

## APPENDIX C

### Bibliography of ECOTOX Open Literature

With the exception of ECOTOX Study No. E35428, which was used qualitatively in the assessment, no study endpoints from the ECOTOX open literature references were selected for use in the risk assessment document for strychnine. The following points summarize the reasons why no endpoints were selected from the open literature.

- The study had endpoints that were higher than those used from the studies submitted to the Agency
- The study was an efficacy-type study with no endpoints.
- Some study endpoints were not relevant for assessment of risk to the CRLF, CTS or the SJKF (*e.g.*, marine/estuarine endpoints).

The following is an explanation of the acceptability criteria and rejection codes used for the ECOTOX papers. The ECOTOX bibliography follows the acceptability criteria and rejection code discussion. Citations for papers that are acceptable to both ECOTOX and OPP are presented first, followed by citations for papers that are acceptable for ECOTOX but not OPP. Citations for excluded papers are presented at the end of this Appendix.

#### 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.

## Strychnine Papers that Were Accepted for ECOTOX

### Acceptable to EcoTox and OPP

Apa, A. D., Uresk, D. W., and Linder, R. L. (1990). Black-Tailed Prairie Dog Populations One Year After Treatment with Rodenticides. *Great Basin Nat.* 50: 107-113.

EcoReference No.: 75416

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

Apa, A. D., Uresk, D. W., and Linder, R. L. (1991). Impacts of Black-Tailed Prairie Dog Rodenticides on Nontarget Passerines. *Great Basin Nat.* 51: 301-309.

EcoReference No.: 75401

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

Blades, D. and Mitchell, B. K. (1986). Effect of Alkaloids on Feeding by *Phormia regina*. *Entomol.Exp.Appl.* 41: 299-304.

EcoReference No.: 110210

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

Breslin, W. J. (1984). Photoperiodic Effects on the Avian Dietary LC50 with Bobwhite (*Colinus virginianus*) and Mallards (*Anas platyrhynchos*). *M.S.Thesis, Michigan State University* 82 p.

EcoReference No.: 35056

Chemical of Concern: STCH; Habitat: T; Rejection Code: LITE EVAL CODED(STCH).

Carlson, R. W., Bradbury, S. P., Drummond, R. A., and Hammermeister, D. E. (1998). Neurological Effects on Startle Response and Escape from Predation by Medaka Exposed to Organic Chemicals. *Aquat.Toxicol.* 43: 51-68.

EcoReference No.: 20097

Chemical of Concern: NP,ES,CBL,24DXY,STCH,PL,C8OH,CPY,FNV; Habitat: A; Effect Codes: MOR,BEH; Rejection Code: LITE EVAL CODED(CPY,CBL,C8OH,STCH),OK(NP,24DXY,PL),NO CONTROL(FNV),NO ENDPOINT,NO CONTROL(ES).

Degtyarenko, A. M. and Kaufman, M. P. (2003). Bicuculline and Strychnine Suppress the Mesencephalic Locomotor Region-Induced Inhibition of Group III Muscle Afferent Input to the Dorsal Horn. *Neuroscience* 118: 779-788.

EcoReference No.: 108847

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

Deisch, M. S., Uresk, D. W., and Linder, R. L. (1990). Effects of Prairie Dog Rodenticides on Deer Mice in Western South Dakota. *Great Basin Nat.* 50: 347-353.

EcoReference No.: 75543

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

Eichenseer, H. and Mullin, C. A. (1996). Maxillary Appendages Used by Western Corn Rootworms, *Diabrotica virgifera virgifera*, to Discriminate Between a Phagostimulant and -Deterrent. *Entomol.Exp.Appl.* 78: 237-242.

EcoReference No.: 110226

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

Eichenseer, H., Mullin, C. A., and Chyb, S. (1998). Antifeedant Discrimination Thresholds for Two Populations of Western Corn Rootworm. *Physiol.Entomol.* 23: 220-226 .

EcoReference No.: 110197

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

Geiger, D. L., Brooke, L. T., and Call, D. J. (1990). Acute Toxicities of Organic Chemicals to Fathead Minnows (*Pimephales promelas*), Volume 5. *Ctr.for Lake Superior Environ.Stud., Univ.of Wisconsin-Superior, Superior, WI* 332 p.

