.
- Dawson, F. H. (1996). Crassula Helmsii: Attempts at Elimination Using Herbicides. *Hydrobiologia* 340: 241-245.
Chem Codes: Chemical of Concern: GYP,DQTBr Code: NO CONC.
- Dionne, E. (1987). Acute Toxicity of Diquat Concentrate to Eastern Oysters (*Crassostrea virginica*). *Rep.No.S-2911, Chevron Chem.Co., Richmond, CA.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Dionne, E. (1987). Acute Toxicity of Diquat Concentrate to Eastern Oysters (*Crassostrea Virginica*). *Rep.No.S-2911, Chevron Chem.Co., Richmond, CA.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Dodge, A. D. (1971). The Mode of Action of the Bipyridylum Herbicides, Paraquat and Diquat. *Endeavour* 30: 130-135.
Chem Codes: Chemical of Concern: DQTBr,PQT Code: REFS CHECKED,REVIEW.
- Dodge, A. D., Harris, N., and Baldwin, B. C. (1970). The Mode of Action of Paraquat and Diquat. *Biochem. J.* 118: 43-44(ABS).
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: ABSTRACT.

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Dodge, A. D., Harris, N., and Baldwin, B. C. (1970). The Mode of Action of Paraquat and Diquat. *Biochem.J.* 118: 43-44 (ABS).

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.

Drechsel, D. A. and Patel, M. (Differential Contribution of the Mitochondrial Respiratory Chain Complexes to Reactive Oxygen Species Production by Redox Cycling Agents Implicated in Parkinsonism. *Toxicol sci.* 2009, dec; 112(2):427-34. [*Toxicological sciences : an official journal of the society of toxicology*]: *Toxicol Sci.*

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

Duncan, W. A. M. and Leonard, B. J. (1977). Clinical Toxicology. W.A.M.Duncan and B.J.Leonard (Eds.), *Clinical Toxicology, Proc.of the Eur.Soc.of Toxicol, Meet.held at Edinburgh, June 1976, Vol.XVIII, Excerpta Medica, Amsterdam* 348 p.

Chem Codes: Chemical of Concern: CTC,DDVP,DMT,DQT,ETHN,ETO,MP,Ni,PAQT,PQT Code: SKIMMED.

El-Deen, M. A. S. (1991). Physiological and Biochemical Changes in Grass Carp *Stenopharyngodon idella* Exposed to Diquat. *Ph.D.Thesis, Auburn Univ.* 117 p. (Publ As 7784,16083) (UMI# 9224054).

Chem Codes: Chemical of Concern: DQTBr Code: PUBL AS.

El-Deen, M. A. S. (1991). Physiological and Biochemical Changes in Grass Carp *Stenopharyngodon Idella* Exposed to Diquat. *Ph.D.Thesis, Auburn Univ.* 117 p. (Publ As 7784,16083) (UMI# 9224054).

Chem Codes: Chemical of Concern: DQTBr Code: PUBL AS.

Fahrig, R. (1974). Comparative Mutagenicity Studies With Pesticides. *IARC Sci.Publ.* 10: 161-181.

Chem Codes: Chemical of Concern: MCPB,CBL,SZ,DQTBr,MP,Ziram,DMT,PCP,Folpet,Captan,MCPA,MLN,DZ,AND,EN,ES Code: REVIEW.

Fischer, L. R. and Glass, J. D. (Oxidative Stress Induced by Loss of Cu,Zn-Superoxide Dismutase (Sod1) or Superoxide-Generating Herbicides Causes Axonal Degeneration in Mouse Drg Cultures. *Acta neuropathol.* 2010, feb; 119(2):249-59. [*Acta neuropathologica*]: *Acta Neuropathol.*

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

Folmar, L. C. (1977). Acrolein, Dalapon, Dichlobenil, Diquat, and Endothal: Bibliography of Toxicity to Aquatic Organisms. *Technical Paper No.88, U.S.Fish and Wildlife Service, Washington, DC* 16 p.

Chem Codes: Chemical of Concern: EDT,ACL,DQTBr Code: REFS CHECKED/REVIEW.

Frey, F. (1976). Effects of Herbicide Applied in Orchards on *Acrobeloides buetschilli* (de Man, 1984) Steiner and Buhner, 1933(Untersuchungen über die Wirkungen von im Obstbauverwendeten Herbiziden auf den Testnematoden *Acrobeloides buetschilli* (de Man, 1884) Steiner und Buhner, 1933). *Z. Pflanzenkr. Pflanzenschutz* 88: 434-441(GER) (ENG ABS).

Chem Codes: Chemical of Concern: DQT,PAQT Code: NON-ENGLISH.

Fu, Y., Sies, H., and Lei, X. G. (2001). Opposite Roles of Selenium-Dependent Glutathione Peroxidase-1 in Superoxide Generator Diquat- and Peroxynitrite-Induced Apoptosis and Signaling. *J.Biol.Chem.* 276: 43004-43009.

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

Gage, J. C. (1968). The Action of Paraquat and Diquat on the Respiration of Liver Cell Fractions. *Biochem. J.* 109: 757-761.

Chem Codes: Chemical of Concern: DQT,PQT Code: IN VITRO.

Gage, J. C. (1968). Toxicity of Paraquat and Diquat Aerosols Generated by a Size-Selective Cyclone Effect of Particle Size Distribution. *Br. J. Ind. Med.* 25: 304-314.

September 2010 ECOTOX refresh

- Chem Codes: Chemical of Concern: DQT,PQT Code: INHALE.
- Garron, C. A., Davis, K. C., and Ernst, W. R. (2009). Near-Field Air Concentrations of Pesticides in Potato Agriculture in Prince Edward Island. *Pest Manag. Sci.* 65: 688-696.
Chem Codes: Chemical of Concern: CBF,DQTBr,MTM,MZB Code: FATE.
- Goeltenboth, F. (1978). Der Einfluss Von Paraquat Und Diquat Auf Die Mitoseaktivitat Von Eichhornia Crassipes (Mart.) Solms. *In: Proc.EWRS 5th Symp.on Aquat.Weeds* 383-390 (GER) (ENG ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: NON-ENGLISH.
- Gummeson, G. (1976). Injuries to Field Crops Resulting from Diquat Herbicides. *In: Ogras Och Ograsbekampning, Svenska Ograskonf* 17: K19 - K21(SWE).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Haag, K. H. and Buckingham, G. R. (1991). Effects of Herbicides and Microbial Insecticides on the Insects of Aquatic Plants. *J.Aquat.Plant Manag.* 29: 55-57.
Chem Codes: Chemical of Concern: DQTBr,Cu,EDT,FDE Code: NO DURATION.
- Hayworth, J., David, N., and Shonkoff, S. B. (2004). Aquatic Pesticide Monitoring Program: Phase 2 (2003) Bioassessment of Waterbodies Treated With Aquatic Pesticides. *Technical Report, SFEI Contribution #117, San Francisco Estuary Institute, Oakland, CA* 50 p.
Chem Codes: Chemical of Concern: 24D,CuS,DQTBr,FDE,GYP,MTPN,TPR Code: NO CONC.
- Hayworth, J. and Melwani, A. (2004). Aquatic Pesticide Monitoring Program: Phase 3 (2004) Bioassessment of Waterbodies Treated With Aquatic Pesticides. *SFEI Contribution #393.San Francisco Estuary Institute, Oakland, CA* 120 p.
Chem Codes: Chemical of Concern: DQTBr,CuS,24D,ACL Code: NO CONC.
- Henares, M. N. P., Cruz, C. da, Gomes, G. R., Pitelli, R. A., Machado, M. R. F., and Da Cruz, C. (2007). Diquat Acute Toxicity and Histopathological Effects on Leporinus Macrocephalus's Gills and Liver. *Pesticidas* 17: 107-116 (SPA) (ENG ABS).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Hill, R. W., Maddock, B. G., Hart, B., and Gilbert, J. L. (1976). Determination of the Acute Toxicity of Formulation YF6130 (Reglone) to Rainbow Trout (Salmo gairdneri). *Rep.No.BL/B/1731, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Hill, R. W., Maddock, B. G., Hart, B., and Gilbert, J. L. (1976). Determination of the Acute Toxicity of Formulation Yf6130 (Reglone) to Rainbow Trout (Salmo Gairdneri). *Rep.No.BL/B/1731, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Hoberg, J. (1987). Acute Toxicity of Diquat Concentrate to Mysid Shrimp (Mysidopsis bahia). *Rep.No.S-2910, Chevron Chem.Co., Richmond, CA.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Hoberg, J. (1987). Acute Toxicity of Diquat Concentrate to Mysid Shrimp (Mysidopsis Bahia). *Rep.No.S-2910, Chevron Chem.Co., Richmond, CA.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Hong, W. H., Meier, P. G., and Deininge, R. A. (1988). Determination of Dose-Time-Response Relationships From Long-Term Acute Toxicity Test Data. *Environ.Toxicol.Chem.* 7: 221-226.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.

September 2010 ECOTOX refresh

- Hulec, P. (1983). Use of Paraquat and Diquat for Desiccation on Grass Swards. *Ved.Pr.Vysk.Ust.Luk Pasienkov Banskej Bystrici* 17: 167-174(SLO) (ENG ABS).
Chem Codes: Chemical of Concern: DQTBr,PQT Code: NON-ENGLISH.
- Jović, -Stosić, J, Babić, G, Todorović, and V (Fatal Diquat Intoxication. *Vojnosanit pregl.* 2009, jun; 66(6):477-81. [*Vojnosanitetski pregl.* Military-medical and pharmaceutical review]:
Vojnosanit Pregl.
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Katsura, N. (1985). Herbicides: Vegetable Fields. *Jpn. Pestic. Inf.* 47: 30-32.
Chem Codes: Chemical of Concern: ATZ,DQT,GFS,LNR,MTL,PQT,SXD Code: NO EFFECT.
- Khera, K. S. and Whitta, L. L. (1969). Embryopathic Effects of Diquat and Paraquat in the White Rat. *Weed Abstr.* 18: (ABS).
Chem Codes: Chemical of Concern: DQT,PQT Code: ABSTRACT.
- Krieger, R. I., Lee, P. W., Black, A., and Fukoto, T. R. (1973). Inhibition of Microsomal Aldrin Epoxidation by Diquat and Several Related Bypyridylum Compounds. *Bull. Environ. Contam. Toxicol.* 9: 1-3.
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: IN VITRO.
- Krieger, R. I., Lee, P. W., Black, A., and Fukoto, T. R. (1973). Inhibition of Microsomal Aldrin Epoxidation by Diquat and Several Related Bypyridylum Compounds. *Bull.Environ.Contam.Toxicol.* 9: 1-3.
Chem Codes: Chemical of Concern: DQTBr,PAQT Code: IN VITRO.
- Lam, H. F., Takezawa, J., and Van Stee, E. W. (1979). Evaluation of the Effects of Paraquat and Diquat in Rats Using Pulmonary Function Tests. *Environ.Health Perspect.* 33: 338 (ABS).
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.
- Lei, X. G. (2002). In Vivo Antioxidant Role of Glutathione Peroxidase: Evidence From Knockout Mice. *Methods Enzymol.* 347: 213-225.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: REVIEW.
- Liang, Hanyu, Ran, Qitao, Jang, Youngmok Charles , Holstein, Deborah, Lechleiter, James, Donald-Marsh, Tiffany, Musatov, Andrej, Song, Wook, Van Remmen, Holly, and Richardson, Arlan (2009-). Glutathione peroxidase 4 differentially regulates the release of apoptogenic proteins from mitochondria. *Free Radical Biology and Medicine* 47: 312-320.
Chem Codes: Chemical of Concern: DQTBr Code: IN VITRO.
- Liu, S. S., Song, X. Q., Liu, H. L., Zhang, Y. H., and Zhang, J. (Combined Photobacterium Toxicity of Herbicide Mixtures Containing One Insecticide. *Chemosphere.* 2009, apr; 75(3):381-8. [*Chemosphere*]:
Chemosphere.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Lu, T., Piao, X. L., Zhang, Q., Wang, D., Piao, X. S., and Kim, S. W. (2010). Protective effects of Forsythia suspensa extract against oxidative stress induced by diquat in rats. *Food and Chemical Toxicology* 48: 764-770.
Chem Codes: Chemical of Concern: DQTBr Code: BIOLOGICAL TOXICANT.
- Manzo, L., Gregotti, C., Di Nucci, A., and Richelmi, P. (1979). Toxicology of Paraquat and Related Bipyrindyls: Biochemical, Clinical and Therapeutic Aspects. *Vet. Hum. Toxicol.* 21: 404-410.
Chem Codes: Chemical of Concern: DQT,PAQT Code: REFS CHECKED,REVIEW.
- Melo, L. C., Salazar-Banda, G. R., Machado, S. A., De Lima-Neto, P., De Souza, D., and Correia, A. N. (A Simple and Sensitive Detection of Diquat Herbicide Using a Dental Amalgam Electrode: a Comparison Using the Chromatographic Technique. *Talanta.* 2009, oct 15; 79(5):1216-22. [*Talanta*]: *Talanta.*
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

September 2010 ECOTOX refresh

Miller, I. L. and Wilson, C. G. (1989). Management of Salvinia in the Northern Territory. *J.Aquat.Plant Manag.* 27: 40-46.

Chem Codes: Chemical of Concern: HXZ,PAQT,DU,24DXY,DQTBr Code: REFS
CHECKED/REVIEW.

Neuhold, J. M. (1987). The Relationship of Life History Attributes to Toxicant Tolerance in Fishes.

Environ.Toxicol.Chem. 6: 709-716.

Chem Codes: Chemical of Concern:

BNZ,CBL,Se,DDT,AND,NH,ATZ,CHD,Cu,DLD,ES,EN,HPT,HCCH,PRN,PCP,TXP,Zn,PSM,MP,DQTBr
Code: REFS CHECKED/REVIEW.

Newman, J. F. (1967). The Ecological Effects of Paraquat and Diquat When Used to Control Aquatic Weed.

Proc.4th British Insecticide and Fungicide Conference, Volume 1, Held Nov.20-23, 1967, Brighton, England 45-47.

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: NO TOX DATA.

Newman, J. F. (1968). The Ecological Effects of Paraquat and Diquat When Used to Control Aquatic Weeds. *Weed Abstr.* 17: 361 (ABS).

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: ABSTRACT.

Nicholson, R. (1987). Acute Toxicity of Diquat Concentrate to Sheepshead Minnow (*Cyprinodon variegatus*).

Lab.Proj.ID S2909, Chevron Chem.Co., Richmond, CA.

Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.

Nicholson, R. (1987). Acute Toxicity of Diquat Concentrate to Sheepshead Minnow (*Cyprinodon Variegatus*).

Lab.Proj.ID S2909, Chevron Chem.Co., Richmond, CA.

Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.

Okonek, S. and Hofmann, A. (1975). On the Question of Extracorporeal Hemodialysis in Diquat Intoxication. *Arch. Toxicol.* 33: 251-257.

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

Okonek, S., Hofmann, A., and Henningsen, B. (1976). Efficacy of Gut Lavage, Hemodialysis, and Hemoperfusion in the Therapy of Paraquat or Diquat Intoxication. *Arch. Toxicol.* 36: 43-51.

Chem Codes: Chemical of Concern: DQTBr,PQT Code: HUMAN HEALTH.

Oreopoulos, D. G. and McEvoy, J. (1969). Diquat Poisoning. *Postgrad. Med. J.* 45: 635-637.

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

Orpin, C. G., Knight, M., and Evans, W. C. (1972). The Bacterial Oxidation of Picolinamide, a Photolytic Product of Diquat. *Biochem.J.* 127: 819-831.

Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.

Pateiro-Moure, M., Arias-Estévez, M., Simal-Gándara, and Ndara, J. (Competitive and Non-Competitive Adsorption/Desorption of Paraquat, Diquat and Difenzoquat in Vineyard-Devoted Soils. *J hazard mater.* 2010, jun 15; 178(1-3):194-201. [*Journal of hazardous materials*]: *J Hazard Mater.*

Chem Codes: Chemical of Concern: DQTBr Code: NO SPECIES.

Pateiro-Moure, M., Nóvoa-Muñoz, J. C., Arias-Estévez, M., López-Periago, E., Martínez-Carballo, E., and Simal-Gándara, J. (2009-). Quaternary herbicides retention by the amendment of acid soils with a bentonite-based waste from wineries. *Journal of Hazardous Materials* 164: 769-775.

Chem Codes: Chemical of Concern: DQTBr Code: NO SPECIES.

