

## APPENDIX C. Risk Quotient (RQ) Method and Levels of Concern (LOCs)

**Table 1. Categories of Toxicity for Aquatic Organisms**

LC <sub>50</sub> (ppm)	Toxicity Category
< 0.1	Very highly toxic
> 0.1 - 1	Highly toxic
> 1 - 10	Moderately toxic
> 10 - 100	Slightly toxic
> 100	Practically nontoxic

**Table 2. Categories of Toxicity for Terrestrial Organisms**

Oral dose LD <sub>50</sub> (mg/kg-bw)	Toxicity Category
< 10	Very highly toxic
10 - 50	Highly toxic
51 - 500	Moderately toxic
501 - 2000	Slightly toxic
> 2000	Practically nontoxic
Dietary LC <sub>50</sub> (ppm)	Toxicity Category
< 50	Very highly toxic
50 - 500	Highly toxic
501 - 1000	Moderately toxic
1001 - 5000	Slightly toxic
> 5000	Practically nontoxic

**Table 3. Categories of Toxicity for Bee**

Bee Acute Contact LD <sub>50</sub> (µg/bee)	Toxicity Category
<2	Highly toxic
2 – 10.99	Moderately toxic
≥ 11	Practically nontoxic

**Table 4. Levels of Concern for Terrestrial and Aquatic Organisms**

Taxa	Acute LOC	Chronic LOC
Avian <sup>1</sup> (terrestrial phase amphibians)	0.1	1
Mammalian <sup>2</sup>	0.1	1
Terrestrial <sup>3</sup> and Aquatic plants <sup>4</sup>	1	
Aquatic Animals <sup>5</sup> (aquatic phase amphibians)	0.05	1
Insects <sup>6</sup>	0.05	1

Used in RQ calculations:

<sup>1</sup> LD<sub>50</sub> and estimated NOEL

<sup>2</sup> LD<sub>50</sub> and NOEC

<sup>3</sup> EC25

<sup>4</sup> EC50

<sup>5</sup> LC/EC<sub>50</sub> and estimated and reproductive NOEC

<sup>6</sup> LD<sub>50</sub> per EFED's CRLF Steering Committee