EcoReference No.: 3217

Chemical of Concern:

CBF,ADC,RTN,NaN<sub>3</sub>,RSM,PCP,AMSV,ACL,ASCN,C8OH,AN,AZ,BNZ,TBTO,CTC,CF,MCRE,DEM,DPA,ETHB,FNV,FYT,FML,ISO,LIM,OML,PL,TBO,TOL,ACD,EAC,TEAM,DPDP,AL,Cd,Co,Fe,Pb,Mn,Ni,Zn,Cr,DMZ,STCH; Habitat: A; Effect Codes: MOR,BEH,PHY,GRO; Rejection Code: LITE EVAL CODED(TBTO,DPDP,FNV,AZ,C8OH,ASCN,CBF,ADC,RTN,NaN<sub>3</sub>,RSM,PCP,AMSV,ACL,TBO,DMZ,STCH).

Green, P. W. C., Simmonds, M. S. J., and Blaney, W. M. (2002). Toxicity and Behavioural Effects of Diet-Borne Alkaloids on Larvae of the Black Blowfly, *Phormia regina*. *Med.Vet.Entomol.* 16: 157-160.

EcoReference No.: 69739

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

Hegdal, P. L. and Gatz, T. A. (1976). Hazards to Wildlife Associated with Underground Strychnine Baiting for Pocket Gophers. In: C.C.Siebe (Ed.) *Proceedings Seventh Vertebrate Pest Conference, Monterey, Ca, Vertebrate Pest Council, Publ.Univ.of Ca, Davis* 258-266.

EcoReference No.: 37064

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

Howard, W. E., Palmateer, S. D., and Nachman, M. (1968). Aversion to Strychnine Sulfate by Norway Rats, Roof Rats, and Pocket Gophers. *Toxicol.Appl.Pharmacol.* 12: 229, 241 (doi: 10.1016/0041-008X(68)90035-5).

EcoReference No.: 110196

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

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,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,HCCH,ML N,MDT,MCB,MOM,MTM,MTPN,MXC,MP,MVP,MRX,NaFA,NABAM,Naled,OXD,PMA,PNB,PPHD, PPX,PQT,PRN,PCP,PNB,PRT,PCL,PSM,PYT,RSM,RTN,STAR,STCH,TBF,TCDD,TFM,T1,TMP,TZL,T VP,TZL,THM,TXP,TCF,TFN,VCZ,ZnP,Zineb,PCB; Habitat: T; Effect Codes: MOR; Rejection 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,STCH).

Kanda, T., Iwamoto, Y., Yoshida, K., and Shimazu, H. (2007). Glycinergic Inputs Cause the Pause of Pontine Omnipause Neurons During Saccades. *Neurosci.Lett.* 413: 16-20.

EcoReference No.: 108846

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

Lee, L. L., Howard, W. E., and Marsh, R. E. (1995). A Telemetry Study of the Responses of Pocket Gophers (*Thomomys monticola*) to Durable Baits. *Acta Zool.Taiwanica* 6: 57-64.

EcoReference No.: 110796

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

Marsh, R. E., Schmidt, R. H., and Howard, W. E. (1987). Secondary Hazards to Coyotes of Ground Squirrels Poisoned with 1080 or Strychnine. *Wildl.Soc.Bull.* 15: 380-385 .

EcoReference No.: 71576

Chemical of Concern: NaFA,STCH; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(STCH),OK(NaFA).

Merrywest, S. D., Fischer, H., and Sillar, K. T. (2002). Alpha-Adrenoreceptor Activation Modulates Swimming via Glycinergic and GABAergic Inhibitory Pathways in *Xenopus laevis* Tadpoles. *Eur.J.Neurosci.* 15: 375-383.

EcoReference No.: 110162

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

Mullin, C. A., Gonzalez-Coloma, A., Gutierrez, C., Reina, M., Eichenseer, H., Hollister, B., and Chyb, S. (1997). Antifeedant Effects of Some Novel Terpenoids on Chrysomelidae Beetles: Comparisons with Alkaloids on an Alkaloid-Adapted and Nonadapted Species. *J.Chem.Ecol.* 23: 1851-1866.

