

Appendix C: Risk Quotient (RQ) Method and Levels of Concern (LOCs)

Risk Presumption	RQ	LOC
Birds and Wild Mammals		
Acute Risk	Dietary based: EEC^a (ppm ^b) / LC_{50} (ppm) Dose based: EEC (mg/kg-bw/d) / LD_{50} (mg/kg-bw/d ^c)	0.5
Acute Restricted Use	Dietary based: EEC (ppm) / LC_{50} (ppm) Dose based: EEC (mg/kg-bw/d) / LD_{50} (mg/kg-bw/d)	0.2
Acute Listed Species	Dietary based: EEC (ppm) / LC_{50} (ppm) Dose based: EEC (mg/kg-bw/d) / LD_{50} (mg/kg-bw/d)	0.1
Chronic Risk	Dietary based: EEC (ppm) / $NOAEC$ (ppm) Dose based: EEC (mg/kg-bw/d) / $NOAEL$ (mg/kg-bw/d)	1.0
Aquatic Animals		
Acute Risk	EEC (ppm) / (LC_{50} (ppm) or EC_{50} (ppm))	0.5
Acute Restricted Use	EEC (ppm) / (LC_{50} (ppm) or EC_{50} (ppm))	0.1
Acute Listed Species	EEC (ppm) / (LC_{50} (ppm) or EC_{50} (ppm))	0.05
Chronic Risk	EEC (ppm) / $NOAEC$ (ppm)	1.0
Terrestrial Plants and Plants Inhabiting Semi-Aquatic Areas		
Acute Risk	EEC (lbs ai/A) / EC_{25} (lbs ai/A)	1.0
Acute Listed Use	EEC (lbs ai/A) / (EC_{05} or $NOAEC$ (lbs ai/A))	1.0
Aquatic Plants		
Risk	EEC (ppm) / EC_{50} (ppm)	1.0
Listed Species	EEC (ppm) / (EC_{05} or $NOAEC$ (ppm))	1.0

^a EEC = estimated environmental concentration

^b ppm = parts per million

^c mg/kg-bw/d = milligrams per kilogram of body weight per day