Pateiro-Moure, M., Páez, Rez-Novo, C., Arias-Estévez, M., Rial-Otero, R., Simal-Gándara, and Ndara, J. (Effect of Organic Matter and Iron Oxides on Quaternary Herbicide Sorption-Desorption in

September 2010 ECOTOX refresh

- Vineyard-Devoted Soils. *J colloid interface sci.* 2009, may 15; 333(2):431-8. [*Journal of colloid and interface science*]: *J Colloid Interface Sci.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SPECIES.
- Paul, E. A., Simonin, H. A., Symula, J., and Bauer, R. W. (1995). The Toxicity of Diquat, Endothall, and Fluridone to Early Life Stages of Fish. Authors' Response. *J.Freshw.Ecol.* 10: 306-310 (Publ As #14903).
Chem Codes: Chemical of Concern: EDT,FDE,DQTBr Code: PUBL AS.
- Popov, A. P. and Mistiukova, N. P. (1979). Application of Reglone in Pome Orchard (Herbicides, Apple). *Sb.Nauchn.Rab* 29: 67-69(RUS).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Prahlad, K. V. and Anderson, R. J. (1975). Deleterious Changes Induced by the Fungicide Ethylenebis (Dithiocarbamic Acid) Disodium Salt (Nabam) and the Herbicide 1,1'-Ethylene- 2,2'-Dipyridinium Dibromide (Diquat) in *Xenopus Laevis* Embryonic Tissues: an Ultrastructural Study. *Cytobios* 14: 63-74.
Chem Codes: Chemical of Concern: Nabam,DQTBr Code: MIXTURE.
- Qin, Li Tang, Liu, Shu Shen, Liu, Hai Ling, and Zhang, Yong Hong (2010). Support vector regression and least squares support vector regression for hormetic dose-response curves fitting. *Chemosphere* 78: 327-334.
Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.
- Reinert, K. H. and Rodgers, J. H. (1987). Fate and Persistence of Aquatic Herbicides. *Rev. Environ. Contam. Toxicol.* 98: 61-98.
Chem Codes: EcoReference No.: 117045
Chemical of Concern: 24D,24DXY,ACL,AMSV,AMTL,CuS,DBN,DMB,DQT,EDT,FDE,GYP,SZ Code: REVIEW.
- Rioux, R. (1983). The Effect of Nitrogen, Fertilization, Ethephon and Mineral Oil on Defoliation of Seed Potatoes with Diquat. *Phytoprotection* 64: 27-30 (FRE) (ENG ABS).
Chem Codes: Chemical of Concern: DQT,EPH Code: NON-ENGLISH.
- Ritter, A. M., Shaw, J. L., Williams, W. M., and Travis, K. Z. (2000). Characterizing Aquatic Ecological Risks From Pesticides Using a Diquat Dibromide Case Study. I. Probabilistic Exposure Estimates. *Environ.Toxicol.Chem.* 19: 749-759.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.
- Rocchi, P., Perocco, P., Alberghini, W., Fini, A., and Prodi, G. (1980). Effect of Pesticides on Scheduled and Unscheduled Dna Synthesis of Rat Thymocytes and Human Lymphocytes. *Arch.Toxicol.* 45: 101-108 .
Chem Codes: Chemical of Concern: TRL,HCCH,DLD,DDT,AND,Folpet,PQT,DQTBr,CBL,Maneb,THM,ZINEB,Ziram,Captan Code: IN VITRO.
- Rose, M. S., Smith, L. L., and Wyatt, I. (1974). Evidence for Energy-Dependent Accumulation of Paraquat Into Rat Lung. *Nature* 252: 314-315.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: IN VITRO.
- Samokyszyn, V. M., Thomas, C. E., Reif, D. W., Saito, M., and Aust, S. D. (1988). Release of Iron From Ferritin and Its Role in Oxygen Radical Toxicities. *Drug Metab.Rev.* 19: 283-303.
Chem Codes: Chemical of Concern: Fe,DQTBr,HOX,PAQT Code: IN VITRO/NO DURATION.
- Sanchez-Bayo, F. (2006). Comparative Acute Toxicity of Organic Pollutants and Reference Values for Crustaceans. I. Branchiopoda, Copepoda and Ostracoda. *Environ.Pollut.* 139: 385-420.
Chem Codes: Chemical of Concern: CBL,MTPN,PSM,PRN,MLN,DZ,BPH,TBF,PPG,DQTBr Code: REVIEW.

September 2010 ECOTOX refresh

- Schneider, I. (1974). The Effect of Diquat on the Pigment Content of Pea Plants. *Arch. Phytopathol. Pflanzenschutz* 10: 405-408(GER) (ENG ABS).
Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.
- Schneider, I. and Gunther, G. (1975). Effect of Diquat on the Level and the Enzymatic Oxidation of Indole-3-Acetic Acid (Iaa), in Etiolated Pea Plants (Der Einfluss Von Diquat Auf Den Gehalt Und Die Enzymatische Oxydation Der Indolyl-3-Essigsäure (Ies) in Etiolierten Erbsenpflanzen). *Biochem. Physiol. Pflanz.* 167: 151-158 (GER) (ENG ABS).
Chem Codes: Chemical of Concern: IAA,DQTBr Code: NON-ENGLISH.
- Severa, Lukás, Adriaenssens, Louis, Vávra, Jan, Saman, David, Císarová, Ivana, Fiedler, Pavel, and Teplý, Filip (2010-). Highly modular assembly of cationic helical scaffolds: rapid synthesis of diverse helquats via differential quaternization. *Tetrahedron* 66: 3537-3552.
Chem Codes: Chemical of Concern: DQTBr Code: NO TOX DATA.
- Shaw, J. L. and Hamer, M. J. (1995). A Rebuttal to: the Toxicity of Diquat, Endothall, and Fluridone to the Early Life Stages of Fish. *J.Freshw.Ecol.* 10: 303-310.
Chem Codes: Chemical of Concern: EDT,FDE,DQTBr Code: ADDENDUM.
- Siemering, G. S., Hayworth, J. D., and Greenfield, B. K. (2008). Assessment of Potential Aquatic Herbicide Impacts to California Aquatic Ecosystems. *Arch. Environ. Contam. Toxicol.* 17 p.(DOI 10.1007/s00244-008-9137-2).
Chem Codes: Chemical of Concern: TPR,DQTBr Code: REVIEW.
- Simsman, G. V. and Chesters, G. (1976). Persistence of Diquat in the Aquatic Environment. *Water Res.* 10: 105-112.
Chem Codes: Chemical of Concern: DQTBr Code: FATE.
- Soliman, F. S. and Tag El-Din, A. T. F. (1995). Chemical Weed Control in Carrots (*Daucus carota* L.). *Meded. Fac. Landbouww. Univ. Gent* 60: 31-38.
Chem Codes: Chemical of Concern: DQT,LNR,MBZ,PDM,PZM Code: MIXTURE.
- Stocker, R. K. and Haller, W. T. (1999). Residual Effects of Herbicide-Treated *Eichhornia crassipes* Used as a Soil Amendment. *Hydrobiologia* 415: 329-333.
Chem Codes: Chemical of Concern: DMDP,DQT,GYP Code: NO CONC.
- Strange, R. J. (1976). Nutrient Release and Community Metabolism Following Application of Herbicide to Macrophytes in Microcosms. *J.Appl.Ecol.* 13: 889-897.
Chem Codes: Chemical of Concern: DQTBr Code: MIXTURE.
- Strange, R. J. and Schreck, C. B. (1976). Response of Aerobic Community Metabolism to Chemical Treatment of Aquatic Macrophytes. *J. Aquat. Plant Manag.* 14: 45-50.
Chem Codes: Chemical of Concern: DQT,EDT Code: MIXTURE.
- Suleiman, S. A. and Stevens, J. B. (1987). Bipyridylum Herbicide Toxicity: Effects of Paraquat and Diquat on Isolated Rat Hepatocytes. *J.Environ.Pathol.Toxicol.Oncol.* 7: 73-84.
Chem Codes: Chemical of Concern: PAQT,DQTBr Code: IN VITRO.
- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Common Carp. *Rep.No.39112E, Kyushu Lab., Kurume City, Kukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Common Carp. *Rep.No.39112E, Kyushu Lab., Kurume City, Kukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.

September 2010 ECOTOX refresh

- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Daphnia. *Rep.No.E-0675E, Kyusuhu Lab., Kurume City, Fukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Tadokoro, H. (1986). Acute Toxicity of Diquat Technical Material to Daphnia. *Rep.No.E-0675E, Kyusuhu Lab., Kurume City, Fukuoka, Japan.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Mirror Carp (Cyprinus carpio). *Rep.No.BL/B/3337, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Mirror Carp (Cyprinus Carpio). *Rep.No.BL/B/3337, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Rainbow Trout (Salmo gairdneri). *Rep.No.BL/B/3336, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Tapp, J. F. and Caunter, J. E. (1988). Diquat: Determination of Acute Toxicity to Rainbow Trout (Salmo Gairdneri). *Rep.No.BL/B/3336, ICI Brixham Lab., Brixham, UK.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Teitt, J. M. and Maughan, O. E. (1987). The Response of a Farm Pond to Herbicide Treatment. *Va.J.Sci.* 38: 12-18.
Chem Codes: Chemical of Concern: EDT,DQTBr Code: MIXTURE.
- Thompson, C. J., Griffen, J., and Forbis, A. (1980). Acute Toxicity of Diquat 2 Spray (SX-1261) to Rainbow Trout (Salmo gairdneri). *Study No.26194, S-1834, Anal.Bio-Chemistry Lab., Columbia, MO.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Thompson, C. J., Griffen, J., and Forbis, A. (1980). Acute Toxicity of Diquat 2 Spray (Sx-1261) to Rainbow Trout (Salmo Gairdneri). *Study No.26194, S-1834, Anal.Bio-Chemistry Lab., Columbia, MO.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.
- Venkateswarlu, K. (1993). Pesticide Interactions With Cyanobacteria in Soil and Pure Culture. *In: J.M.Bollag and G.Stotzky (Eds.), Soil Biochemistry, Marcel Dekker Inc., New York, NY* 8: 137-179.
Chem Codes: Chemical of Concern:
CYP,CLP,PPZ,PRT,ACL,DBAC,ASCN,PRO,MTAS,MAneb,MP,Ziram,ACR,TBC,TFN,DQTBr Code :
REFS CHECKED/REVIEW.
- Vohra, R., Salazar, A., Cantrell, F. L., Fernando, R., and Clark, R. F. (The Poison Pen: Bedside Diagnosis of Urinary Diquat. *J med toxicol.* 2010, mar; 6(1):35-6. [*Journal of medical toxicology : official journal of the american college of medical toxicology*]: *J Med Toxicol.*
Chem Codes: Chemical of Concern: DQTBr Code: HUMAN HEALTH.
- Weber, J. B. and Coble, H. D. (1968). Microbial Decomposition of Diquat Adsorbed on Montmorillonite and Kaolinite Clays. *J.Agric.Food Chem.* 16: 475-478.
Chem Codes: Chemical of Concern: DQTBr Code: BACTERIA.
- Wheeler, R. (1978). 48 Hour Acute Static Toxicity of Diquat Dibromide to 1st Stage Nymph Water Fleas (Daphnia magna). *Rep.RIC 0002, Chevron Chem.Co., Richmond, CA.*
Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE.
- Wheeler, R. (1978). 48 Hour Acute Static Toxicity of Diquat Dibromide to 1st Stage Nymph Water Fleas (Daphnia

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Magna). *Rep.RIC 0002, Chevron Chem.Co., Richmond, CA.*

Chem Codes: Chemical of Concern: DQTBr Code: NO SOURCE/NOT PURSUING.

Wheeler, S. J., Black, A. S., and Pickering, G. J. (2005). Vineyard Floor Management Improves Wine Quality in Highly Vigorous *Vitis vinifera* 'Cabernet Sauvignon' in New Zealand. *N. Z. J. Crop Hortic. Sci.* 33: 317-328.

Chem Codes: Chemical of Concern: DQTBr,GYP Code: NO CONC.

Wheeler, S. J., Black, A. S., and Pickering, G. J. (2005). Vineyard Floor Management Improves Wine Quality in Highly Vigorous *Vitis Vinifera* 'cabernet Sauvignon' in New Zealand. *N.Z.J.Crop Hortic.Sci.* 33: 317-328.

Chem Codes: Chemical of Concern: DQTBr,GYP Code: NO CONC.

Yeates, G. W., Stout, J. D., Ross, D. J., Dutch, M. E., and Thomas, R. F. (1976). Long-Term Effects of Paraquat-Diquat and Additional Weed Control Treatments on Some Physical, Biological, and Respiratory Properties of a Soil Previously Under Grass. *N.Z.J.Agric.Res.* 19: 51-61.

Chem Codes: Chemical of Concern: PAQT,DQTBr Code: MIXTURE.

Young, R. G., Keeley, N. B., Shearer, K. A., Crowe, A. L. M., and R.G.Young (2004). Impacts of Diquat Herbicide and Mechanical Excavation on Spring-Fed Drains in Marlborough, New Zealand. *Sci.Conserv.* 5-50.

Chem Codes: Chemical of Concern: PQT,DQTBr Code: SURVEY.

Zeeman, M. G. and Brindley, W. A. (1981). Effects of Toxic Agents upon Fish Immune Systems: A Review. *In: R.P.Sharma (Ed.), Immunologic Consideration in Toxicology, Vol.2, CRC Press, Boca Raton, FL* 1-60.

Chem Codes: EcoReference No.: 117311

Chemical of Concern:

24D,24DXY,ATZ,AZ,CBL,CdCl,CuS,DBN,DDT,DLD,DMT,DQT,DU,DZ,EDT,EN,ES,HPT,Hg,MLN,M LT,MP,PCB,PCP,Pb,ZnS Code: REFS CHECKED,REVIEW.

Zhou, Q., Mao, J., Xiao, J., and Xie, G. (Uses of Ionic Liquid 1-Butyl-3-Methylimidazolium Hexafluorophosphate as a Good Separation Electrolyte for Direct Electrophoretic Separation of Quaternary Ammonium Herbicides. *J sep sci.* 2010, may; 33(9):1288-93. [*Journal of separation science*]: *J Sep Sci.*

Chem Codes: Chemical of Concern: DQTBr Code: CHEM METHODS.

On Order: Potentially Acceptable however Publications have not yet been Received

Arriagn-Diaz, C. (1966). Some Effects of Diquat on Respiration and Amino Acid Metabolism in *Chlorella* and *Elodea*. *M.S.Thesis, Univ.of Calif., Davis, CA.*

Chemical of Concern: DQTBr; Habitat: A

Awad, J. A., Burk, R. F., and Roberts II, L. J. (1994). Effect of Selenium Deficiency and Glutathione-Modulating Agents on Diquat Toxicity and Lipid Peroxidation in Rats. *J. Pharmacol. Exp. Ther.* 270: 858-864.

Chemical of Concern: DQTBr,Se; Habitat: T

Stokes, D. M., Turner, J. S., and Markas, K. (1970). Effect of Diquat on *Chlorella*. II. Chlorophyll Bleaching and Plastid Structure. *Aust. J. Biol. Sci.* 23: 265.

Chemical of Concern: DQTBr; Habitat: A

Thrower, S. L., Hallam, N. D., and Thrower, L. B. (1965). Movement of Diquat (1,1'-Ethylene-2,2'-Bipyridylium) Dibromide in Leguminous Plants. *Ann. Appl. Biol.* 55: 253-260 .

EcoReference No.: 27643

Chemical of Concern: DQTBr; Habitat: T

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Whitfort, L. A. (1982). Investigations into the Composition of Epiphytic Communities and Their Influence on the Uptake of Diquat by *Elodea canadensis* Rich. *M.S.Thesis, Univ.NSW: CSIRO Division of Irrigation Research, Griffith, NSW* 132 p.

Chemical of Concern: DQT; Habitat: A

Zemanek, J. (1973). Effect of Paraquat and Diquat Application on Seed Germination of Weeds. *Ochr. Rostl.* 9: 300-301.

EcoReference No.: 29751

Chemical of Concern: DQTBBr,PAQT; Habitat: T

November 2010 ECOTOX multi-ai papers

Diquat Dibromide Multi AI Papers that Were Accepted

Chung, K. W., Chandler, A. R., and Key, P. B. (2008). Toxicity of Carbaryl, Diquat Dibromide, and Fluoranthene, Individually and in Mixture, to Larval Grass Shrimp, *Palaemonetes pugio*. *J.Environ.Sci.Health Part B* 43: 293-299.

EcoReference No.: 112130

Chemical of Concern: FA,DQTBr,CBL; Habitat: A; Effect Codes: MOR; Code: LITE EVAL CODED(DQTBr,CBL,FA).