EcoReference No.: 108848

Chemical of Concern: PPB,STCH; Habitat: T; Effect Codes: BEH; Rejection Code: LITE EVAL CODED(STCH),OK(PPB).

Mutze, G. J. (1998). The 1993 Strychnine Baiting Program for Mouse Control in South Australian Grain Crops. I. Efficacy. *Wildl.Res.* 25: 533-546.

EcoReference No.: 110163

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

Mutze, G. J. and Hubbard, D. J. (2000). Effects of Molluscicide Baits on Field Populations of House Mice. *Agric.Ecosyst.Environ.* 80: 205-211.

EcoReference No.: 60402

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

Nistri, A. and Pepeu, G. (1974). Acetylcholine Levels in the Frog Spinal Cord Following the Administration of Different Convulsants. *Eur.J.Pharmacol.* 27: 281, 287 (doi: 10.1016/0014-2999(74)90002-8).

EcoReference No.: 110164

Chemical of Concern: STCHN,DSTCH; Habitat: A; Effect Codes: BCM; Rejection Code: LITE EVAL CODED(STCHN,DSTCH).

Oliver, D. P., Kookana, R. S., Rogers, S. L., Sinclair, R. G., Roberts, G., and Cook, C. (2000). Strychnine Uptake by Cereals and Legumes Grown in the Glasshouse and Field. *J.Environ.Qual.* 29: 1329-1336.

EcoReference No.: 52827

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

Pedersen, C. A., Sterner, R. T., and Goodall, M. J. (2000). Strychnine Alkaloid and Avian Reproduction: Effects Occur at Lower Dietary Concentrations with Mallard Ducks than with Bobwhite Quail. *Arch.Environ.Contam.Toxicol.* 38: 530-539.

EcoReference No.: 46320

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

Rice, P. J., Drewes, C. D., Klubertanz, T. M., Bradbury, S. P., and Coats, J. R. (1997). Acute Toxicity and Behavioral Effects of Chlorpyrifos, Permethrin, Phenol, Strychnine, and 2,4-Dinitrophenol to 30-Day-Old Japanese Medaka (*Oryzias latipes*). *Environ.Toxicol.Chem.* 16: 696-704.

EcoReference No.: 17866

Chemical of Concern: CPY,PL,PMR,STCH; Habitat: A; Effect Codes: MOR,BEH,CEL,GRO,ACC; Rejection Code: LITE EVAL CODED(CPY,PMR,STCH).

Ruggieri, R. D., Pierobon, P., and Kass-Simon, G. (2004). Pacemaker Activity in Hydra is Modulated by Glycine Receptor Ligands. *Comp.Biochem.Physiol.A* 138: 193-202.

EcoReference No.: 108849

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

Sedlacek, J. (1969). The Responses of Optic Evoked Potentials to Strychnine in Chick Embryos. *Exp.Brain Res.* 9: 357-364.

EcoReference No.: 110638

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

Smallwood, K. S. (1999). Abating Pocket Gophers (*Thomomys* spp.) to Regenerate Forests in Clearcuts. *Environ.Conserv.* 26: 59-65.

EcoReference No.: 110493

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

Sterner, R. T., Pederson, C. A., Helsten, B. R., and Goodall, M. J. (1988). Subchronic Dietary Toxicity of Strychnine: Bobwhite Quail are Less Sensitive than Mallard Ducks. *Arch.Environ.Contam.Toxicol.* 35: 498-505.

EcoReference No.: 54524

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

Tucker, R. K. and Haegele, M. A. (1971). Comparative Acute Oral Toxicity of Pesticides to Six Species of Birds. *Toxicol.Appl.Pharmacol.* 20: 57-65.

EcoReference No.: 35499

Chemical of Concern: OXD,CPY,TMP,DCTP,STCH,PPX; Habitat: T; Rejection Code: LITE EVAL CODED(CPY,OXD,TMP,DCTP,STCH,PPX).

Ward, J. C., Martin, M., and Allred, W. (1942). The Susceptibility of Sage Grouse to Strychnine. *J.Wildl.Manag.* 6: 55-57.

