EPA Screening Assessment on Glyphosate in Honey

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Pesticide	Residue Limit Source	Residue (ppm)	Residue (mg/g)	cPAD (mg/kg-day)	95% con (g/kg)	100% con (g/kg)	95th cEXP (mg ai/kg-bw)	100th aEXP (mg ai/kg-bw)	%cPAD (95th)	%cPAD (100th)
Glyphosate	Food Tolerance (Canada)	0.1	0.0001	1	0.26	4.61	0.000026	0.000461	0.0026	0.0461
-	Highest per Rubio et al., 2014	0.163	0.000163	1	0.26	4.61	0.00004238	0.00075143	0.004238	0.075143
-	US Drinking Water Limit	0.7	0.0007	1	0.26	4.61	0.000182	0.003227	0.0182	0.3227

Necessary consumption amount for %cPAD to reach 100% (in g/kg)			... in kg/kg	Total for 80 kg human adult (kg abs.)	Total for 15 kg child (kg abs.)
Food Tolerance (Canada)		10000	10	800	150
Highest per Rubio et al., 2014	=	6134.969325	6.134969325	490.797546	92.02453988
US Drinking Water Limit		1428.571429	1.428571429	114.2857143	21.42857143

Necessary consumption amount for %cPAD to reach 10% (in g/kg)			... in kg/kg	Total for 80 kg human adult (kg abs.)	Total for 15 kg child (kg abs.)
Food Tolerance (Canada)		1000	1	80	15
Highest per Rubio et al., 2014	=	613.4969325	0.613496933	49.07975546	9.202453988
US Drinking Water Limit		142.8571429	0.142857143	11.42857143	2.142857143

Quick Summary

Dietary exposure based on the maximum recorded consumption by bodyweight (4.61 g/kg; 1-2 yrs old) AND highest residue concentration from *Rubio* et al (163 ppm) totals only **0.075%** of the cPAD for Glyphosate, or **0.000751 mg/kg**.

In real terms, as shown on the table, a 15 kg child would need to consume 9.2 **kilograms** of honey… **daily**… to get an exposure that was **10% of the cPAD** (1.0 mg/kg-day).

As the weight of raw honey is approx. 1 teaspoon = 7g; ½ cup = 169g: a 15 kg child consuming the maximum recorded consumption level of honey (4.61 g/kg) would consume **69.15 g** absolute, or **133 times less** than necessary to get to 10% of the cPAD.

- With the same conversion factor, the 9.2 kg of honey necessary to get 10% of the cPAD equals approx: **27.218 Cups** of honey or **1.7 Gallons (US)**… **Every Day**.

As a result, HED does not currently anticipate any serious risks to human health as a result of the normal consumption of honey with current documented residue levels.