Coutellec, M. A., Delous, G., Cravedi, J. P., and Lagadic, L. (2008). Effects of the Mixture of Diquat and a Nonylphenol Polyethoxylate Adjuvant on Fecundity and Progeny Early Performances of the Pond Snail *Lymnaea stagnalis* in Laboratory Bioassays and Microcosms. *Chemosphere* 73: 326-336.

EcoReference No.: 111957

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

Coutellec, M. A., Delous, G., Cravedi, J. P., and Lagadic, L. (2008). Effects of the Mixture of Diquat and a Nonylphenol Polyethoxylate Adjuvant on Fecundity and Progeny Early Performances of the Pond Snail *Lymnaea stagnalis* in Laboratory Bioassays and Microcosms. *Chemosphere* 73: 326-336.

EcoReference No.: 111957

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

Sanchez, W., Palluel, O., Lagadic, L., Ait-Aissa, S., and Porcher, J. M. (2006). Biochemical Effects of Nonylphenol Polyethoxylate Adjuvant, Diquat Herbicide and Their Mixture on the Three-Spined Stickleback (*Gasterosteus aculeatus* L.). *Mar.Environ.Res.* 62: S29-S33.

EcoReference No.: 92796

Chemical of Concern: DQTBr; Habitat: A; Effect Codes: BCM; Code: LITE EVAL CODED(DQTBr).

Diquat Dibromide
Multi AI Papers that Were not Accepted

Cedergreen, Nina, Christensen, Anne M., Kamper, Anja, Kudsk, Per, Mathiassen, Solvejg K., Streibig, Jens C., and Soerensen, Helle (2008). A review of independent action compared to concentration addition as reference models for mixtures of compounds with different molecular target sites. *Environ. Toxicol. Chem.* 27: 1621-1632.

Chem Codes: Chemical of Concern: DQTBBr Code: MODELING, REVIEW.

From a theor. point of view, it has often been argued that the model of independent action (IA) is the most correct ref. model to use for predicting the joint effect of mixts. of chems. with different mol. target sites. The theory of IA, however, relies on a no. of assumptions that are rarely fulfilled in practice. It has even been argued that, theor., the concn. addn. (CA) model could be just as correct. **In the present study, the authors tested the accuracy of both IA and CA in describing binary dose-response surfaces of chems. with different mol. targets using statistical software.** The authors compared the 2 models to det. **which best describes data for 158 data sets.** The data sets represented 98 different mixts. of, primarily, pesticides and pharmaceuticals tested on one or several of 7 test systems contg. one of the following: *Vibrio fischeri*, activated sludge microorganisms, ***Daphnia magna*, *Pseudokirchneriella subcapitata*, *Lemna minor*, *Tripleurospermum inodorum*, or *Stellaria media*.** The analyses showed that .apprx.20% of the mixts. were adequately predicted only by IA, 10% were adequately predicted only by Ca, and both models could predict the outcome of another 20% of the expt. Half of the expts. could not be correctly described with either of the 2 models. When quantifying the maximal difference between modeled synergy or antagonism and the ref. model predictions at a 50% effect concn., neither of the models proved significantly better than the other. Thus, neither model can be selected over the other on the basis of accuracy alone. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2008:779113

Chemical Abstracts Number: CAN 149:46572

Section Code: 4-4

Section Title: Toxicology

CA Section Cross-References: 1, 10

Document Type: Journal

Language: written in English.

Index Terms: Cooperative phenomena (antagonism; review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites); Mixtures (binary; review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites); *Aliivibrio fischeri*; *Daphnia magna*; Drug toxicity; *Lemna minor*; Microorganism; Pesticides; *Pseudokirchneriella subcapitata*; Simulation and Modeling; *Stellaria media*; Toxicants; *Tripleurospermum maritimum inodorum* (review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites); Wastewater treatment sludge (secondary; review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites); Cooperative phenomena (synergism; review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites)

CAS Registry Numbers: 85-00-7 (Diquat); 93-65-2 (Mecoprop); 1071-83-6 (Glyphosate); 5915-41-3 (Terbutylazine); 50594-66-6 (Acifluorfen); 104206-82-8 (Mesotrione) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (review of independent action compared to concn. addn. as ref. models for mixts. of compds. with different mol. target sites)

Citations: 1) European Commission Health and Consumer Protection Directorate-General; Guidance document of aquatic ecotoxicology in the context of the Directive 91/414/EEC. Sanco/3268/2001 rev 4, final 2001

Citations: 2) European Commission Health and Consumer Protection Directorate-General; Guidance document on terrestrial ecotoxicology under council directive 91/414/EEC. Sance/10329/2002 rev 2, final 2002

November 2010 ECOTOX multi-ai papers

Citations: 3) Greco, W; Pharmacol Rev 1995, 47, 332
Citations: 4) McCarty, L; Regul Toxicol Pharmacol 2006, 45, 119
Citations: 5) Berenbaum, M; Pharmacol Rev 1989, 41, 93
Citations: 6) Gennings, C; Toxicol Sci 2005, 88, 287
Citations: 7) Borgert, C; Hum Ecol Risk Assess 2004, 10, 619
Citations: 8) Streibig, J; Pestic Sci 1999, 55, 137
Citations: 9) Cedergreen, N; Pestic Manag Sci 2007, 63, 282
Citations: 10) Cedergreen, N; Ecotoxicol Environ Saf 2007, 67, 323
Citations: 11) Arrhenius, A; Aquat Toxicol 2004, 68, 351
Citations: 12) Junghans, M; Pestic Manag Sci 2003, 59, 1101
Citations: 13) Junghans, M; Bull Environ Contam Toxicol 2003, 71, 585
Citations: 14) Faust, M; Aquat Toxicol 2001, 56, 13
Citations: 15) Berenbaum, M; Adv Cancer Res 1981, 35, 269
Citations: 16) Gessner, P; J Am Coll Toxicol 1988, 7, 987
Citations: 17) Faust, M; Aquat Toxicol 2003, 63, 43
Citations: 18) Backhaus, T; Environ Toxicol Chem 2000, 19, 2348
Citations: 19) Chen, C; Sci Total Environ 2002, 289, 123
Citations: 20) Backhaus, T; Environ Sci Technol 2004, 38, 6363
Citations: 21) Backhaus, T; Environ Toxicol Chem 2004, 23, 258
Citations: 22) Barata, C; Aquat Toxicol 2006, 78, 1
Citations: 23) Dreschner, K; Biometrics 1995, 51, 716
Citations: 24) Cedergreen, N; Environ Toxicol Chem 2005, 24, 1676
Citations: 25) Cedergreen, N; Aquat Toxicol 2006, 78, 252
Citations: 26) Christensen, A; Environ Toxicol Chem 2006, 25, 2208
Citations: 27) Syberg, K; Ecotoxicol Environ Saf 2007, 69, 428
Citations: 28) Jonker, M; Environ Toxicol Chem 2005, 24, 2701
Citations: 29) Sorensen, H; Environ Ecol Stat 2007, 14, 383
Citations: 30) Cedergreen, N; Environ Toxicol Chem 2007, 26, 149
Citations: 31) Anderson, T; Environ Toxicol Chem 2002, 21, 1507
Citations: 32) Pilling, E; Pestic Biochem Physiol 1995, 51, 1
Citations: 33) Thompson, H; Ecotoxicology 1996, 5, 59
Citations: 34) Warne, M; Ecotoxicol Environ Saf 1995, 31, 23
Citations: 35) Borgert, C; Toxicol Appl Pharmacol 2004, 201, 85
Citations: 36) Altenburger, R; Food Chem Toxicol 1996, 34, 1155
Citations: 37) Boekelheide, K; Toxicol Sci 2007, 99, 1
Citations: 38) Faust, M; Competing concepts for the prediction of mixture toxicity: Do the differences matter for regulatory purposes? 2004, EVKI-CT1999-00012 ETOCDK 0730-7268 binary/ mixt/ chem/ toxicity/ synergy/ antagonism/ modeling

Cedergreen, Nina, Kudsk, Per, Mathiassen, Solvejg K., and Streibig, Jens C (2007). Combination effects of herbicides on plants and algae: do species and test systems matter? *Pest Manage. Sci.* 63: 282-295.

Chem Codes: Chemical of Concern: DQTBBr Code: MIXTURE.

Risk assessment of herbicides towards non-target plants in Europe is currently based solely on tests on algae and floating aquatic plants of *Lemna* sp. Effects on terrestrial non-target species is not systematically addressed. The purpose of the present study was to **compare combination effects of herbicide mixts. across aquatic and terrestrial test systems, and to test whether results obtained in the traditional aquatic test systems can be extrapolated to the terrestrial environment.** This was done by evaluating ten binary mixts. of nine herbicides representing the seven most commonly used mol. target sites for controlling broadleaved weeds. Data were evaluated statistically in relation to the concn. addn. model, and for selected concns. to the independent action model. The mixts. were tested on the terrestrial species *Tripleurospermum inodorum* (L.) Schultz-Bip. (Scentless Mayweed) and *Stellaria media* (L.) Vill. (Common Chickweed), and on the aquatic species *Lemna minor* L. (Lesser duckweed) and the alga *Pseudokirchneriella subcapitata* (Korschikov) Hindak. For the two mixts. of herbicides with the same mol. site of action, the joint effect was additive. For the eight mixts. of herbicides with different sites of action, two of the mixts. were consistently antagonistic across species, while for the remaining six mixts. the joint effect depended on

the species tested. This dependence was, however, not systematic, in the sense that none of the species or test systems (terrestrial vs. aquatic) had a significantly higher probability of showing synergistic or antagonistic joint effects than others. Synergistic interactions were not obsd., but approx. 70% of the mixts. of herbicides with different sites of action showed significant antagonism. Hence, the concn. addn. model can be used to est. worst-case effects of mixts. of herbicides on both terrestrial and aquatic species.

Comparing the sensitivity of the species to a 10% spray drift event showed that the terrestrial species were more vulnerable to all herbicides compared with the aquatic species, emphasizing the importance of including terrestrial non-target plants in herbicide risk assessment. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2007:262630

Chemical Abstracts Number: CAN 147:25089

Section Code: 4-4

Section Title: Toxicology

CA Section Cross-References: 5

Document Type: Journal

Language: written in English.

Index Terms: Herbicides; Lemna minor; Pseudokirchneriella subcapitata; Stellaria media;

Tripleurospermum maritimum inodorum (effects of herbicides and their mixts. on plants and algae)

CAS Registry Numbers: 85-00-7 (Diquat); 93-65-2 (Mecoprop); 94-74-6 (MCPA); 1071-83-6 (Glyphosate); 5915-41-3 (Terbutylazine); 50594-66-6 (Acifluorfen); 79510-48-8 (Metsulfuron); 82097-50-5

(Triasulfuron); 104206-82-8 (Mesotrione) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (effects of herbicides and their mixts. on plants and algae)

Citations: 1) Boutin, C; Environ Toxicol Chem 2000, 19, 2532

Citations: 2) Cedergreen, N; Ecotox Environ Saf 2004, 57, 153

Citations: 3) Mougin, C; Pestic Biochem Physiol 1991, 40, 1

Citations: 4) Varsano, R; Pestic Biochem Physiol 1992, 44, 174

Citations: 5) Cedergreen, N; Environ Toxicol Chem 2005, 24, 1676

Citations: 6) Faust, M; Final report 2004, EVKI-CT1999-00012, 2

Citations: 7) Cedergreen, N; Aquat Toxicol 2006, 78, 243

Citations: 8) Faust, M; Bull Environ Contam Toxicol 1994, 53, 134

Citations: 9) Streibig, J; Herbicides and their Mechanisms of Action 2000, 153

Citations: 10) Kudsk, P; Weed Res 1994, 34, 251

Citations: 11) van Valkenburg, W; Pesticide Formulations 1973, 1

Citations: 12) Streibig, J; Herbicide Bioassay 1993, 29

Citations: 13) Cedergreen, N; Pest Manag Sci 2005, 61, 1152

Citations: 14) Greco, W; Pharmacol Rev 1995, 47, 332

Citations: 15) Berenbaum, M; Pharmacol Rev 1989, 41, 93

Citations: 16) Faust, M; Aquat Toxicol 2003, 63, 43

Citations: 17) Berenbaum, M; J Theoret Biol 1985, 114, 413

Citations: 18) Altenburger, R; Environ Toxicol Chem 2000, 19, 2341

Citations: 19) Backhaus, T; Environ Toxicol Chem 2000, 19, 2348

Citations: 20) Faust, M; Aquat Toxicol 2001, 56, 13

Citations: 21) Anon; OECD guideline for testing of chemicals Terrestrial plant test:vegetative vigour test 2003, 1

Citations: 22) Anon; Water quality - duckweed growth inhibition 2004, ISO/WD 20079, 1

Citations: 23) Cedergreen, N; Aquat Toxicol 2004, 71, 261

Citations: 24) Cedergreen, N; Environ Toxicol Chem, 26(1), 149

Citations: 25) Tomlin, C; The e-Pesticide Manual 2002

Citations: 26) Cedergreen, N; Ecotoxicol Environ Saf 2004, 58, 314

Citations: 27) Maeng, J; Physiol Plant 1973, 28, 264

Citations: 28) Mayer, P; Water Res 1997, 31, 2525

Citations: 29) Anon; Water quality - fresh water algal growth inhibition test with Scenedesmus subspicatus and Selenastrum capricornutum 1989, 1

Citations: 30) Sorensen, H; Environ Ecol Stat, in press, 14

Citations: 31) Anon; R: A Language and Environment for Statistical Computing 2004

November 2010 ECOTOX multi-ai papers

Citations: 32) Hewlett, P; Biometrics 1969, 5, 478
Citations: 33) Volund, A; XVIth International Biometric Conference 1992, 249
Citations: 34) Altenburger, R; Ecotoxicol Environ Saf 1990, 20, 98
Citations: 35) Sokal, R; Biometry 1995, 1
Citations: 36) Wehtje, G; Weed Sci 1991, 39, 634
Citations: 37) Richter, M; Environ Sci Technol 2005, 39, 8753
Citations: 38) Wehtje, G; Weed Sci 1992, 40, 471
Citations: 39) Ottis, B; J Agric Food Chem 2005, 53, 4064
Citations: 40) Scherder, E; Weed Technol 2005, 19, 934
Citations: 41) Thelen, K; Weed Sci 1995, 43, 541
Citations: 42) Drost, W; Fresenius Environ Bull 2003, 12, 601
Citations: 43) Frankart, C; Ecotoxicol Environ Saf 2002, 53, 439
Citations: 44) Hatzios, K; Rev Weed Sci 1985, 1, 1
Citations: 45) Colby, S; Weeds 1967, 15, 20
Citations: 46) Mathiassen, S; Weed Res 1993, 33, 441
Citations: 47) Kudsk, P; Understanding Crop Protection Mixtures 1995, 95
Citations: 48) Kudsk, P; Weed Res 2004, 44, 313
Citations: 49) Nystrom, B; Aquat Toxicol 1999, 47, 9
Citations: 50) Brock, T; Environ Pollut 2004, 130, 403
Citations: 51) Bogestrand, J; Vandlob 2003, 1
Citations: 52) Martin, J; Pesticides in Streams 2003, 1
Citations: 53) Huber, A; Sci Total Environ 1998, 223, 177 PMSCFC 1526-498X herbicide/ mixt/ toxicity/ plant/ algae

Curcic, Marijana and Djukic, Mirjana (2006-). Nitric oxide in diquat neurotoxicity. 164: S117-S118 .
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

0378-4274

Curcic, Marijana, Djukic, Mirjana, Ninkovic, Milica, Vasiljevic, Ivana, and Jovanovic, Marina (2007-). Differences in nitric oxide release in CNS caused by paraquat and diquat. 172: S41.
Chem Codes: Chemical of Concern: DQTBr Code: ABSTRACT.

0378-4274

Czerczak, Slawomir and Kupczewska, Malgorzata (2002). Assignment of skin notation for maximum allowable concentration (MAC) list in Poland. *Appl. Occup. Environ. Hyg.* 17: 187-199.
Chem Codes: Chemical of Concern: DQTBr Code: REVIEW.

Org. chems. from the Polish max. allowable concn. (MAC) list were analyzed for skin notation. It can be concluded that the dermal dose LD50s detd. on exptl. animals ought to be adopted as the fundamental criterion for providing a substance with the percutaneous absorption notation in the MAC list. All chems. with LD50s value below 1000 mg/kg should be provided with the Sk index in the MAC list. For other chems., a skin notation would be considered when repeated human and dermal application tests have shown significant systemic effects following exposure. When information on the characteristics specified above were not available, physicochem. data required to calc. the flow (soly., octanol/water partition coeff., mol. wt.) were obtained to consider a skin notation. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2002:248008

Chemical Abstracts Number: CAN 137:227842

Section Code: 4-3

Section Title: Toxicology

Document Type: Journal

Language: written in English.