EcoReference No.: 108889

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

### **Acceptable for EcoTox but not OPP**

Arjo, W. M. and Nolte, D. L. (2004). Assessing the Efficacy of Registered Underground Baiting Products for Mountain Beaver (*Aplodontia rufa*) Control. *Crop Prot.* 23: 425-430.

EcoReference No.: 75340

Chemical of Concern: ZnP,STCH,CPC,DPC; Habitat: T; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(ZnP,CPC),NO ENDPOINT(DPC,STCH).

Arjo, W. M., Wagner, K. K., Nolte, D. L., Stahl, R. S., and Johnston, J. J. (2006). Potential Non-Target Risks from Strychnine-Containing Rodent Carcasses. *Crop Prot.* 25: 182-187 (doi: 10.1016/j.cropro.2005.03.018).

EcoReference No.: 109039

Chemical of Concern: STCH; Habitat: T; Effect Codes: ACC; Rejection Code: NO DURATION,NO CONC(STCH).

Avery, G. S. Jr. and Sargent, G. B. (1939). The Effect of Various Compounds upon Straight Growth of the Avena Coleoptile. *Am.J.Bot.* 26: 548-555.

EcoReference No.: 41964

Chemical of Concern: CrCl<sub>3</sub>,CaCl<sub>2</sub>,NAA,FUR,Ba,UREA,CdCl<sub>2</sub>,CoCl<sub>2</sub>,Cu,ZnCl<sub>2</sub>,IAA,LLA,IND,STCH;  
Habitat: T; Effect Codes: GRO,PHY; Rejection Code: NO ENDPOINT(ALL CHEMS),NO  
ENDPOINT,NO CONTROL(STCH).

Bazanova, I. S. (1964). Investigation of Adaptation in Somatic Reflex Arc. *Fiziol.Zh.(Kiev)* 50: 1181-1184.

EcoReference No.: 110624

Chemical of Concern: STCH; Habitat: T; Effect Codes: BCM,PHY; Rejection Code: NO  
ENDPOINT(STCH).

Bell, J. (1972). The Acute Toxicity of Four Common Poisons to the Opossum, *Trichosurus Vulpecula*. *New Zealand Veterinary Journal* 20: 212-214.

EcoReference No.: 35036

Chemical of Concern: As,STCH; Habitat: T; Rejection Code: NO ENDPOINT,NO CONTROL(STCH).

Bennett, J. M. (1972). Modification of Strychnine-Induced Convulsions by Anticonvulsants in the Frog. *Neuropharmacology* 11: 297, 299 (doi: 10.1016/0028-3908(72)90102-5) .

EcoReference No.: 110835

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

Bjorge, R. R. and Gunson, J. R. (1985). Evaluation of Wolf Control to Reduce Cattle Predation in Alberta. *J.Range Manag.* 38: 483-487.

EcoReference No.: 109826

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

Bradbury, S. P., Carlson, R. W., Niemi, G. J., and Henry, T. R. (1991). Use of Respiratory-Cardiovascular Responses of Rainbow Trout (*Oncorhynchus mykiss*) in Identifying Acute Toxicity Syndromes in Fish. Part 4. Central Nervous System Seizure Agents. *Environ.Toxicol.Chem.* 10: 115-131.

EcoReference No.: 329

Chemical of Concern: EN,ES,CPY,STCH,CYP,EFV; Habitat: A; Effect Codes: MOR; Rejection Code:  
LITE EVAL CODED(CYP),OK(EN,EFV),NO CONTROL(CPY,ES,STCH).

Brown, P. R. and Lundie-Jenkins, G. (1999). Non-Target Mortalities During Aerial Strychnine Baiting of House Mice. *Wildl.Res.* 26: 117-128.

EcoReference No.: 110918

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

Cassone, M. C. and Fundaro, A. (1972). Drug Antagonism Studied on Frog Flexor Reflex. *Pharmacol.Res.Commun.* 4: 261, 267 (doi: 10.1016/0031-6989(72)90013-6).

