

Appendix C

Summary of Ecotoxicity Data

Table C-1. Acute Toxicity of Difenacoum to Aquatic Organisms					
Species	% a.i.	LC ₅₀ / EC ₅₀ (ppb)	Toxicity Category	MRID No.	Study Classification
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	96.3	64	Very Highly Toxic	46750919	In Review
Bluegill sunfish (<i>Lepomis macrochirus</i>)	96.3	258	Very Highly Toxic	46750920	In Review
Waterflea (<i>Daphnia magna</i>)	61.4% <i>cis</i> 38.6% <i>trans</i>	520	Very Highly Toxic	46750918	In Review
Waterflea (<i>Daphnia magna</i>)	96.3%	610	Very Highly Toxic	46750917	In Review
Green alga (<i>Selenastrum capicornutum</i>)	61.4% <i>cis</i> 38.6% <i>trans</i>	≥ 2500	N/A	46766205	In Review
Green alga (<i>Selenastrum capicornutum</i>)	96.3	320/ 250 (NOAEC)	N/A	46750929	In Review

Table C-2. Acute Toxicity of Difenacoum to Terrestrial Organisms						
Species	Study Type Guideline	% a.i.	LD ₅₀ / LC ₅₀	Toxicity Category	MRID No.	Study Classification
Northern bobwhite (<i>Colinus virginianus</i>)	Acute Oral 850.2100	91.1	66.9 mg/kg- bw	Moderately Toxic	46750922	Acceptable
Mallard (<i>Anas platyrhynchos</i>)	Acute Oral 850.2100	94.6	> 2000 mg/kg- bw	Practically Non- Toxic	46750921	Acceptable
Mallard (<i>Anas platyrhynchos</i>)	Acute Dietary 850.2200	91.1	14.1 mg/kg- diet	Very Highly Toxic	46750926	Supplemental
Northern bobwhite (<i>Colinus virginianus</i>)	Acute Dietary 850.2200	96.5	954 mg/kg- diet	Moderately Toxic	46750923	Supplemental
Ring-necked pheasant (<i>Phasianus colchicus</i>)	Acute Dietary 850.2200	96.5	57.3 mg/kg- diet	Highly Toxic	46766204	Supplemental
Laboratory rat--males (<i>Rattus norvegicus</i>)	Acute Oral 870.1100	98.7	1.8	Very Highly Toxic	46750935	Acceptable
Laboratory rat--females (<i>Rattus norvegicus</i>)	Acute Oral 870.1100	98.7	2.6	Very Highly Toxic	46750936	Acceptable

Table C-3. Secondary Toxicity of Difenacoum to Terrestrial Organisms				
Species	Prey Offered to Birds	Affected Endpoints	MRID	Status
Barn Owls (<i>Tyto alba</i>)	Rats fed difenacoum at 50 ppm. Birds were fed for 1,3, 6 & 10 days	Owls feeding for 6 & 10 days had sublethal effects including hemorrhaged (1 severely)	46750931	Supplemental