Index Terms: Chromates Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (VI;

assignment of skin notation for max. allowable concn. list in Poland); Polycyclic compounds Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (arom. hydrocarbons, cyclohexane extractable fraction; assignment of skin notation for max. allowable concn. list in Poland); Chemicals; Human; Skin; Standards (assignment of skin notation for max. allowable concn. list in Poland); Cyanides; Kerosene; Pyrethrins; Turpentine Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (assignment of skin notation for max. allowable concn. list in Poland); Chromates Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (dichromates, VI; assignment of skin notation for max. allowable concn. list in Poland); Limestone Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (dusts; assignment of skin notation for max. allowable concn. list in Poland); Gasoline Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (extn. naphtha and painters' naphtha; assignment of skin notation for max. allowable concn. list in Poland); Asphalt Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes; assignment of skin notation for max. allowable concn. list in Poland); Paraffin oils Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (oil mist, mineral; assignment of skin notation for max. allowable concn. list in Poland); Aromatic hydrocarbons Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (polycyclic, cyclohexane extractable fraction; assignment of skin notation for max. allowable concn. list in Poland)

CAS Registry Numbers: 111-46-6 (2,2'-Oxydiethanol) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (aerosol; assignment of skin notation for max. allowable concn. list in Poland); 1300-21-6D (Dichloroethane); 1300-73-8D; 1319-77-3D (Cresol); 1321-65-9D (Trichloronaphthalene); 1330-20-7D (Xylene); 25013-15-4D (Vinyltoluene); 25154-54-5D (Dinitrobenzene); 25167-93-5D (Chloronitrobenzene); 25321-14-6D (Dinitrotoluene); 25322-01-4D (Nitropropane); 25323-30-2D (Dichloroethene); 25340-17-4D (Diethylbenzene); 25550-14-5D (Ethyltoluene); 25550-58-7D (Dinitrophenol); 25639-42-3D (Methylcyclohexanol) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (all isomers; assignment of skin notation for max. allowable concn. list in Poland); 50-00-0 (Formaldehyde); 50-29-3 (DDT); 50-32-8 (Benzo[a]pyrene); 52-68-6 (Trichlorophenol); 53-70-3 (Dibenzo[a,h]anthracene); 54-11-5 (Nicotine); 55-38-9 (Fenthion); 55-63-0 (Nitroglycerin); 56-23-5 (Carbon tetrachloride); 57-14-7 (1,1-Dimethylhydrazine); 57-24-9 (Strychnine); 57-57-8 (2-Oxetanone); 58-89-9 (1,2,3,4,5,6-Hexachlorocyclohexane); 60-29-7 (Diethyl ether); 60-34-4 (Methylhydrazine); 60-51-5 (Dimethoate); 60-57-1 (Dieldrin); 62-53-3 (Aniline); 62-73-7 (Dichlorvos); 62-74-8 (Sodium fluoroacetate); 63-25-2 (Carbaryl); 64-17-5 (Ethanol); 64-18-6 (Formic acid); 64-19-7 (Acetic acid); 67-56-1 (Methanol); 67-63-0 (Isopropyl alcohol); 67-64-1 (Acetone); 67-66-3 (Chloroform); 67-72-1 (Hexachloroethane); 68-11-1 (Thioglycolic acid); 68-12-2 (Dimethylformamide); 71-23-8 (Propanol); 71-36-3 (Butan-1-ol); 71-41-0 (Pentan-1-ol); 71-43-2 (Benzene); 71-55-6 (1,1,1-Trichloroethane); 72-20-8 (Endrin); 74-83-9 (Bromomethane); 74-87-3 (Chloromethane); 74-88-4 (Iodomethane); 74-89-5 (Methylamine); 74-90-8 (Hydrogen cyanide); 74-93-1 (Methanethiol); 74-96-4 (Bromoethane); 74-97-5 (Bromochloromethane); 74-99-7 (Propyne); 75-00-3 (Chloroethane); 75-01-4 (Chloroethene); 75-04-7 (Ethylamine); 75-05-8 (Acetonitrile); 75-07-0 (Acetaldehyde); 75-08-1 (Ethanethiol); 75-09-2 (Dichloromethane); 75-15-0 (Carbon disulfide); 75-25-2 (Bromoform); 75-31-0 (Isopropylamine); 75-43-4 (Dichlorofluoromethane); 75-44-5 (Phosgene); 75-45-6 (Chlorodifluoromethane); 75-50-3 (Trimethylamine); 75-52-5 (Nitromethane); 75-56-9 (Epoxyp propane); 75-61-6 (Dibromodifluoromethane); 75-65-0 (tert-Butanol); 75-69-4 (Trichlorofluoromethane); 75-71-8 (Dichlorodifluoromethane); 75-99-0 (2,2-Dichloropropionic acid); 76-06-2 (Trichloronitromethane); 76-14-2 (1,2-Dichloro-1,1,2,2-tetrafluoroethane); 77-78-1 (Dimethyl sulfate); 78-00-2 (Tetraethyl lead); 78-10-4; 78-30-8 (Tris(2-tolyl) phosphate); 78-59-1 (Isophorone); 78-79-5 (Isoprene); 78-83-1 (Isobutyl alcohol); 78-84-2 (Isobutyraldehyde); 78-87-5 (1,2-Dichloropropane); 78-92-2 (Butan-2-ol); 78-93-3 (Butanone); 79-00-5 (1,1,2-Trichloroethane); 79-01-6 (Trichloroethene); 79-06-1 (Acrylamide); 79-09-4 (Propionic acid); 79-10-7 (Acrylic acid); 79-11-8 (Chloroacetic acid); 79-20-9 (Methyl acetate); 79-24-3 (Nitroethane); 79-27-6 (1,1,2,2-Tetrabromoethane); 79-34-5 (1,1,2,2-Tetrachloroethane); 80-62-6 (Methyl methacrylate); 84-66-2 (Diethyl phthalate); 84-74-2 (Dibutyl phthalate); 87-61-6 (1,2,3-Trichlorobenzene); 87-86-5 (Pentachlorophenol); 88-74-4 (2-Nitroaniline); 88-89-1 (Picric acid); 90-04-0 (2-Methoxyaniline); 90-12-0 (1-Methylnaphthalene); 91-08-7 (Toluene-2,6-diisocyanate); 91-17-8 (Bicyclo[4.4.0]decane); 91-20-3 (Naphthalene); 91-20-3D (Naphthalene); 91-59-8 (2-Naphthylamine); 92-52-4 (Biphenyl); 92-52-4D (Biphenyl); 92-67-1 (Biphenyl-4-amine); 92-84-2 (Dibenzo-1,4-thiazine); 92-87-5 (Benzidine); 94-36-0 (Benzoyl peroxide); 94-74-6 (MCPA); 94-75-7 (2,4-D); 95-49-8 (2-Chlorotoluene); 95-50-1 (1,2-Dichlorobenzene); 95-51-2 (2-Chloroaniline); 95-53-4 (2-Tolylamine); 95-63-6 (1,2,4-Trimethylbenzene); 95-80-7

(Toluene-2,4-diamine); 96-33-3 (Methyl acrylate); 97-88-1 (Butyl methacrylate); 98-00-0 (2-Furylmethanol); 98-01-1 (2-Furaldehyde); 98-51-1 (4-tert-Butyltoluene); 98-82-8 (Cumene); 98-86-2 (Acetophenone); 98-95-3 (Nitrobenzene); 99-08-1 (3-Nitrotoluene); 99-09-2 (3-Nitroaniline); 99-99-0 (4-Nitrotoluene); 100-01-6 (4-Nitroaniline); 100-37-8 (2-(Diethylamino)ethanol); 100-40-3 (4-Vinylcyclohexene); 100-41-4 (Ethylbenzene); 100-42-5 (Styrene); 100-44-7 (Chloro(phenyl)methane); 100-52-7 (Benzaldehyde); 100-61-8 (N-Methylaniline); 100-63-0 (Phenylhydrazine); 100-97-0 (Hexamethylenetetramine); 101-14-4 (2,2'-Dichloro-4,4'-methylenedianiline); 101-68-8 (4,4'-Methylenebis(phenylisocyanate)); 101-84-8 (Diphenyl ether); 103-11-7 (2-Ethylhexyl acrylate); 103-84-4; 104-94-9 (4-Methoxyaniline); 105-46-4 (sec-Butyl acetate); 105-60-2 (Hexano-6-lactam); 106-46-7 (1,4-Dichlorobenzene); 106-47-8 (4-Chloroaniline); 106-48-9 (4-Chlorophenol); 106-50-3 (1,4-Phenylenediamine); 106-51-4 (p-Benzoquinone); 106-87-6 (1,2-Epoxy-4-(epoxyethyl)cyclohexane); 106-89-8 (1-Chloro-2,3-epoxypropane); 106-93-4 (1,2-Dibromoethane); 106-97-8 (Butane); 106-99-0 (Buta-1,3-diene); 107-02-8 (Acrylaldehyde); 107-07-3 (2-Chloroethanol); 107-13-1 (Acrylonitrile); 107-15-3 (Ethylenediamine); 107-18-6 (Allyl alcohol); 107-19-7 (Prop-2-yn-ol); 107-20-0 (Chloroacetaldehyde); 107-21-1 (Ethylene glycol); 107-87-9 (Methyl propyl ketone); 107-98-2 (1-Methoxypropan-2-ol); 108-05-4 (Vinyl acetate); 108-10-1 (Methyl isobutyl ketone); 108-11-2 (4-Methylpentan-2-ol); 108-20-3 (Diisopropyl ether); 108-21-4 (Isopropyl acetate); 108-24-7 (Acetic anhydride); 108-31-6 (Maleic anhydride); 108-42-9 (3-Chloroaniline); 108-46-3 (Resorcinol); 108-65-6; 108-67-8 (1,3,5-Trimethylbenzene); 108-70-3 (1,3,5-Trichlorobenzene); 108-83-8 (2,6-Dimethylheptan-4-one); 108-84-9 (1,3-Dimethylbutyl acetate); 108-87-2 (Methylcyclohexane); 108-88-3 (Toluene); 108-90-7 (Chlorobenzene); 108-91-8 (Cyclohexylamine); 108-93-0 (Cyclohexanol); 108-94-1 (Cyclohexanone); 108-95-2 (Phenol); 109-02-4 (N-Methylmorpholine); 109-60-4 (Propyl acetate); 109-66-0 (Pentane); 109-79-5 (Butyl mercaptan); 109-86-4 (2-Methoxyethanol); 109-87-5 (Dimethoxymethane); 109-89-7 (Diethylamine); 109-94-4 (Ethyl formate); 109-99-9 (Tetrahydrofuran); 110-43-0 (Heptan-2-one); 110-49-6 (2-Methoxyethyl acetate); 110-54-3 (Hexane); 110-54-3D (Hexane); 110-80-5 (2-Ethoxyethanol); 110-82-7 (Cyclohexane); 110-83-8 (Cyclohexene); 110-86-1 (Pyridine); 110-88-3 (1,3,5-Trioxane); 110-91-8 (Morpholine); 111-15-9 (2-Ethoxyethyl acetate); 111-30-8 (Glutaraldehyde); 111-40-0; 111-44-4 (Bis(2-chloroethyl)ether); 111-65-9 (Octane); 111-76-2 (2-Butoxyethanol); 112-07-2 (2-Butoxyethyl acetate); 112-24-3 (N,N'-Bis(2-Aminoethyl)ethylenediamine); 114-26-1 (Propoxur); 115-29-7 (Endosulfan); 117-81-7 (Bis(2-ethylhexyl)phthalate); 118-74-1 (Hexachlorobenzene); 118-95-6 (2-Isopropyl-4,6-dinitrophenol); 118-96-7 (2,4,6-Trinitrotoluene); 119-64-2 (1,2,3,4-Tetrahydronaphthalene); 120-82-1 (1,2,4-Trichlorobenzene); 121-69-7 (N,N-Dimethylaniline); 121-75-5 (Malathion); 121-82-4; 122-14-5 (Fenitrothion); 122-60-1 (1,2-Epoxy-3-phenoxypropane); 123-31-9 (Hydroquinone); 123-51-3 (3-Methylbutan-1-ol); 123-73-9 ((E)-But-2-enal); 123-86-4 (Butyl acetate); 123-91-1 (Dioxane); 123-92-2 (Isopentyl acetate); 124-04-9 (Adipic acid); 124-38-9 (Carbon dioxide); 124-40-3 (Dimethylamine); 126-99-8 (2-Chlorobuta-1,3-diene); 127-18-4 (Tetrachloroethene); 127-19-5 (N,N-Dimethylacetamide); 127-20-8 (2,2-Dichloropropionic acid sodium salt); 131-11-3 (Dimethyl phthalate); 133-06-2 (Captan); 134-32-7 (1-Naphthylamine); 135-88-6 (Phenyl(2-naphthyl)amine); 137-26-8 (Thiram); 140-88-5 (Ethyl acrylate); 141-32-2 (Butyl acrylate); 141-43-5 (2-Aminoethanol); 141-78-6 (Ethyl acetate); 141-79-7 (Mesityl oxide); 142-82-5 (Heptane); 144-62-7 (Oxalic acid); 151-67-7 (Halothane); 156-62-7 (Calcium cyanamide); 298-00-0 (Methyl parathion); 302-01-2 (Hydrazine); 309-00-2 (Aldrin); 420-04-2 (Cyanamide); 460-19-5 (Ethanedinitrile); 463-51-4 (Ketene); 470-90-6 (Chlorophenvinphos); 504-29-0 (2-Pyridylamine); 509-14-8 (Tetranitromethane); 526-73-8 (1,2,3-Trimethylbenzene); 534-52-1 (2-Methyl-4,6-dinitrophenol); 540-88-5 (tert-Butyl acetate); 541-85-5 (5-Methylheptan-3-one); 542-92-7 (Cyclopenta-1,3-diene); 556-52-5 (Oxiranemethanol); 583-60-8 (2-Methylcyclohexanone); 584-84-9 (Toluene-2,4-diisocyanate); 591-78-6 (Hexan-2-one); 594-72-9 (1,1-Dichloro-1-nitroethane); 600-25-9 (1-Chloro-1-nitropropane); 620-11-1 (3-Pentyl acetate); 625-16-1 (tert-Pentyl acetate); 626-38-0 (2-Pentyl acetate); 627-13-4 (Propyl nitrate); 628-63-7 (Pentyl acetate); 628-96-6 (Ethylene glycol dinitrate); 630-08-0 (Carbon monoxide); 646-06-0 (1,3-Dioxolane); 680-31-9 (Hexamethyl phosphoramidate); 822-06-0 (Hexane-1,6-diisocyanate); 919-86-8 (Demeton-S-methyl); 944-22-9 (Fonofos); 999-81-5 (Chlormequat chloride); 1071-83-6 (Glyphosate); 1073-67-2 (4-Chlorostyrene); 1305-62-0 (Calcium hydroxide); 1305-78-8 (Calcium oxide); 1310-58-3 (Potassium hydroxide); 1310-73-2 (Sodium hydroxide); 1314-56-3 (Phosphorus oxide (P2O5)); 1314-80-3 (Tetraphosphorus decasulfide); 1344-28-1 (Aluminum trioxide); 1563-66-2 (Carbofuran); 1912-24-9 (Atrazine); 2179-59-1 (Allyl propyl disulfide); 2238-07-5 (Bis(2,3-epoxypropyl)ether); 2426-08-6 (1-Butoxy-2,3-epoxypropane); 2921-88-2 (Chlorpyrifos); 4016-14-2 (1,2-Epoxy-3-isopropoxypropane);