EcoReference No.: 110541

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

Chaiarch, P. and Leitch, G. J. (1971). Spinal Shock and Strychnine Convulsions in Intact and Spinal Amphibians

and Reptiles . *Comp.Biochem.Physiol.A* 38: 175, 181 (doi: 10.1016/0300-9629(71)90107-1).

EcoReference No.: 108934

Chemical of Concern: STCHS; Habitat: T; Effect Codes: PHY; Rejection Code: NO CONTROL(STCHS).

Chatt, A. B. and Ebersole, J. S. (1988). Comparisons Between Strychnine and Penicillin Epileptogenesis Suggest that Propagating Epileptiform Abnormalities Require the Potentiation of Thalamocortical Circuitry in Neocortical Layer 4. *Exp.Neurol.* 100: 365-380.

EcoReference No.: 110834

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

Cheney, C. D., Vander Wall, S. B., and Poehlmann, R. J. (1987). Effects of Strychnine on the Behavior of Great Horned Owls and Red-Tailed Hawks. *J.Raptor Res.* 21: 103-110.

EcoReference No.: 69684

Chemical of Concern: STCH; Habitat: T; Effect Codes: BEH,PHY; Rejection Code: NO ENDPOINT(STCH).

Curtis, D. R., Duggan, A. W., and Johnston, G. A. R. (1971). The Specificity of Strychnine as a Glycine Antagonist in the Mammalian Spinal Cord. *Exp.Brain Res.* 12: 547-565.

EcoReference No.: 109034

Chemical of Concern: STCH; Habitat: T; Effect Codes: BCM,PHY; Rejection Code: NO ENDPOINT(STCH).

Davis, W. M. and Yeh, J. Z. (1969). Susceptibility to Strychnine Convulsions in Maturing Rats. *Experientia* 25: 1291-1293.

EcoReference No.: 36355

Chemical of Concern: STCH; Habitat: T; Effect Codes: PHY; Rejection Code: NO CONTROL(STCH).

Dawson, G. W., Jennings, A. L., Drozdowski, D., and Rider, E. (1977). The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. *J.Hazard.Mater.* 1: 303-318 (OECDG Data File).

EcoReference No.: 863

Chemical of Concern: MB,TL,BNZ,DCB,DPDP,VYL,STCH,CTC,PYPG; Habitat: A; Effect Codes: MOR; Rejection Code: LITE EVAL CODED(PYPG,DCB),OK(MB,TL,BNZ,VYL,CTC),NO CONTROL(DPDP,STCH).

El Hani, A., Mason, J. R., Nolte, D. L., and Schmidt, R. H. (1998). Flavor Avoidance Learning and Its Implications in Reducing Strychnine Baiting Hazards to Nontarget Animals. *Physiol.Behav.* 64: 585-589.

EcoReference No.: 58094

Chemical of Concern: DNB,DBAC,STCH; Habitat: T; Effect Codes: BEH; Rejection Code: LITE EVAL CODED(DBAC,DNB),NO MIXTURE(STCH).

Featherstone, D., Drewes, C. D., Coats, J. R., and Bradbury, S. P. (1993). A Non-invasive Neurotoxicity Assay Using Larval Medaka. In: *J.W.Gorsuch, F.J.Dwyer, C.G.Ingersoll, and T.W.LaPointe (Eds.), Environmental Toxicology and Risk Assessment, ASTM STP 1216, Philadelphia, PA* 2: 275-288.

EcoReference No.: 13474

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



Felpel, L. P. (1972). Effects of Strychnine, Bicuculline and Picrotoxin on Labyrinthine-Evoked Inhibition in Neck Motoneurons of the Cat. *Exp.Brain Res.* 14: 494-502 .

EcoReference No.: 110627

Chemical of Concern: STCHS; Habitat: T; Effect Codes: CEL,PHY; Rejection Code: NO ENDPOINT(STCHS).

Ferreiro, J. A., Consuegra, S., Sierra, L. M., and Comendador, M. A. (1997). Is the White-Ivory Assay of *Drosophila melanogaster* a Useful Tool in Genetic Toxicology? *Environ.Mol.Mutagen.* 29: 406-417.

