APPENDIX L: SUMMARY OF HUMAN HEALTH EFFECTS DATA FOR PROMETRYN

Table 1 is from HED Memorandum 1/20/1998 (Prometryn in or on Carrots. Tolearance with no U.S. Registration. U.S. Harmonization of Pesticide Tolerances with Canada.)

Table 2 is from HED Memorandum 9/30/1997 (Prometryn. Update of Toxicology Endpoint Selection Document and Evaluation with Respect to FQPA.)

Table 1. Acute toxicity studies on prometryn

TEST	RESULT	CATEGORY
Oral LD50 in rat (MRID 00060314)	LD50 M: 1802 (1265-2568) mg/kg F: 2076 (1654-2607) mg/kg	III
Dermal LD50 in Rat (MRID 00060647)	LD50 >3170 mg/kg.	III
Four-hr Inhalation LC50 in rat (MRID 42325503)[1]	LC50 = 4.96 mg/L	IV
Eye Irritation in rabbit (MRID 40776601)[2]	Mild Irritation	III
Dermal Irritation in rabbit (MRID 00060317)	Slight Irritation	IV
Dermal sensitization in Guinea Pig (MRID 00256682)[3]	Not a sensitizer	N/A

[1] 80% formulation
[2] 95% formulation
[3] 44.4% formulation

Table 2. Chronic toxicity studies on prometryn

CHEMICAL: PROMETRYN

DER #	STUDY TYPE - DOSE LEVELS	NOEL (mg/kg-day)	LEL (mg/kg-day)
1	2-YR FEEDING/ONCO RAT (1991) 0, 10, 100, 750 & 1500 ppm M: 0, 0.38, 3.9, 29.45 & 60.88 mg/kg-day F: 0, 0.49, 4.91, 37.25 & 80.62 mg/kg-day	29.45 (Male) 37.25 (Female)	60.88 (Male) 80.62 (Female)
2	2-YR FEEDING RAT (1965) 0, 25, 125 & 625 ppm (1-4 weeks 0, 1.25, 6.25 & 31.25 mg/kg-day 0, 50, 250 & 1250 ppm (5-104 weeks) 0, 2.5, 12.5 & 62.5 mg/kg-day	62.5 Reduced doses were used for the first 4 weeks, "In order to approximate a constant level of compound intake."	----
3	102-WEEK FEED/ONCO MOUSE (1981) 0, 10, 1000 & 3000 ppm 0, 1.5, 150 & 450 mg/kg-day	150 (Female) 450 (Male)	450 (Female) --- (Male)
4	2-YR FEEDING DOG (1965) 0, 15, 150 & 1500 ppm 0, 0.375, 3.75 & 37.5 mg/kg-day	3.75	37.5
5	2-GEN REPRODUCTION RAT (1990) 0, 10, 750 & 1500 ppm M: 0, 0.6, 47.8 & 96.7 mg/kg F: 0, 0.7, 53.6 &105.6 mg/kg	0.6 (M - Systemic) 0.7 (F - Systemic) 0.6 (M - Reproduct) 0.7 (F - Reproduct)	47.8 (M - Systemic) 53.6 (F - Systemic) 47.8 (M - Reproduct) 53.6 (F - Reproduct)
6	3-GEN REPRODUCTION RAT (1966) 0, 50 & 100 ppm 0, 2.5 & 5 mg/kg-day	5 (Systemic) 5 (Reproductive)	-- (Systemic) -- (Reproductive)
7	DEVELOPMENTAL TOX RAT (1987) 0, 10, 50 & 250 mg/kg-day	50 (Maternal) 50 (Developmental)	250 (Maternal) 250 (Developmental)
8	DEVELOPMENTAL TOX RABBIT (1985) 0, 2, 12 & 72 mg/kg-day	12 (Maternal) 12 (Fetotoxicity) 72 (Developmental)	72 (Maternal) 72 (Fetotoxicity) -- (Developmental)
9	28-DAY FEEDING MOUSE (1977) 0, 30, 100, 300, 600, 1000, 3000, 10,000 & 30,000 ppm 0, 4.5, 15, 45, 90, 150, 450, 1500 & 4500 mg/kg-day	450	1500