6607-45-0 ((1,2-Dichlorovinyl)benzene); 7440-25-7 (Tantalum); 7440-47-3 (Chromium); 7446-09-5 (Sulfur dioxide); 7446-11-9 (Sulfur trioxide); 7553-56-2 (Iodine); 7580-67-8 (Lithium hydride); 7601-90-3 (Perchloric acid); 7646-85-7 (Zinc dichloride); 7647-01-0 (Hydrogen chloride); 7664-38-2 (Phosphoric acid); 7664-39-3 (Hydrogen fluoride); 7664-41-7 (Ammonia); 7664-93-9 (Sulfuric acid); 7697-37-2 (Nitric acid); 7719-12-2 (Phosphorus trichloride); 7722-84-1 (Hydrogen peroxide); 7726-95-6 (Bromine); 7782-41-4 (Fluorine); 7782-50-5 (Chlorine); 7783-06-4 (Hydrogen sulfide); 7783-60-0 (Sulfur tetrafluoride); 7784-42-1 (Arsine); 7789-30-2 (Bromine pentafluoride); 7803-51-2 (Phosphine); 7803-52-3 (Stibine); 8065-48-3 (Demeton); 10025-67-9 (Disulfur dichloride); 10026-13-8 (Phosphorus pentachloride); 10028-15-6 (Ozone); 10035-10-6 (Hydrogen bromide); 10049-04-4 (Chlorine dioxide); 10102-43-9 (Nitrogen oxide (NO)); 10102-44-0 (Nitrogen oxide (NO₂)); 12768-78-4 (Acid green 16); 14977-61-8 (Chromyl chloride); 17702-41-9 (Decaborane(14)); 19287-45-7 (Diborane(6)); 20816-12-0 (Osmium tetroxide); 25551-13-7 (Trimethylbenzene); 25567-67-3D (Chlorodinitrobenzene); 33399-00-7 (Bromphenvinphos); 34590-94-8 (Dipropylene glycol methyl ether); 63907-41-5; 70657-70-4 (2-Methoxypropyl acetate) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (assignment of skin notation for max. allowable concn. list in Poland); 16065-83-1 (Chromium III) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (compds.; assignment of skin notation for max. allowable concn. list in Poland); 62-44-2 (4'-Ethoxyacetanilide); 72-43-5 (Methoxychlor); 85-00-7 (Diquat dibromide); 108-80-5 (1,3,5-Triazine-2,4,6-trione); 123-30-8 (4-Aminophenol); 1303-86-2 (Diboron trioxide); 1303-96-4 (Borax (B₄Na₂O₇·10H₂O)); 7727-21-1; 7773-06-0 (Ammonium sulfamate); 12604-58-9 (Ferrovanadium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (dusts; assignment of skin notation for max. allowable concn. list in Poland); 7439-98-7 (Molybdenum); 7440-02-0 (Nickel); 7440-28-0 (Thallium); 7440-32-6 (Titanium); 7440-50-8 (Copper); 7440-58-6 (Hafnium); 7440-67-7 (Zirconium); 7782-49-2 (Selenium); 13494-80-9 (Tellurium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental and compds.; assignment of skin notation for max. allowable concn. list in Poland); 7440-36-0 (Antimony); 7440-38-2 (Arsenic); 7440-39-3 (Barium); 7440-41-7 (Beryllium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental and inorg. compds. contg.; assignment of skin notation for max. allowable concn. list in Poland); 7440-43-9 (Cadmium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental and inorg. compds., fumes and dust; assignment of skin notation for max. allowable concn. list in Poland); 7440-31-5 (Tin) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental and inorg. compds., fumes and dusts; assignment of skin notation for max. allowable concn. list in Poland); 7439-92-1 (Lead); 7439-96-5 (Manganese) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental and inorg. compds.; assignment of skin notation for max. allowable concn. list in Poland); 7440-48-4 (Cobalt) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental, fumes and dust; assignment of skin notation for max. allowable concn. list in Poland); 7439-97-6 (Mercury) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental, org. and inorg. compds., vapors; assignment of skin notation for max. allowable concn. list in Poland); 7440-61-1 (Uranium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (elemental, sol. compds., and insol. compds.; assignment of skin notation for max. allowable concn. list in Poland); 16984-48-8 (Fluoride) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fluorides; assignment of skin notation for max. allowable concn. list in Poland); 1309-48-4 (Magnesium oxide); 1314-62-1 (Vanadium pentoxide) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes and dusts; assignment of skin notation for max. allowable concn. list in Poland); 7440-33-7 (Tungsten) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes, dusts, insol. compds., and sol. compds.; assignment of skin notation for max. allowable concn. list in Poland); 7440-50-8D (Copper) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes, dusts, sol. and insol. salts; assignment of skin notation for max. allowable concn. list in Poland); 7440-22-4 (Silver) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes, dusts, sol. compds., and insol. compds.; assignment of skin notation for max. allowable concn. list in Poland); 1309-37-1 (Iron oxide); 1314-13-2 (Zinc oxide) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (fumes; assignment of skin notation for max. allowable concn. list in Poland); 7440-65-5 (Yttrium) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (metal and compds.; assignment of skin notation for max. allowable concn. list in Poland); 7440-06-4 (Platinum) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (metal; assignment of skin notation for max. allowable concn. list in Poland); 76-22-2 (Camphor) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (synthetic; assignment of skin notation for max. allowable concn. list

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in Poland); 108-77-0 (2,4,6-Trichloro-1,3,5-triazine) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (vapors and aerosol; assignment of skin notation for max. allowable concn. list in Poland); 85-44-9 (Phthalic anhydride) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (vapors and aerosols; assignment of skin notation for max. allowable concn. list in Poland); 12125-02-9 (Ammonium chloride) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (vapors and fumes; assignment of skin notation for max. allowable concn. list in Poland); 7723-14-0 (Phosphorus) Role: ADV (Adverse effect, including toxicity), BIOL (Biological study) (yellow; assignment of skin notation for max. allowable concn. list in Poland)

Citations: 1) Berner, B; Transdermal Delivery of Drugs 1987, II, 41

Citations: 2) de Cock, J; Ann Occup Hyg 1996, 40(5), 611

Citations: 3) Czerczak, S; Pol J Occup Med Environ Health 1993, 6(1), 1

Citations: 4) Czerczak, S; Pol J Occup Med Environ Health 1993, 6(2), 117

Citations: 5) Czerczak, S; Pol J Occup Med Environ Health 1993, 6(3), 245

Citations: 6) Drexler, H; Int Arch Occup Environ Health 1998, 71, 503

Citations: 7) European Centre for Ecotoxicology and Toxicology of Chemicals Ecetoc; ECETOC Strategy for Assigning a "Skin Notation" 1993, Documentation No 31

Citations: 8) Fiserova-Bergerova, V; Am J Indus Med 1990, 17, 617

Citations: 9) Grandjean, P; Am J Indus Med 1988, 14, 97

Citations: 10) Central Institute of Labour Protection; Intersectoral Commission for Updating Register of MAC Values. Hazardous Substances in the Workplace 1999

Citations: 11) Kennedy, G; Appl Occup Environ Hyg 1993, 8(1), 26

Citations: 12) Anon; Registry of Toxic Effects of Chemical Substances (RTECS), Data Base on CD-ROM 2000

Citations: 13) Scansetti, G; Am J Indus Med 1988, 14, 725

Citations: 14) Wester, R; Cutaneous Toxicity 1977, 111

Citations: 15) ACGIH; Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices 2000 AOEHE9 1047-322X chem/ skin/ std

D'silva, E. T., Winter, J. D., and Patino, R. (1997). The Stress Response and Development of Juvenile Largemouth Bass Exposed to Sublethal Concentrations of Aquatic Herbicides. *Annual meeting of the ecological society of america held jointly with the nature conservancy on changing ecosystems: natural and human influences, albuquerque, new mexico, usa, august 10-14, 1997. Bulletin of the ecological society of america* 78: 242.
Chem Codes: Chemical of Concern: DQTB_r Code: ABSTRACT.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM MEETING **ABSTRACT** MEETING POSTER
LARGEMOUTH BASS JUVENILES TOXICOLOGY FRESHWATER ECOLOGY 2 4-D AQUATIC
HERBICIDE DIQUAT FLURIDONE ENDOTHALL GLYPHOSATE GONADAL DEVELOPMENT
GONADS REPRODUCTIVE SYSTEM
MESH HEADINGS: CONGRESSES
MESH HEADINGS: BIOLOGY
MESH HEADINGS: ECOLOGY
MESH HEADINGS: FRESH WATER
MESH HEADINGS: GENITALIA/PHYSIOLOGY
MESH HEADINGS: GENITALIA/METABOLISM
MESH HEADINGS: REPRODUCTION
MESH HEADINGS: ENVIRONMENTAL POLLUTANTS/POISONING
MESH HEADINGS: OCCUPATIONAL DISEASES
MESH HEADINGS: HERBICIDES
MESH HEADINGS: PEST CONTROL
MESH HEADINGS: PESTICIDES
MESH HEADINGS: FISHES
KEYWORDS: General Biology-Symposia
KEYWORDS: Ecology
KEYWORDS: Reproductive System-Physiology and Biochemistry
KEYWORDS: Toxicology-Environmental and Industrial Toxicology
KEYWORDS: Pest Control

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KEYWORDS: Osteichthyes eng

De Jong, F. M. W. and Udo de Haes, H. A. (2001). Development of a Field Bioassay for the Side-Effects of Herbicides on Vascular Plants Using Brassica Napus and Poa Annua. *Environmental Toxicology*, 16 (5) pp. 397-407, 2001.

Chem Codes: Chemical of Concern: DQTBr Code: NO EFFECT.

Descriptors: Herbicide

Descriptors: Drift

Descriptors: Field biassays

Descriptors: Brassica napus

Descriptors: Poa annua

Abstract: A field bioassay method has been developed for assessing side-effects of herbicides on Brassica napus and Poa annua. The test method aims at effects outside the target area, up to 20 m from the treated parcel. Experiments were conducted in the field and in a glasshouse with the herbicides **atrazin**, **bentazone**, **diquat**, **glyphosate**, and **r(4-chloro-2-methylphenoxyacetic acid) MCPA**. An iterative procedure was used with the aim of developing a sound test procedure. The resulting method appeared to be very sensitive. Pesticide drift was measured using water-sensitive paper. Effects were sometimes found below the detection limit of this method (at 8 m from the treated parcel with moderate wind speeds of 3-5 m/s). The sensitivity of the test and the test conditions are discussed and an optimized method is presented. (copyright) 2001 John Wiley & Sons, Inc.

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Publication Type: Article

Country of Publication: United States

Classification: 92.10.4.1 CROP SCIENCE: Crop Protection: Weeds

Classification: 92.10.2.7 CROP SCIENCE: Agronomy and Horticulture: Leguminous and forage crops

Subfile: Plant Science English. English

Dunn, Allison M (2004). A relative risk ranking of pesticides used in Prince Edward Island.

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

Establishing priorities for regulatory and scientific assessments of pesticides is difficult given the large no. of registered pesticide products and varied use patterns of each product. According to the general paradigm of "Risk = Toxicity * Exposure", a relative risk ranking of agricultural pesticides was developed using a modified Chem. Hazard and Evaluation for Management Strategies (CHEMS) model. Release-weighting factors were derived using pesticide sales information. Factors for each active in each media were detd. on a scale of 1 to 10 relative to the largest pesticide release in each resp. media. A risk score was then tabulated by multiplying the sum of release-weighted toxicity endpoints (i.e. acute oral LD50, acute inhalation LC50, carcinogenicity rating, no obsd. adverse affect level, **acute fish LC50**, **acute Daphnia EC50**) by the sum of weighted exposure factors (i.e. soil half-life, log BCF). While the model makes use of toxicity and exposure data, the risk ranking produced does not represent a risk assessment. Rather, the results from CHEMS should be viewed as a quant. risk ranking used to prioritize substances for future risk assessment and management activities. Hazard and exposure data were collected for a subset of 31 active ingredients, representing 94% of Prince Edward Island's 2001 pesticide sales by mass. According to the resultant risk scores, the highest ranked substances were chlorothalonil, diquat dibromide, mancozeb, metiram, and carbofuran. Limitations included the use of pesticide sales data as a proxy for release and the reliance on modeled data for log BCF and detg. environmental partitioning. In spite of its limitations, the CHEMS risk ranking scheme provides a useful tool for prioritizing pesticides of concern, for future action. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2004:426728

Chemical Abstracts Number: CAN 141:326966

Section Code: 4-4

Section Title: Toxicology

Document Type: Report; General Review

November 2010 ECOTOX multi-ai papers

International Standard Document Number: 0707-9796

Language: written in English.

Index Terms: Carcinogens; Daphnia magna; Environmental pollution; Health hazard; Human; Pesticides; Risk assessment; Simulation and Modeling; Toxicity (relative risk ranking of pesticides used in Prince Edward Island)

CAS Registry Numbers: 60-51-5 (Dimethoate); 63-25-2 (Carbaryl); 76-06-2 (Chloropicrin); 85-00-7 (Diquat dibromide); 86-50-0 (Azinphosmethyl); 94-74-6 (MCPA); 94-75-7 (2,4-D); 115-29-7 (Endosulfan); 137-26-8 (Thiram); 148-79-8 (Thiabendazole); 330-55-2 (Linuron); 542-75-6 (1,3-Dichloropropene); 732-11-6 (Phosmet); 1071-83-6 (Glyphosate); 1563-66-2 (Carbofuran); 1897-45-6 (Chlorothalonil); 1912-24-9 (Atrazine); 3060-89-7 (Metobromuron); 4685-14-7 (Paraquat); 5234-68-4 (Carbathiin); 8018-01-7 (Mancozeb); 9006-42-2 (Metiram); 10265-92-6 (Methamidophos); 21087-64-9 (Metribuzin); 23564-05-8 (Thiophanatemethyl); 51235-04-2 (Hexazinone); 60207-90-1 (Propiconazole); 70630-17-0 (Metalaxyl-M); 79241-46-6; 122931-48-0 (Rimsulfuron); 138261-41-3 (Imidacloprid) Role: ADV (Adverse effect, including toxicity), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (relative risk ranking of pesticides used in Prince Edward Island)

Citations: Bintein, S; SAR QSAR Environ Res 1993, 1, 29

Citations: Center for Clean Products and Clean Technologies (CCPCT); Comparative Evaluation of Chemical Ranking and Scoring Methodologies 1994

Citations: Environment Canada; A Risk Ranking of National Pollutant Release Inventory Substances in the Atlantic Provinces 2000, Environmental Surveillance Report EPS-5-AR-00-3

Citations: Environment Canada; Guidance Manual for the Categorization of Organic and Inorganic Substances on Canada's Domestic Substances List 2003

Citations: Anon; Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/> 2003

Citations: Anon;

http://www.gov.pe.ca/infopei/Environment_and_Land/Water_Resources/Fish_Kill_Investigations_1994-2000/ 2004

Citations: International Agency for Research on Cancer; <http://www.iarc.fr/> 2003

Citations: International Programme on Chemical Safety; Joint Meeting on Pesticide Residues (JMPR), <http://www.inchem.org/> 2003

Citations: Mackay, D; Multimedia Environmental Models: The Fugacity Approach 1991

Citations: Mackay, D; Physical Chemical Properties and Environmental Fate Handbook 2000

Citations: Mutch, J; Relative Ranking of Acute Pesticide Risks to Fish 1999, AGDEX 607/99-02

Citations: Mutch, J; Proceedings of 27th Annual Aquatic Toxicity Workshop 2000, Canadian Technical Report of Fisheries and Aquatic Sciences 2331

Citations: Ritter, L; Cancer 1997, 80, 2019

Citations: Snyder, E; Environ Sci Poll Res 2000, 7(1), 52

Citations: Swanson, M; Environmental Toxicology and Chemistry 1997, 16(2), 372

Citations: Anon; Chemical Ranking and Scoring: Guidelines for Relative Assessments of Chemicals 1997

Citations: Swanson; Personal communication 2000

Citations: Tomlin, C; A World Compendium: The Pesticide Manual, 12th Edition 2000, 1250

Citations: Anon; USDA Pesticide Properties Database, <http://www.arsusda.gov/acsl/ppdb.html> 2003

Citations: Anon; Federal Register 1995, 15366

Citations: Anon; US EPA ECOTOX Database, <http://www.epa.gov/ecotox/> 2003

Citations: Anon; US EPA Exposure Tools and Software: EPI Suite v 3.10, <http://www.epa.gov/oppt/exposure/docs/episuitd.htm> 2003

Citations: US EPA Integrated Risk Information System; <http://www.epa.gov/iris/> 2003

Citations: Anon; US EPA's Reregistration Eligibility Decision (RED) documents, <http://www.epa.gov/pesticides/reregistration/> 2003 SRESM risk/ ranking/ pesticide/ Prince/ Edward/ Island/ review/ risk/ ranking/ pesticide/ Prince/ Edward/ Island

Ericsson, N. A. (1987). A Trial With Herbicides in an Apple Orchard 1975-1979. *Sver lantbruksuniv inst tradgardsvetensk rapp* 0: 1-28.