EcoReference No.: 104517

Chemical of Concern: STCH,PQT,FML,DMBA; Habitat: AT; Effect Codes: PHY,BCM; Rejection Code: LITE EVAL CODED(PQT),NO ENDPOINT(STCH).

Hiatt, R. W., Naughton, J. J., and Matthews, D. C. (1953). Effects of Chemicals on a Schooling Fish, *Kuhlia sandvicensis*. *Biol.Bull.* 104: 28-44.

EcoReference No.: 10010

Chemical of Concern:

Cu,Ba,AND,PL,CHN,HCN,PHTH,RTN,ETO,BNZ,HCCH,CHD,PRN,Urea,STCH,ASCN,CuCl,Tl,BRA,CN,24DC,CuS,NaBS,HOX,NaPCP, IAA,NaTTC,ACAC, Boron; Habitat: A; Effect Codes: BEH; Rejection Code: NO ENDPOINT,NO CONTROL(ALL CHEMS).

Howard, W. E., Palmateer, S. D., and Marsh, R. E. (1990). Differential Toxicity and Taste Aversion to Strychnine of Three Subspecies of the California Ground Squirrel (*Spermophilus beecheyi*). *In: L.R.Davis and R.E.Marsh (Eds.), Proc.14th Vertebr.Pest Conf., Univ.of Calif., Davis, CA* 107-112.

EcoReference No.: 71447

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

Hunt, E. G. and Keith, J. O. (1962). Pesticide-Wildlife Investigations in California - 1962. *Proc.2nd Annu.Conf.on the Use of Agricultural Chemicals in California - a Summary of the Problems and Progress in Solving Them, Univ.of California, Davis, CA* 29 p.

EcoReference No.: 18105

Chemical of Concern: ZnP,TXP,STCH,EN,DDT,DLD,MLN,NaFA; Habitat: AT; Effect Codes: POP,MOR,ACC; Rejection Code: NO ENDPOINT(DDT,TXP,DLD,PRN,EN,MLN),CONTROL(DDT,TXP,STCH,ZnP,NaFA,PRN,EN),CONC(DDD).

Ikeda, H. and Robbins, J. (1985). Postnatal Development of GABA- and Glycine-Mediated Inhibition of Feline Retinal Ganglion Cells in the Area Centralis. *Dev.Brain Res.* 23: 1, 17 (doi: 10.1016/0165-3806(85)90002-1).

EcoReference No.: 110495

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

Kim, J. H. and Mullin, C. A. (2003). Antifeedant Effects of Proteinase Inhibitors on Feeding Behaviors of Adult Western Corn Rootworm (*Diabrotica virgifera virgifera*). *J.Chem.Ecol.* 29: 795-810.

EcoReference No.: 109040

Chemical of Concern: STCH; Habitat: T; Effect Codes: BEH; Rejection Code: NO CONTROL(STCH).

Knight, S. D., Miledi, R., Nguyen, Q. T., Overman, L. E., and Pairaudeau, G. (1995). The Enantiomer of Strychnine is a Weak Antagonist of the Inhibitory Glycine Receptor. *Bioorg.Med.Chem.Lett.* 5: 749, 752 (doi:

10.1016/0960-894X(95)00108-6).

EcoReference No.: 110503

Chemical of Concern: STCH; Habitat: AT; Effect Codes: BCM; Rejection Code: NO ENDPOINT(STCH).

Loeb, H. A. and Kelly, W. H. (1963). Acute Oral Toxicity of 1,496 Chemicals Force-Fed to Carp. *U.S.Fish.Wildl.Serv., Sp.Sci.Rep.-Fish.No.471, Washington, D.C.*: 124 p.

EcoReference No.: 15898

Chemical of Concern:

AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP,NaPCP,AsA C,ACL,ATZ,Se,Zn,DZ,PYPG,CHR,BPH,STCH,MBTZ; Habitat: A; Effect Codes: MOR,BEH;

Rejection Code: NO

CONTROL(AZ,Captan,CBL,CMPH,HCCH,MLN,Naled,SZ,PNB,ACL,WFN,FUR,DPC,RTN,NaN3,PCP, NaPCP,AsAC,ACL,ATZ,Se,Zn,DZ,PYPG,CHR,BPH),NO ENDPOINT,NO CONTROL(STCH,MBTZ).

MacGregor, J. T., Layton, L. L., and Buttery, R. G. (1974). California Bay Oil. II. Biological Effects of Constituents. *J.Agric.Food.Chem.* 22: 777-780.

EcoReference No.: 5740

Chemical of Concern: MEG,EGL,STCH; Habitat: AT; Effect Codes: PHY,MOR; Rejection Code: NO ENDPOINT(MEG,EGL),NO ENDPOINT,NO CONTROL(STCH).

Mead-Briggs, A. R. and Trout, R. C. (1975). A Field Evaluation of the Effectiveness of a Phosphine Fumigant for Mole Control. *Agro-Ecosystems* 2: 1, 13 (doi: 10.1016/0304-3746(75)90002-5).

EcoReference No.: 110919

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

Nelson, L. (1972). Neurochemical Control of Arbacia Sperm Motility. *Exp.Cell Res.* 74: 269, 274 (doi: 10.1016/0014-4827(72)90504-6).

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

Osuide, G. (1968). Effects of Some Centrally-Acting Drugs in Conscious Chicks and on Spinal Reflexes. *Eur.J.Pharmacol.* 3: 283, 293 (doi: 10.1016/0014-2999(68)90109-X).

EcoReference No.: 110165

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

Osuide, G. and Adejoh, P. O. (1973). Interaction Between Strychnine and gamma-Aminobutyric Acid in Chicks. *Eur.J.Pharmacol.* 24: 120, 122 (doi: 10.1016/0014-2999(73)90123-4).

EcoReference No.: 110166

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

Proulx, G. (1998). Evaluation of Strychnine and Zinc Phosphide Baits to Control Northern Pocket Gophers (*Thomomys talpoides*) in Alfalfa Fields in Alberta, Canada. *Crop Prot.* 17: 135-138.

EcoReference No.: 75465

Chemical of Concern: ZnP,STCH; Habitat: T; Effect Codes: POP; Rejection Code: NO

ENDPOINT(ZnP,STCH).

Quilliam, J. P. and Stables, R. (1969). Convulsant Effects of Cunaniol, a Polyacetylenic Alcohol Isolated from the Plant *Clibadium sylvestre*, on Frogs and Mice. *Pharmacol.Res.Comm.* 1: 7, 14 (doi: 10.1016/S0031-6989(69)80016-0).

EcoReference No.: 110502

Chemical of Concern: STCH; Habitat: AT; Effect Codes: PHY,MOR; Rejection Code: NO CONTROL(STCH).

Schafer, E. W. Jr. and Bowles, W. A. Jr. (1985). Acute Oral Toxicity and Repellency of 933 Chemicals to House and Deer Mice. *Arch.Environ.Contam.Toxicol.* 14: 111-129.

EcoReference No.: 35426

Chemical of Concern:

ADC,CST,MOM,CPC,ZnP,DOD,MLN,Cu,AQS,CuCO,RSM,ACL,4AP,DZ,As,IAA,CBL,DNB,Captan,Folpet,CAP,DS,TBT,CMPH,FMP,DU,IND,OXT,FNT,BCDI,CXL,STCH,MBTZ,PPX,TDC; Habitat: T; Effect Codes: MOR; Rejection Code: NO CONTROL(ADC,CST,MOM,CPC,ZnP,DOD,MLN,Cu,AQS,CuCO,RSM,ACL,4AP,DZ,As,IAA,CBL,DNB,Captan,Folpet,CAP,DS,TBT,CMPH,FMP,DU,IND,OXT,FNT,BCDI,CXL,STCH,PPX),NO ENDPOINT,NO CONTROL(TBT,CMPH,DU,BCDI,MBTZ,TDC).

Schitoskey, F. Jr. (1975). Primary and Secondary Hazards of Three Rodenticides to Kit Fox. *J.Wildl.Manag.* 39: 416-418.

EcoReference No.: 35428

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

St.John, W. M. and Bledsoe, T. A. (1985). Comparison of Respiratory-Related Trigeminal, Hypoglossal and Phrenic Activities. *Respir.Physiol.* 62: 61, 78 (doi: 10.1016/0034-5687(85)90050-7).