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. RRM DANDELIONS GLYPHOSATE TERBUTYLAZIN SINBAR PARAQUAT DIQUAT TERBACIL LENACIL PROPYZAMID WATER

November 2010 ECOTOX multi-ai papers

NUTRIENTS SWEDEN WEED CONTROL SHOOT GROWTH FRUIT YIELD

MESH HEADINGS: BIOCHEMISTRY

MESH HEADINGS: MINERALS

MESH HEADINGS: MINERALS

MESH HEADINGS: NUTRITIONAL REQUIREMENTS

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: WATER/METABOLISM

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: NUTRITION

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: PLANTS/ANATOMY & HISTOLOGY

MESH HEADINGS: REPRODUCTION

MESH HEADINGS: GRASSES/GROWTH & DEVELOPMENT

MESH HEADINGS: SOIL

MESH HEADINGS: CLIMATE

MESH HEADINGS: FRUIT

MESH HEADINGS: NUTS

MESH HEADINGS: HERBICIDES

MESH HEADINGS: PEST CONTROL

MESH HEADINGS: PESTICIDES

MESH HEADINGS: PLANTS

MESH HEADINGS: PLANTS, MEDICINAL

KEYWORDS: Biochemical Studies-General

KEYWORDS: Biochemical Studies-Minerals

KEYWORDS: Nutrition-Minerals

KEYWORDS: Plant Physiology

KEYWORDS: Plant Physiology

KEYWORDS: Plant Physiology

KEYWORDS: Plant Physiology

KEYWORDS: Agronomy-Weed Control

KEYWORDS: Horticulture-Temperate Zone Fruits and Nuts

KEYWORDS: Pest Control

KEYWORDS: Compositae

KEYWORDS: Rosaceae swe

Giudice, Ben D., Massoudieh, Arash, Huang, Xinjiang, and Young, Thomas M (2008). A Stochastic Simulation Procedure for Selecting Herbicides with Minimum Environmental Impact. *Environ. Sci. Technol.* 42: 354-360.

Chem Codes: Chemical of Concern: DQTBr Code: MODELING.

A math. environmental transport model of roadside applied herbicides at site-scale (.apprx.100 m) was stochastically applied using a Monte-Carlo technique to simulate concns. of 33 herbicides in storm water runoff. Field surveys, lab. sorption data, and literature data generated probability distribution functions for model input parameters to allow model extrapolation to a regional scale. Predicted concns. were compared to USEPA acute toxicity end-points for aquatic organisms to det. the frequency of potentially toxic outcomes. Results are presented for 3 geog. regions in California and 2 highway geometries. For a given herbicide,

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frequency of potential toxicity (FPT) varied by as much as 36% between region and highway type. Of 33 herbicides modeled, 16 exhibited av. FPT >50% at the max. herbicide application rate; 20 exhibited av. FPT <50% at the min. herbicide application rate. Based on these FPT and current use statistics, selected herbicides were detd. to be more environmentally acceptable than others in terms of acute toxicity and other documented environmental effects. This anal. created a decision support system which can evaluate relative water quality impacts of varied herbicide application practices. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2008:29924

Chemical Abstracts Number: CAN 148:245727

Section Code: 61-2

Section Title: Water

CA Section Cross-References: 4, 5, 10, 12, 59

Document Type: Journal

Language: written in English.

Index Terms: Simulation and Modeling (Monte Carlo; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Toxicity (acute, threshold herbicide; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Biota (aquatic, herbicide toxicity to; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Risk assessment (environmental risk assessment; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Algae (herbicide toxicity to; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Daphnia; Environmental modeling; Environmental pollution control; Fish; Herbicides (stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California); Water pollution (storm water runoff; stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California)

CAS Registry Numbers: 75-60-5 (Cacodylic acid); 85-00-7 (Diquat); 112-05-0 (Pelargonic acid); 122-34-9 (Simazine); 124-58-3 (Methylarsonic acid); 314-40-9 (Bromacil); 330-54-1 (Diuron); 1071-83-6 (Glyphosate); 1194-65-6 (Dichlobenil); 1582-09-8 (Trifluralin); 1702-17-6 (Clopyralid); 1918-00-9 (Dicamba); 15299-99-7 (Napropamide); 19044-88-3 (Oryzalin); 19666-30-9 (Oxadiazon); 23950-58-5 (Propyzamide); 27314-13-2 (Norflurazon); 29091-21-2 (Prodiamine); 34014-18-1 (Tebuthiuron); 40487-42-1 (Pendimethalin); 42874-03-3 (Oxyfluorfen); 51276-47-2 (Glufosinate); 53780-34-0 (Mefluidide); 55335-06-3 (Triclopyr); 64902-72-3 (Chlorsulfuron); 74051-80-2 (Sethoxydim); 74222-97-2 (Sulfometuron methyl); 76738-62-0 (Paclobutrazol); 79241-46-6; 82558-50-7 (Isoxaben); 97886-45-8 (Dithiopyr); 99129-21-2 (Clethodim); 100784-20-1 (Halosulfuron methyl) Role: ADV (Adverse effect, including toxicity), MOA (Modifier or additive use), POL (Pollutant), TEM (Technical or engineered material use), BIOL (Biological study), OCCU (Occurrence), USES (Uses) (stochastic simulation procedure to select herbicides with min. environmental impact as storm water runoff pollutants and acute aquatic biota toxicity on site and regional scales, California)

Citations: 1) Peterson, R; Weed Sci 2004, 52, 834

Citations: 2) Loll, P; Water Resour Res 2000, 36, 959

Citations: 3) Lindahl, A; J Environ Qual 2005, 34, 1174

Citations: 4) Soutter, M; J Contam Hydrol 1998, 32, 25

Citations: 5) Huber, A; Sci Total Environ 1998, 223, 177

Citations: 6) Probst, M; Ecotoxicol Environ Safety 2005, 62, 145

Citations: 7) Nystrom, B; Aquat Toxicol 1999, 47, 9

Citations: 8) Okamura, H; Environ Pollut 2002, 117, 411

Citations: 9) Huang, X; Environ Toxicol Chem 2005, 24, 2336

Citations: 10) Massoudieh, A; J Environ Eng 2005, 131, 1057

Citations: 11) Huang, X; Evaluation of Factors Controlling Herbicide Runoff To Surface Water 2005

Citations: 12) Huang, X; Environ Sci Technol 2004, 38, 3263
 Citations: 13) Tomlin, C; The Pesticide Manual:a World Compendium; 11th ed 1997
 Citations: 14) Vogue, P; <http://ace.orst.edu/info/npic/pp-dmove.htm> 1994
 Citations: 15) Roberts, T; Metabolic Pathways of Agrochemicals 1998
 Citations: 16) Pesticide Action Network North America; <http://www.pesticideinfo.org/> 2006
 Citations: 17) United States Department Of Agriculture;
http://www.ars.usda.gov/SP2UserFiles/ad_hoc/12755100DatabaseFiles/PesticidePropertiesDatabase/IndividualPesticideFiles/MS-MA.TXT 1995
 Citations: 18) U S Environmental Protection Agency; <http://www.epa.gov/ecotox/> 2006
 Citations: 19) U S Department Of Agriculture;
<http://www.pesticideinfo.org/references/83601-83-6usda%20.doc> 1995
 Citations: 20) Syngenta Crop Protection Uk Ltd;
<http://www.fluorideaction.org/pesticides/msds/fluazifop-p-butyl.product.use.fusilade.max.pdf> 2002
 Citations: 21) Anon; Caltrans Storm Water Program Annual Report:Fiscal Year 2003-2004 2005
 Citations: 22) Hanley, T; Fundam Appl Toxicol 1984, 4, 872
 Citations: 23) U S Environmental Protection Agency Office Of Pesticide Programs; Reregistration eligibility decision document:Triclopyr 1998
 Citations: 24) Stevens, J; Handbook of Pesticide Toxicology 1991, 10
 Citations: 25) Chevron Chemical Company; Diquat herbicide h/a for aquatic plant treatment; Agricultural Chemicals Division 1986
 Citations: 26) Anon; Weed Science Society of America Herbicide Handbook, 7th ed 1994
 Citations: 27) Anon; U S Environmental Protection Agency Report of the food quality protection act (FQPA) tolerance reassessment progress and risk management decision (TRED) for Fluazifop-P-butyl 2005
 Citations: 1) Center, N; 1,2 ed 1999, 2005
 Citations: 2) Huang, X; Evaluation of Factors Controlling Herbicide Runoff to Surface Water 2005
 Citations: 3) van Genuchten, M; Soil Science Society of America Journal 1980, 44, 892
 Citations: 4) Massoudieh, A; Journal of Environmental Engineering 2005, 131, 1057
 Citations: 5) Carsel, R; Water Resources Research 1988, 24, 755 ESTHAG 0013-936X stochastic/ simulation/ procedure/ herbicide/ selection/ minimal/ environmental/ impact;/ storm/ water/ runoff/ pollution/ herbicide/ roadside/ application;/ herbicide/ acute/ toxicity/ aquatic/ organism/ Monte/ Carlo/ simulation

Glomb, V., Artner, P., and Sequens, J. (1991). Injections of Chemical Preparations to Stimulate Resin Production in Trees. *Lesnictvi (prague)* 37: 327-332.

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Injections of the Reglone preparation (diquat as active substance) to trees of Scotch pine (*Pinus sylvestris*) in 70 to 80 years old stands situated in Polabska Lowland (Czechoslovakia), increased three to six times the resin content in the stem part to the height of 6 m above ground. Resin production was more intensive in trees at a tise of higher fertility and in vigorously growing trees. The months of May to July are the best period to inject the trees. The highest amount of resin was recorded chemical was applied at a 20% concentration, by injections to two kerfs made on the opposite sides of stem and covering a third to stem circumference. Other preparations were also tested: Roundup (glyphosate as active substance), Basta glufosinate - ammonium as a. s.) and Garlon 4 (triclopyr as. a. s.); the latter is the only promising preparation (applied to a 20% concentration). Besides Scotch pine, there were no phytotoxic effects observed in black pine (*P. nigra*), white pine

MESH HEADINGS: BIOCHEMISTRY

MESH HEADINGS: METABOLISM

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANT GROWTH REGULATORS/PHARMACOLOGY

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT

MESH HEADINGS: PLANTS/DRUG EFFECTS

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/METABOLISM

November 2010 ECOTOX multi-ai papers

MESH HEADINGS: TREES
MESH HEADINGS: ENVIRONMENTAL POLLUTION
MESH HEADINGS: PLANT DISEASES
MESH HEADINGS: WEATHER
MESH HEADINGS: HERBICIDES
MESH HEADINGS: PEST CONTROL
MESH HEADINGS: PESTICIDES
MESH HEADINGS: PLANTS
KEYWORDS: Biochemical Studies-General
KEYWORDS: Metabolism-General Metabolism
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Forestry and Forest Products
KEYWORDS: Phytopathology-Nonparasitic Diseases
KEYWORDS: Pest Control
KEYWORDS: Coniferopsida cze

Gubbels, G. H., Bonner, D. M., and Kenaschuk, E. O. (1994). Use of Desiccants to Reduce Frost Damage in Immature Flax. *Canadian journal of plant science* 74: 121-123.

Chem Codes: Chemical of Concern: DQTBBr Code: BENEFICIAL EFFECT.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. The desiccants diquat, glufosinate-ammonium, dimethipin and glyphosate were applied to flax when 44-84% of the capsules were green to reduce damage from subsequent frost. Beginning 3 d after desiccant application, plant samples were taken at 2-4 d intervals and exposed to a temperature at -20°C overnight. **Diquat application gave the most promising results, reducing the proportion of discolored seed and sometimes reducing loss of germinability, while resulting in a small yield loss compared with freezing of untreated plants.**

MESH HEADINGS: CLIMATE
MESH HEADINGS: ECOLOGY
MESH HEADINGS: METEOROLOGICAL FACTORS
MESH HEADINGS: ECOLOGY
MESH HEADINGS: PLANTS
MESH HEADINGS: BODY WATER
MESH HEADINGS: BIOCHEMISTRY
MESH HEADINGS: MINERALS
MESH HEADINGS: COLD
MESH HEADINGS: FREEZING
MESH HEADINGS: PRESERVATION, BIOLOGICAL
MESH HEADINGS: BIOPHYSICS
MESH HEADINGS: PLANTS/METABOLISM
MESH HEADINGS: PLANTS/PHYSIOLOGY
MESH HEADINGS: WATER/METABOLISM
MESH HEADINGS: BIOPHYSICS
MESH HEADINGS: PLANTS/PHYSIOLOGY
MESH HEADINGS: PLANTS/METABOLISM
MESH HEADINGS: TEMPERATURE
MESH HEADINGS: BIOPHYSICS
MESH HEADINGS: PLANTS/PHYSIOLOGY
MESH HEADINGS: PLANTS/METABOLISM
MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT
MESH HEADINGS: BIOPHYSICS
MESH HEADINGS: PLANTS/PHYSIOLOGY
MESH HEADINGS: PLANTS/METABOLISM
MESH HEADINGS: PLANTS/ANATOMY & HISTOLOGY
MESH HEADINGS: REPRODUCTION
MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT

November 2010 ECOTOX multi-ai papers

MESH HEADINGS: SOIL
MESH HEADINGS: TEXTILES
MESH HEADINGS: ENVIRONMENTAL POLLUTION
MESH HEADINGS: PLANT DISEASES
MESH HEADINGS: WEATHER
MESH HEADINGS: PLANTS
KEYWORDS: Ecology
KEYWORDS: Ecology
KEYWORDS: Biochemistry-Physiological Water Studies (1970-)
KEYWORDS: Biochemical Studies-General
KEYWORDS: Biochemical Studies-Minerals
KEYWORDS: External Effects-Temperature as a Primary Variable-Cold (1971-)
KEYWORDS: Temperature: Its Measurement
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Plant Physiology
KEYWORDS: Agronomy-Fiber Crops
KEYWORDS: Phytopathology-Nonparasitic Diseases
KEYWORDS: Linaceae eng

Gutierrez, E., Arreguin, F., Huerto, R., and Saldana, P. (1994). Aquatic Weed Control. *International Journal of Water Resources Development [INT. J. WATER RESOUR. DEV.]*. Vol. 10, no. 3, pp. 291-312. 1994.
Chem Codes: Chemical of Concern: DQTB Code: REVIEW.

Descriptors: Article Subject Terms: biological control
Descriptors: chemical control
Descriptors: chemical oxygen demand
Descriptors: environment management
Descriptors: freshwater weeds
Descriptors: hydrogen ion concentration
Descriptors: pesticides
Descriptors: phosphorus
Descriptors: plant control
Descriptors: reservoirs
Descriptors: water hyacinth
Descriptors: weed control
Descriptors: Article Taxonomic Terms: Eichhornia crassipes
Descriptors: Article Geographic Terms: Mexico

Abstract: A general discussion is provided of the water hyacinth (*Eichhornia crassipes*) which may become a weed as a result of its uncontrolled reproduction, and of the five main control methods. The Mexican Aquatic Weed Control Program (PROCMA) is described, including its goals and guidelines. Information is given concerning COD, DO, pesticide residues, pH, conductivity and total phosphorus resulting from the use of 2,4-D, diquat and glyphosate in three dams infested with water hyacinth and cat-tail.

Publication Type: Journal Article
Environmental Regime: Freshwater
Classification: SW 2010 Control of water on the surface
Classification: Q5 01523 Conservation, wildlife management and recreation
Classification: Q1 01485 Species interactions: pests and control
Subfile: ASFA 1: Biological Sciences & Living Resources; ASFA 3: Aquatic Pollution & Environmental Quality; Water Resources Abstracts English. English

Henning-de Jong, Irmgard, van Zelm, Rosalie, Huijbregts, Mark A. J., de Zwart, Dick, van der Linden, Ton M. A., Wintersen, Arjen, Posthuma, Leo, and van de Meent, Dik (2008). Ranking of agricultural pesticides in the Rhine-Meuse-Scheldt basin based on toxic pressure in marine ecosystems. *Environ. Toxicol. Chem.* 27: 737-745.

Chem Codes: Chemical of Concern: DQTB Code: MODELING.

Although risk assessments on a per chem. basis are required for pesticide registration, cumulative risks from using any pesticide on the variety of crops in a river catchment area are not assessed. This work **ranked pesticides used in outdoor agricultural practices within the Rhine, Meuse, and Scheldt rivers catchment** according to their potential toxic impact on the North Sea coastal ecosystem. **Toxic pressure calcns. (based on steady-state concns. calcd. with a multi-media fate model)** and species sensitivity distribution-based risk estns. were performed for pesticide emissions in the years 1998 (189 pesticides) and 2004 (133 pesticides). A ranking was established according to the relative contribution of single pesticides and crop types to overall toxic pressure. Calcns. were performed probabilistically to deal with parameter uncertainties. Only a few pesticides and crop types dominated overall toxic pressure due to emissions in both years; uncertainty appears to be caused largely by uncertainty in inter-species aquatic toxicity variances. For 1998, these pesticides were fentin-acetate, with a median relative contribution (RCx) to toxic pressure of multiple chems. on an ecosystem of 0.43. For 2004, the pesticides which contributed most were pencycuron and paraquat-dichloride, with a median RCx of 4.4×10^{-2} and 3.9×10^{-2} , resp. Pesticides applied to potato cropland and fruit trees contributed most to overall toxic pressure. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2008:256619

Chemical Abstracts Number: CAN 148:314253

Section Code: 61-2

Section Title: Water

CA Section Cross-References: 4, 5, 11, 59

Document Type: Journal

Language: written in English.