EcoReference No.: 110122

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

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Chemical of Concern: STCHS,STCHN; Habitat: T; Effect Codes: PHY; Rejection Code: NO ENDPOINT(STCHS,STCHN).

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EcoReference No.: 108850

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EcoReference No.: 110625

Chemical of Concern: STCHN,NaCl,MgCl2; Habitat: A; Effect Codes: PHY,BEH; Rejection Code: NO

ENDPOINT(STCHN,NaCl,MgCl2).

Tellez-Villagra, C., Vazquez, F., De La Mora, P., and Brust-Carmona, H. (1981). Modification of Motor Activity, Passive Avoidance Conditioning and Evoked Potentials by Microinjections of Strychnine in both Caudate Nuclei in Cats. *Pharmacol.Biochem.Behav.* 14: 193, 199 (doi: 10.1016/0091-3057(81)90242-2).

EcoReference No.: 110539

Chemical of Concern: STCH; Habitat: T; Effect Codes: BEH,PHY; Rejection Code: NO ENDPOINT(STCH).

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Wright, C. W., Allen, D., Cai, Y., Chen, Z., Phillipson, J. D., Kirby, G. C., Warhurst, D. C., Tits, M., and Angenot, L. (1994). Selective Antiprotozoal Activity of Some Strychnos Alkaloids. *Phytother.Res.* 8: 149-152.

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Chem Codes: Chemical of Concern: STCH Rejection Code: ABSTRACT,HUMAN HEALTH.

Case Records of the Massachusetts General Hospital. Weekly Clinicopathological Exercises. Case 12-2001. A 16-Year-Old Boy With an Altered Mental Status and Muscle Rigidity. *N engl.j med.* 2001, apr 19; 344(16):1232-9. [The new england journal of medicine]: N Engl J Med.  
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Chem Codes: Chemical of Concern: STCH Rejection Code: CHEM METHODS.

- Mexican Wolf Blue Range Reintroduction Project 5-Year Review: Technical Component. *Govt reports announcements & index (gra&i), issue 14, 2008.*  
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Chem Codes: Chemical of Concern: STCH Rejection Code: NO TOX DATA,REVIEW.
- 1990). Stereochemistry abstracts. 1: A53-A61.  
Chem Codes: Chemical of Concern: STCH Rejection Code: ABSTRACT.
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- Toxics Release Inventory: List of Toxic Chemicals Within the Polychlorinated Alkanes Category and Guidance for Reporting. *Govt reports announcements & index (gra&i), issue 13, 2095.*  
Chem Codes: Chemical of Concern: STCH Rejection Code: FATE,REVIEW.
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selection was based on a regression line connecting body and brain weight. SB mice were more sensitive to both drugs—their seizure latencies were shorter and lethality higher than in LBs. The seizures generated by Ptz and S are known to affect different neurotransmitter systems. The interstrain differences in seizure susceptibility are probably determined by SB mice nervous system traits rather than by differences in the particular neurochemical trait. The data on neocortical cytoarchitectonics obtained during our previous brain selection experiment could serve as the indirect evidence favouring such a suggestion./**Author Keywords:** mice; experimental epilepsy; pentylenetetrazol; strychnine; brain weight; selection; cortex architectonics; behavior genetics.

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C,MLO,MTB,NCTN,NHP,SRT,OMT,PQT,PbAC,PbN,PHE,PAH,PL,PTR,PND,K2CrO4,K2Cr2O7,PYPG ,PYR,PAH,PYN,SBA,SAC,SCA,Sb,AgN,nABr,SFL,NaNO3,STCH,SFT,SA,TBT,TMP,TMT,TI,TBA,TP M,THM,TOL,3CE,TEG,FRN,TPR,UREA,MTPN,VCZ,WFN,Zineb Rejection Code: REVIEW.

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 BF,NCTN,PPX,TCF,TEPP,FNT,CPY,ADC,STCH,EGY,CTC,C6OH,3CE,BNZ,2BE,PCP,ATN,DM,RSM,  
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