Index Terms: Pesticides (agricultural; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Quaternary ammonium compounds Role: ADV (Adverse effect, including toxicity), OCU (Occurrence, unclassified), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (alkylbenzyl dimethyl, chlorides; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Crop (open canopy-type; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Toxicity (pesticide-induced; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Allium porrum; Cereal; Flower; Fruit tree; Leek; Potato; Risk assessment; Simulation and Modeling; Solanum tuberosum (probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Pyrethrins Role: ADV (Adverse effect, including toxicity), OCU (Occurrence, unclassified), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); Water pollution (river water and coastal seawater; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004)

CAS Registry Numbers: 91465-08-6 Role: ADV (Adverse effect, including toxicity), OCU (Occurrence, unclassified), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (lambda-Cyhalothrin; probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004); 50-00-0 (Formaldehyde); 56-38-2 (Parathion-ethyl); 58-89-9 (Lindane); 60-51-5 (Dimethoate); 62-73-7 (Dichlorvos); 63-25-2 (Carbaryl); 76-87-9 (Fentin hydroxide); 85-00-7 (Diquat dibromide); 86-50-0 (Azinphos-methyl); 86-87-3 (1-Naphthaleneacetic acid); 94-74-6 (MCPA); 94-75-7 (2,4-D); 97-17-6 (Dichlofenthion); 99-30-9 (Dichloran); 101-21-3 (Chlorpropham); 108-62-3 (Metaldehyde); 108-95-2 (Phenol); 114-26-1 (Propoxur); 116-06-3 (Aldicarb); 121-75-5 (Malathion); 122-14-5 (Fenitrothion); 122-34-9 (Simazine); 122-42-9 (Propham); 123-33-1 (Maleic hydrazide); 133-06-2 (Captan); 133-07-3

(Folpet); 133-32-4 (Indole-3-butyric acid); 137-26-8 (Thiram); 137-30-4 (Ziram); 148-79-8 (Thiabendazole); 330-54-1 (Diuron); 330-55-2 (Linuron); 333-41-5 (Diazinon); 470-90-6 (Chlorfenvinfos); 534-52-1 (DNOC); 640-15-3 (Thiometon); 759-94-4 (EPTC); 886-50-0 (Terbutryn); 900-95-8 (Fentin acetate); 950-37-8 (Methidathion); 999-81-5 (Chlormequat chloride); 1014-69-3 (Desmetryn); 1071-83-6 (Glyphosate); 1113-02-6 (Omethoate); 1319-77-3 (Cresol); 1420-07-1 (Dinoterb); 1563-66-2 (Carbofuran); 1593-77-7 (Dodemorph); 1596-84-5 (Daminozide); 1689-83-4 (Ioxynil); 1689-84-5 (Bromoxynil); 1698-60-8 (Chloridazon); 1702-17-6 (Clopyralid); 1746-81-2 (Monolinuron); 1897-45-6; 1910-42-5 (Paraquat-dichloride); 1912-24-9 (Atrazine); 1918-00-9 (Dicamba); 1918-16-7 (Propachlor); 2032-65-7 (Methiocarb); 2164-08-1 (Lenacil); 2227-17-0 (Dienochlor); 2275-23-2 (Vamidothion); 2303-17-5 (Triallate); 2310-17-0 (Phosalone); 2439-10-3 (Dodine); 2921-88-2 (Chlorpyrifos); 3060-89-7 (Metobromuron); 3337-71-1 (Asulam); 3347-22-6 (Dithianon); 3691-35-8 (Chlorophacinone); 3810-74-0 (Streptomycin sulfate); 5915-41-3 (Terbutylazine); 6980-18-3 (Kasugamycin); 7173-51-5 (Didecyldimethyl ammonium chloride); 7287-19-6 (Prometryn); 7786-34-7 (Mevinphos); 8018-01-7 (Mancozeb); 9006-42-2 (Metiram); 10004-44-1 (Hymexazol); 10552-74-6 (Nitrothal-isopropyl); 12122-67-7 (Zineb); 12427-38-2 (Maneb); 13121-70-5 (Cyhexatin); 13171-21-6 (Phosphamidon); 13194-48-4 (Ethoprophos); 13356-08-6 (Fenbutatin oxide); 13360-45-7 (Chlorbromuron); 13457-18-6 (Pyrazophos); 13684-56-5 (Desmedipham); 13684-63-4 (Phenmedipham); 15545-48-9 (Chlortoluron); 16118-49-3 (Carbetamide); 16484-77-8 (Mecoprop-P); 16672-87-0 (Ethefon); 16752-77-5 (Methomyl); 17804-35-2 (Benomyl); 18181-80-1 (Bromopropylate); 19937-59-8 (Metoxuron); 20427-59-2 (Copper hydroxide); 21087-64-9 (Metribuzin); 22224-92-6 (Fenamiphos); 23103-98-2 (Pirimicarb); 23135-22-0 (Oxamyl); 23560-59-0 (Heptenophos); 23564-05-8 (Thiophanate-methyl); 23950-58-5 (Propyzamide); 24017-47-8 (Triazofos); 25057-89-0 (Bentazon); 25059-80-7 (Benazolin-ethyl); 25606-41-1 (Propamocarb hydrochloride); 26225-79-6 (Ethofumesate); 26644-46-2 (Triforine); 28772-56-7 (Bromadiolone); 29232-93-7 (Pirimiphos-methyl); 30560-19-1 (Acephate); 34123-59-6 (Isoproturon); 34681-10-2 (Butocarboxim); 35367-38-5 (Diflubenzuron); 35554-44-0 (Imazalil); 35575-96-3 (Azamethiphos); 36734-19-7 (Iprodione); 38260-54-7 (Etrifos); 39148-24-8; 39515-41-8 (Fenpropathrin); 40487-42-1 (Pendimethalin); 41083-11-8 (Azocyclotin); 41394-05-2 (Metamitron); 41483-43-6 (Bupirimate); 42576-02-3 (Bifenox); 50471-44-8 (Vinclozolin); 50642-14-3 (Validamycin); 51249-05-9 (Buminafos); 52645-53-1 (Permethrin); 52888-80-9 (Prosulfocarb); 52918-63-5 (Deltamethrin); 55179-31-2 (Bitertanol); 55219-65-3 (Triadimenol); 55335-06-3 (Triclopyr); 55512-33-9 (Pyridate); 56073-10-0 (Brodifacoum); 57018-04-9 (Tolclofos-methyl); 57646-30-7 (Furalaxyl); 57837-19-1 (Metalaxyl); 57966-95-7 (Cymoxanil); 59669-26-0 (Thiodicarb); 60168-88-9 (Fenarimol); 60207-31-0 (Azaconazole); 60207-90-1 (Propiconazole); 66063-05-6 (Pencycuron); 66215-27-8 (Cyromazine); 66230-04-4 (Esfenvalerate); 66246-88-6 (Penconazole); 66332-96-5 (Flutolanil); 67129-08-2 (Metazachlor); 67564-91-4 (Fenpropimorph); 67747-09-5 (Prochloraz); 68359-37-5 (Cyfluthrin); 68694-11-1 (Triflumizole); 69327-76-0 (Buprofezin); 69377-81-7 (Fluroxypyr); 71283-80-2; 71751-41-2 (Abamectin); 72490-01-8 (Fenoxycarb); 74051-80-2 (Sethoxydim); 74115-24-5 (Clofentezine); 74223-64-6 (Metsulfuron-methyl); 77182-82-2 (Glufosinate-ammonium); 79622-59-6 (Fluazinam); 81405-85-8 (Imazamethabenz-methyl); 82560-54-1 (Benfuracarb); 83121-18-0 (Teflubenzuron); 83164-33-4 (Diflufenican); 87130-20-9 (Diethofencarb); 88283-41-4 (Pyrifenoxy); 94361-06-5 (Cyproconazole); 95266-40-3 (Trinexapac-ethyl); 96489-71-3 (Pyridaben); 101205-02-1 (Cycloxydim); 104653-34-1 (Difethialone); 107534-96-3 (Tebuconazole); 110488-70-5 (Dimethomorph); 116255-48-2 (Bromuconazole); 119446-68-3 (Difenoconazole); 122931-48-0 (Rimsulfuron); 133855-98-8 (Epoxiconazole) Role: ADV (Adverse effect, including toxicity), OCU (Occurrence, unclassified), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (probabilistic calcd. ranking of open canopy agricultural crop type and pesticides based on toxic pressure to coastal North Sea ecosystem in Rhine-Meuse-Scheldt river catchment, Netherlands, 1998 and 2004)

Citations: 1) The Council Of The European Union; Official Journal of the European Communities 1991, 230, 1

Citations: 2) de Zwart, D; Integr Environ Assess Manag 2005, 1, 123

Citations: 3) Harbers, J; Environ Sci Technol 2006, 40, 1573

Citations: 4) Solomon, K; Crop Prot 2000, 19, 649

Citations: 5) van de Meent, D; Environ Toxicol Chem 2005, 24, 1573

Citations: 6) de Zwart, D; Environ Toxicol Chem 2005, 24, 2665

Citations: 7) de Zwart, D; Species Sensitivity Distributions in Ecotoxicology 2002, 133

Citations: 8) Aldenberg, T; Ecotoxicol Environ Saf 1993, 25, 48

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Citations: 9) Posthuma, L; Species Sensitivity Distributions in Ecotoxicology 2002, 3
Citations: 10) Aldenberg, T; Ecotoxicol Environ Saf 2000, 46, 1
Citations: 11) Konemann, H; Toxicology 1981, 19, 229
Citations: 12) Klepper, O; J Hazard Mater 1998, 61, 337
Citations: 13) Wolters-Noordhoff, B; De Grote Bosatlas 2001
Citations: 14) van der Linden, A; Report 716601009 2004
Citations: 15) Den Hollander, H; Report 601200003 2004
Citations: 16) Hollander, A; SAR QSAR Environ Res 2004, 15, 457
Citations: 17) U S Environmental Protection Agency; Estimation Programs Interface (EPI) Suite, Ver 3.12 2000
Citations: 18) U S Environmental Protection Agency; Assessment Tools for the Evaluation of Risk Software program 2004
Citations: 19) Jager, T; Report 679102048 1998
Citations: 20) Bennett, D; Environ Sci Technol 2001, 35, 1181
Citations: 21) Slob, W; Risk Anal 1994, 14, 571
Citations: 22) Macleod, M; Environ Toxicol Chem 2002, 21, 700
Citations: 23) Hertwich, E; Risk Anal 1999, 19, 1193
Citations: 24) Jager, T; Chemosphere 2001, 43, 257
Citations: 25) Decisioneering; Crystal Ball, Ver 7.1.2 2005
Citations: 26) Roelofs, W; Environ Toxicol Chem 2003, 22, 1387
Citations: 27) van Zelm, R; Integr Environ Assess Manag 2007, 3, 203
Citations: 28) van Straalen, N; Water Air Soil Pollut 1999, 115, 71
Citations: 29) Rudel, H; Ecotoxicol Environ Saf 2003, 56, 180
Citations: 30) Hollander, A; Hydrobiologica 2006, 565, 21
Citations: 31) Crommentuijn, T; Report 601501002 1997 ETOCDK 0730-7268 agricultural/ pesticide/ ranking/ marine/ ecosystem/ toxic/ pressure/ Netherlands/ Rhine/ Meuse/ Scheldt/ river/ basin/ agricultural/ pesticide/ toxicity/ ranking/ risk/ assessment/ agricultural/ pesticide/ coastal/ seawater/ toxicity/ Netherlands

Kossuth, Susan V. (1984). Biomass chemicals: Improvement in quality and quantity with physiological regulators. 6: 47-59.

Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL,REVIEW.

Abstract: The search for alternative biomass energy forms has centered on two approaches: (1) production of cellulose fiber in biomass of low net energy value per unit weight, such as wood and bagasse, and (2) hydrocarbons of high net energy value per unit weight for use as chemical feedstocks and substitutes for petroleum. Major plant chemical products include oleoresin from pine (*Pinus elliottii* Engelm., *P. palustris* Mill.), rubber from the rubber tree (*Hevea brasiliensis* Muell.), and guayule shrub (*Parthenium argentatum* Gray) and sugar from sugarcane (*Saccharum* spp.). Genetic selections with lower natural yields tend to respond the most to bioregulators, and yields after treatment may equal those of the best selections also receiving the treatment. Ethylene may be a unifying natural bioregulator that can increase deposition of biomass chemicals in all four of these systems. The underlying success of the bioregulators is that assimilates are partitioned into extractives and sugar instead of vegetative growth. **Examples include the use of paraquat, diquat, and 2-chloroethylphosphonic acid (CEPA) for stimulating the synthesis of oleoresin,** CEPA for prolonging the flow of rubber and increasing rubber synthesis in the rubber tree, and triethylamines of chlorinated phenoxy compounds for stimulating rubber production in guayule. In sugarcane, gibberellic acid (GA3) increases internodal elongation. Glyphosate, CEPA and other regulators increase the deposition of sucrose, diquat and CEPA inhibit flowering, and paraquat desiccates leaves just prior to harvest to facilitate leaf removal or burning just prior to harvest. The cellular compartmentalization for the synthesis of these plant chemicals is unique for each species, and dictates cultural and harvest techniques. Oleoresin is produced in the epithelial cells of resin canals and parenchyma of rays. Hevea rubber is produced in articulated laticifers. Hevea rubber and pine oleoresin are obtained by stripping away bark at various intervals during the year. The main source of guayule rubber is bark parenchyma and it is obtained by grinding the shrub, and coagulating and extracting the rubber. Sucrose is synthesized in the cytosol, stored in plastids and obtained by harvesting the cane and crushing it. The mode of action and pathways for the success of these physiological regulators are discussed 0144-4565 *Pinus/ Hevea/ Parthenium/ Saccharum/ oleoresin/ Ethylene/ Paraquat/ Gibberellic acid/ triethylamine/ Hormone*

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Manabe, K., Deguchi, H., Miki, M., Yabuki, H., and Itoh, M. (1990). Chemical Control of Weeds in Orchard: Comparison of Postemergence Herbicides in Activity and Their Practical Application. *Kagawa daigaku nogakubu gakujutsu hokoku* 42: 123-130.

Chem Codes: Chemical of Concern: DQTBr Code: NON-ENGLISH.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. Weed vegetation in orchards was investigated at the farm of Kagawa University, and the activities of 4 commercial postemergence herbicides in spring and summer were observed on major nine weeds in orchards. 1. Considerable change in weed species between spring and summer was observed in the same orchard. The change in weed species was independent of light conditions in orchards. No correlation was observed between tree crops and weed species. 2. Grass weeds, perennial weeds and *Acalypha australis* showed significant regrowth with any treatments except glyphosate, while no regrowth of winter annual broadleaf weeds and *commelina communis* was observed with any treatments of herbicides. The mixture of paraquat* diquate showed the highest quick burndown activity among 4 herbicides, but this mixture had short term control of grass and perennial weeds and *A. australis*. Glyphosphate provided long term control of all weeds except *C. communis* without quick burndown activity. Gl

MESH HEADINGS: CLIMATE

MESH HEADINGS: ECOLOGY

MESH HEADINGS: METEOROLOGICAL FACTORS

MESH HEADINGS: BIOCHEMISTRY

MESH HEADINGS: COMPARATIVE STUDY

MESH HEADINGS: BIOCHEMISTRY

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/PHYSIOLOGY

MESH HEADINGS: PLANTS/METABOLISM

MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT

MESH HEADINGS: GRASSES/GROWTH & DEVELOPMENT

MESH HEADINGS: SOIL

MESH HEADINGS: CLIMATE

MESH HEADINGS: FRUIT

MESH HEADINGS: NUTS

MESH HEADINGS: HERBICIDES

MESH HEADINGS: PEST CONTROL

MESH HEADINGS: PESTICIDES

MESH HEADINGS: PLANTS

MESH HEADINGS: GRASSES

MESH HEADINGS: PLANTS

KEYWORDS: Ecology

KEYWORDS: Comparative Biochemistry

KEYWORDS: Biochemical Studies-General

KEYWORDS: Plant Physiology

KEYWORDS: Agronomy-Weed Control

KEYWORDS: Horticulture-Temperate Zone Fruits and Nuts

KEYWORDS: Pest Control

KEYWORDS: Commelinaceae

KEYWORDS: Gramineae

KEYWORDS: Euphorbiaceae jpn

Masuda, S., Deguchi, Y., Masuda, Y., Watanabe, T., Nukaya, H., Terao, Y., Takamura, T., Wakabayashi, K., and Kinae, N. (2004-). Genotoxicity of 2-[2-(Acetylamino)-4-[bis(2-Hydroxyethyl)Amino]-5-Methoxyphenyl]-5-Amino-7-Bromo-4-Chloro-2H-Benzotriazole (PBTA-6) and 4-Amino-3,3'-Dichloro-5,4'-Dinitro-Biphenyl (ADDB) in Goldfish (*Carassius auratus*) Using the Micronucleus Test and the Comet Assay. *Mutat.Res.* 560: 33-40.

Chemical of Concern: DQTBr; Habitat: A

November 2010 ECOTOX multi-ai papers

Masuda, S., Deguchi, Y., Masuda, Y., Watanabe, T., Nukaya, H., Terao, Y., Takamura, T., Wakabayashi, K., and Kinae, N. (2004-). Genotoxicity of 2-[2-(Acetylamino)-4-[bis(2-Hydroxyethyl)Amino]-5-Methoxyphenyl]-5-Amino-7-Bromo-4-Chloro-2H-Benzotriazole (PBTA-6) and 4-Amino-3,3'-Dichloro-5,4'-Dinitro-Biphenyl (ADDDB) in Goldfish (*Carassius auratus*) Using the Micronucleus Test and the Comet Assay. *Mutat.Res.* 560: 33-40.

Chemical of Concern: DQTBBr; Habitat: A

Monteiro, A., Moreira, I., Barrett, P. R. F., Greaves, M. P., Murphy, K. J., Pieterse, A. H., Wade, P. M., and Wallsten, M. (eds) (1990). Chemical Control of Parrotfeather (*Myriophyllum Aquaticum*). *Proceedings of the 8th international symposium on aquatic weeds, Uppsala, Sweden, 13-17 August 1990*, 163-164. 163-164.
Chem Codes: Chemical of Concern: DQTBBr Code: ABSTRACT.

Descriptors: Article Subject Terms: **aquatic plants**

Descriptors: chemical control

Descriptors: environment management

Descriptors: freshwater weeds

Descriptors: herbicides

Descriptors: plant control

Descriptors: Article Taxonomic Terms: *Myriophyllum aquaticum*

Abstract: The findings are presented of experiments conducted using different applications of various herbicides (**diquat**, 2,4-D amine, gluphosinate ammonium and glyphosate) to control *Myriophyllum aquaticum* .

Publication Type: Book Monograph

Publication Type: Conference

Environmental Regime: Freshwater

Classification: Q1 01485 Species interactions: pests and control

Classification: Q5 01523 Conservation, wildlife management and recreation

Subfile: ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 1: Biological Sciences & Living Resources English

Murphy, K. J., Barrett, P. R. F., Greaves, M. P. , Murphy, K. J., Pieterse, A. H., Wade, P. M., and Wallsten, M. (eds) (1990). Aquatic Weeds in Scotland.

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

Descriptors: Article Subject Terms: aquatic plants

Descriptors: biological control

Descriptors: chemical control

Descriptors: environment management

Descriptors: fouling organisms

Descriptors: freshwater weeds

Descriptors: herbicides

Descriptors: plant control

Descriptors: Article Taxonomic Terms: *Ctenopharyngodon idella*

Descriptors: Tracheophyta

Abstract: A brief account is given of the findings of a survey conducted of problems caused by aquatic weed growth in Scottish freshwaters and approaches to management of these problems. Standing waters, such as lochs and reservoirs, were found to be most prone to problems; the survey showed that aquatic weed problems in Scotland are either more or less constant or are increasing. Submerged macrophytes were the primary cause of aquatic weed problems, closely followed by emergent weeds and filamentous algae. Control of aquatic weeds relies principally on physical clearance measures; herbicides most frequently used for chemical control purposes include glyphosate and diquat. The only biological control measure currently in use for aquatic weed management in Scotland is the grass carp (*Ctenopharyngodon idella*).

Conference: 8. Int. Symp. on Aquatic Weeds, Uppsala (Sweden), 13-17 Aug 1990

Publication Type: Book Monograph

Publication Type: Conference

November 2010 ECOTOX multi-ai papers

Environmental Regime: Freshwater

Classification: Q1 01485 Species interactions: pests and control

Classification: Q5 01523 Conservation, wildlife management and recreation

Subfile: ASFA 3: Aquatic Pollution & Environmental Quality; ASFA 1: Biological Sciences & Living Resources English

Severa, Lukás, Adriaenssens, Louis, Vávra, Jan, Saman, David, Císarová, Ivana, Fiedler, Pavel, and Teplý, Filip (2010-). Highly modular assembly of cationic helical scaffolds: rapid synthesis of diverse helquats via differential quaternization. *Tetrahedron* 66: 3537-3552.

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

Keywords: Diynes and triynes

Keywords: Extended diquat

Keywords: Helical dication

Keywords: Helicene-viologen hybrid

Keywords: Helquat

Keywords: N-heteroaromatic cation

Keywords: Nitrogen

Keywords: Rhodium

Keywords: Selectivity

Keywords: Step economy

Keywords: Successive N-quaternizations

Keywords: Synthesis

Keywords: Triyne cycloisomerization

Keywords: Wilkinson's catalyst

Keywords: [2+2+2] Cycloaddition

Abstract: A protocol for rapid and highly modular assembly of a diverse set of helquats is described. From a common bis-isoquinoline precursor, two successive distinct pyridine-type nitrogen quaternizations followed by rhodium-catalyzed [2+2+2] cycloaddition afford non-symmetric [7]helquats. This route allows for straightforward molecular editing of cationic helical skeletons as exemplified by the synthesis of 15 different [5]-, [6]-, and [7]helquats

<http://www.sciencedirect.com/science/article/B6THR-4YJ6G9G-2/2/4625041a78f84cbf618c184828e08aae0040-4020>

Severa, Lukás, Adriaenssens, Louis, Vávra, Jan, Saman, David, Císarová, Ivana, Fiedler, Pavel, and Teplý, Filip (2010-). Highly modular assembly of cationic helical scaffolds: rapid synthesis of diverse helquats via differential quaternization. *Tetrahedron* 66: 3537-3552.

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

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Keywords: Extended diquat

Keywords: Helical dication

Keywords: Helicene-viologen hybrid

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Keywords: Nitrogen

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Keywords: Synthesis

Keywords: Triyne cycloisomerization

Keywords: Wilkinson's catalyst

Keywords: [2+2+2] Cycloaddition

Abstract: A protocol for rapid and highly modular assembly of a diverse set of helquats is described. From a common bis-isoquinoline precursor, two successive distinct pyridine-type nitrogen quaternizations followed

by rhodium-catalyzed [2+2+2] cycloaddition afford non-symmetric [7]helquats. This route allows for straightforward molecular editing of cationic helical skeletons as exemplified by the synthesis of 15 different [5]-, [6]-, and [7]helquats
<http://www.sciencedirect.com/science/article/B6THR-4YJ6G9G-2/2/4625041a78f84cbf618c184828e08aae0040-4020>

Simpson, M. Ja (1993). Comparison of **Swathing** and **Desiccation** of Borage (*Borago Officinalis*) and Estimation of Optimum Harvest Stage. *Annals of applied biology* 123: 105-108.
Chem Codes: Chemical of Concern: DQTBr Code: BENEFICIAL EFFECT.

ABSTRACT: BIOSIS COPYRIGHT: BIOL ABS. In trials of borage (*Borago officinalis* L.) between 1988 and 1991, swathing resulted in substantially **higher yields than desiccation with diquat or glyphosate**. Earlier harvest resulted in slightly lower seed oil content. Optimum swathing stage for uniform crops was estimated as that in which youngest flowers on apical cymes with shed or mature seed were the first to the third from the cyme base (i.e. stage 5.1 to 5.3). In crops with low plant population density, in which production of lowest branches is not suppressed, assessment of swathing stage is likely to be difficult and may require sampling from lower cymes. MH - BIOCHEMISTRY

MESH HEADINGS: BIOPHYSICS

MESH HEADINGS: PLANTS/CHEMISTRY

MESH HEADINGS: PLANTS/GROWTH & DEVELOPMENT

MESH HEADINGS: SOIL

MESH HEADINGS: PHARMACOGNOSY

MESH HEADINGS: PLANTS, MEDICINAL

MESH HEADINGS: HERBICIDES

MESH HEADINGS: PEST CONTROL

MESH HEADINGS: PESTICIDES

MESH HEADINGS: PLANTS

KEYWORDS: Biochemical Studies-General

KEYWORDS: Plant Physiology

KEYWORDS: Agronomy-General

KEYWORDS: Pharmacognosy and Pharmaceutical Botany

KEYWORDS: Pest Control

KEYWORDS: Boraginaceae eng

Stenrod, Marianne, Heggen, Heidi E., Bolli, Randi I., and Eklo, Ole Martin (2008). Testing and comparison of three pesticide risk indicator models under Norwegian conditions - A case study in the Skuterud and Heiabekken catchments. *Agric., Ecosyst. Environ.* 123: 15-29.
Chem Codes: Chemical of Concern: DQTBr Code: MODELING.

In recent years, there has been an increased concern for the risk of non-target impacts of pesticides. It has been widely acknowledged that wt. and vol. measures are not adequate proxies for assessing this risk, and many pesticide risk indicator models have been developed and are in use throughout the world. They all have their strengths and weaknesses, and here we have **evaluated the Norwegian Environmental Risk Indicator (NERI) in relation to the Environmental Impact Quotient (EIQ), both models weighting potential effects on the environment in relation to risk of exposure, and the leaching model Surface Water Attenuation (SWAT)**. We have utilized reported use of pesticides within two catchments in Norway to be able to compare the model outputs under realistic pest management regimes. In general, the NERI-model gives much wt. to substances of long persistence **in soil and/or high risk of bioaccumulation**, while the EIQ-model risk ests. are largely governed by amt. of pesticide used. As the general focus when considering pesticide use and the environment has shifted from purely focusing on reducing amts. to risk redn., the NERI-model might deliver a more up-to-date output with the more toxic and persistent compds. dominating. However, the absence of mobile pesticides like MCPA from the top of the ranking raises some concern, and points out some of the lacks in such simple models when it comes to use for farmer guidance. They do not include any site specific data on soil characteristics and weather conditions, factors of great importance for pesticide leaching and, hence, governing the risk of exposure. The SWAT-model focuses on the risk of exposure due to leaching, and does not include an effect factor (e.g. **toxicity to terrestrial and**

aquatic organisms). However, for the purpose of farmer guidance, presentations of leaching risk of individual pesticides based on pre-simulated model results under some representative environmental conditions, give the opportunity for an initial screening of the more suitable pesticides regarding risk of exposure. [on SciFinder (R)] Copyright: Copyright (C) 2009 ACS on SciFinder (R))

Database: CAPLUS

Accession Number: AN 2007:1223092

Chemical Abstracts Number: CAN 149:193187

Section Code: 4-4

Section Title: Toxicology

Document Type: Journal

Language: written in English.

Index Terms: Bioaccumulation; Environmental pollution; Leaching; Pesticides; Risk assessment; Simulation and Modeling; Soil pollution; Surface waters; Toxicity; Water pollution (testing and comparison of three pesticide risk indicator models under Norwegian conditions)

CAS Registry Numbers: 85-00-7 (Diquat dibromide); 94-74-6 (MCPA); 999-81-5 (Chlormequat chloride); 1071-83-6 (Glyphosate); 1689-83-4 (Ioxynil); 8018-01-7 (Mancozeb); 15165-67-0 (Dichlorprop-p); 15302-91-7 (Mepiquat); 16672-87-0 (Ethefon); 21087-64-9 (Metribuzin); 24579-73-5 (Propamocarb); 34123-59-6 (Isoproturon); 60207-90-1 (Propiconazole); 64902-72-3 (Chlorsulfuron); 67375-30-8

(Alpha-cypermethrin); 67564-91-4 (Fenpropimorph); 67747-09-5 (Prochloraz); 74223-64-6 (Metsulfuron-methyl); 94361-06-5 (Cyproconazole); 95266-40-3 (Trinexapac-ethyl); 101200-48-0

(Tribenuron-methyl); 121552-61-2 (Cyprodinil); 131860-33-8 (Azoxystrobin); 141517-21-7 (Trifloxystrobin); 143390-89-0 (Kresoxim-methyl); 185119-76-0 (Iodosulfuron) Role: ADV (Adverse effect, including toxicity), BSU (Biological study, unclassified), POL (Pollutant), BIOL (Biological study), OCCU (Occurrence) (testing and comparison of three pesticide risk indicator models under Norwegian conditions)

Citations: Bending, G; Biol Fertil Soils 2001, 33, 484

Citations: Boorman, D; IH Report No 126 1995

Citations: Brown, C; Pestic Sci 1996, 47, 41

Citations: Brown, C; Pest Manag Sci 2002, 58, 363

Citations: Deelstra, J; Jordforsk Report 61/05 2005

Citations: Dushoff, J; Am Entomol Fall 1994, 3, 180

Citations: Ecpa; ECPA Position Paper 1995

Citations: Eklo, O; Proceedings Biological Control of Crop Pests, Vietnamese Norwegian Workshop, Gronn Forskning 2002, 13, 111

Citations: Eklo, O; Proceedings Biological Control and Integrated Pest Management, Gronn kunnskap 2003, 7(17), 149

Citations: Flury, M; J Environ Qual 1996, 25, 25

Citations: Ganzelmeier, H; Studies on the spray drift of plant protection products Mitteilungen aus der Biologischen Bundesanstalt fur Land-und Forstwirtschaft 1995

Citations: Goss, D; Pesticides in the Next Decade:the Challenge Ahead 1990, 471

Citations: Hart, A; OECD Workshop on Pesticide Risk Indicators 1997, 30

Citations: Hollis, J; Proceedings of the X Symposium of Pesticide Chemistry, La Gioliardica Pavese 1996, 371

Citations: Hotchkiss, B; EXTOKNET, Extension Toxicology Network 1989

Citations: Kovach, J; New York's Food and Life Sciences Bulletin 1992, 139, 1

Citations: Kovach, J; http://nysipm.cornell.edu/publications/eiq/files/EIQ_values04.pdf 2003

Citations: Laplana, R; Final Report AgriBMPWater project 2004

Citations: Leonard, R; ASAE 1987, 30, 1403

Citations: Levitan, L; OECD Workshop on Pesticide Risk Indicators 1997, 89

Citations: Lindahl, A; J Environ Qual 2005, 34, 1174

Citations: Ludvigsen, G; Int J Environ Anal Chem 2002, 82, 631

Citations: Ludvigsen, G; Jordforsk Report 97/05,
<http://www.bioforsk.no/dok/senter/jordmil/aas/jova/97-05.pdf> 2005, 53

Citations: Ludvigsen, G; Jordforsk Report 102/05,
<http://www.bioforsk.no/dok/senter/jordmil/aas/jova/102-05.pdf> 2005, 97

Citations: Morse, R; The New York State Pesticide Recommendations 1989 edition 1989, 28

November 2010 ECOTOX multi-ai papers

Citations: Perceval, J; Master Thesis, Universite Henri Poincare de Nancy 2004, 33
Citations: Reus, J; Comparing environmental risk indicators for pesticides Results of the European CAPER project 1999, 184
Citations: Reus, J; Agric Ecosys Environ 2002, 90, 177
Citations: Smith, W; Chem-News Profiles, Pesticide Management and Education Program, CENET, Cornell Cooperative Extension Electronic Information Network 1992
Citations: Spikkerud, E; Technical Report of the OECD Project on Pesticide Aquatic Risk Indicators, <http://www.oecd.org/dataoecd/6/17/2752913.pdf> 2002
Citations: Spikkerud, E; <http://www.mattilsynet.no/planter/plantevernmidler/avgiftssystemet> 2005, 14
Citations: Stenrod, M; Soil Biol Biochem 2006, 38, 962
Citations: Stenrod, M; Pest Manag Sci 2005, 61, 887
Citations: Theiling, K; Agric Ecosyst Environ 1988, 21, 191
Citations: Tomlin, C; e-Pesticide Manual 2.2 12th ed 2002
Citations: Turpin, N; Environ Modell Softw 2005, 20, 187
Citations: Us Environmental Protection Agency; http://www.epa.gov/oppefedl/models/water/scigrow_description.htm 2001
Citations: Walker, A; Weed Res 2002, 42, 39
Citations: Wauchope, R; J Environ Qual 1978, 7, 459 AEENDO 0167-8809 risk/ indicator/ model/ catchment/ pesticide