

**Study Number:** C06100

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

**Study Gender:**

**PWG Approval Date**

**PA43: Hematology Summary**

**Test Compound:** Perfluorohexane sulfonate potassium salt

**CAS Number:** 3871-99-6

C06100

Female

See web page for date of PWG Approval

**Date Report Requested:** 01/17/2019

**Time Report Requested:** 10:10:51

**Lab:** Battelle

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	Phase Day	Treatment Groups (mg/kg/day)			
		0	3.12	6.25	12.5
Hematocrit (%)	SD 28	46.4 ± 0.6 (10)	46.5 ± 0.5 (10)	46.4 ± 0.7 (10)	46.0 ± 0.6 (10)
Percent of Control			100.1	99.9	99.2
Manual Hematocrit (%)	SD 28	42.0 ± 0.6 (10)	42.0 ± 0.7 (10)	42.1 ± 0.8 (10)	41.6 ± 0.6 (10)
Percent of Control			100.0	100.2	99.0
Hemoglobin (g/dL)	SD 28	14.5 ± 0.2 (10)	14.4 ± 0.1 (10)	14.5 ± 0.2 (10)	14.4 ± 0.2 (10)
Percent of Control			99.4	100.0	98.9
Erythrocytes (10 <sup>6</sup> /uL)	SD 28	7.71 ± 0.08 (10)	7.61 ± 0.09 (10)	7.76 ± 0.09 (10)	7.69 ± 0.11 (10)
Percent of Control			98.72	100.66	99.82
Reticulocytes (10 <sup>3</sup> /uL)	SD 28	154.8 ± 8.8 (10)	217.0 ± 16.0 (10) *	179.1 ± 12.3 (10)	188.6 ± 11.9 (10)
Percent of Control			140.2	115.7	121.8
Mean Cell Volume (fL)	SD 28	60.2 ± 0.4 (10)	61.1 ± 0.6 (10)	59.8 ± 0.6 (10)	59.9 ± 0.4 (10)
Percent of Control			101.5	99.3	99.5
Mean Cell Hemoglobin (pg)	SD 28	18.8 ± 0.1 (10)	19.0 ± 0.2 (10)	18.7 ± 0.2 (10)	18.7 ± 0.2 (10)
Percent of Control			100.7	99.4	99.2
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.3 ± 0.1 (10)	31.1 ± 0.1 (10)	31.3 ± 0.1 (10)	31.2 ± 0.1 (10)
Percent of Control			99.3	99.9	99.6
Platelets (10 <sup>3</sup> /uL)	SD 28	1032 ± 28 (10)	1027 ± 20 (10)	987 ± 23 (10)	994 ± 39 (10)
Percent of Control			100	96	96
White Blood Cells (10 <sup>3</sup> /uL)	SD 28	8.19 ± 0.69 (10)	7.29 ± 0.49 (10)	8.82 ± 0.54 (10)	7.41 ± 0.66 (10)
Percent of Control			89.05	107.68	90.49
Neutrophils (10 <sup>3</sup> /uL)	SD 28	0.69 ± 0.07 (10)	0.67 ± 0.09 (10)	0.79 ± 0.05 (10)	0.64 ± 0.06 (10)
Percent of Control			96.96	114.18	92.62

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	Phase Day	Treatment Groups (mg/kg/day)			
		0	3.12	6.25	12.5
Lymphocytes (10 <sup>3</sup> /uL)	SD 28	7.18 ± 0.61 (10)	6.32 ± 0.41 (10)	7.67 ± 0.48 (10)	6.45 ± 0.61 (10)
Percent of Control			88.00	106.78	89.77
Total Lymphocytes (10 <sup>3</sup> /uL)	SD 28	7.24 ± 0.62 (10)	6.38 ± 0.42 (10)	7.72 ± 0.48 (10)	6.50 ± 0.63 (10)
Percent of Control			88.08	106.70	89.75
Monocytes (10 <sup>3</sup> /uL)	SD 28	0.17 ± 0.03 (10)	0.14 ± 0.03 (10)	0.17 ± 0.03 (10)	0.18 ± 0.06 (10)
Percent of Control			82.25	99.41	108.88
Basophils (10 <sup>3</sup> /uL)	SD 28	0.01 ± 0.00 (10) *	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control			100.00	180.00	140.00
Eosinophils (10 <sup>3</sup> /uL)	SD 28	0.08 ± 0.01 (10)	0.10 ± 0.01 (10)	0.13 ± 0.01 (10)	0.08 ± 0.01 (10)
Percent of Control			120.24	148.81	100.00

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	Phase Day	Treatment Groups (mg/kg/day)	
		25	50
Hematocrit (%)	SD 28	45.9 ± 0.5 (10)	45.4 ± 0.4 (10)
Percent of Control		98.8	97.8
Manual Hematocrit (%)	SD 28	41.1 ± 0.6 (10)	41.2 ± 0.6 (10)
Percent of Control		97.9	98.1
Hemoglobin (g/dL)	SD 28	14.3 ± 0.1 (10)	14.2 ± 0.1 (10)
Percent of Control		98.8	97.9
Erythrocytes (10 <sup>6</sup> /uL)	SD 28	7.75 ± 0.09 (10)	7.48 ± 0.09 (10)
Percent of Control		100.49	97.06
Reticulocytes (10 <sup>3</sup> /uL)	SD 28	164.8 ± 12.2 (10)	182.2 ± 11.9 (10)
Percent of Control		106.5	117.7
Mean Cell Volume (fL)	SD 28	59.3 ± 0.4 (10)	60.7 ± 0.6 (10)
Percent of Control		98.4	100.9
Mean Cell Hemoglobin (pg)	SD 28	18.5 ± 0.2 (10)	19.0 ± 0.2 (10)
Percent of Control		98.5	101.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 28	31.3 ± 0.2 (10)	31.3 ± 0.1 (10)
Percent of Control		99.9	100.0
Platelets (10 <sup>3</sup> /uL)	SD 28	994 ± 26 (10)	1013 ± 22 (10)
Percent of Control		96	98
White Blood Cells (10 <sup>3</sup> /uL)	SD 28	7.83 ± 0.47 (10)	9.36 ± 0.85 (10)
Percent of Control		95.64	114.34
Neutrophils (10 <sup>3</sup> /uL)	SD 28	0.63 ± 0.05 (10)	0.99 ± 0.12 (10)
Percent of Control		91.46	143.56

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	Phase Day	Treatment Groups (mg/kg/day)	
		25	50
Lymphocytes (10 <sup>3</sup> /uL)	SD 28	6.91 ± 0.41 (10)	7.92 ± 0.75 (10)
Percent of Control		96.24	110.32
Total Lymphocytes (10 <sup>3</sup> /uL)	SD 28	6.97 ± 0.42 (10)	8.01 ± 0.76 (10)
Percent of Control		96.24	110.60
Monocytes (10 <sup>3</sup> /uL)	SD 28	0.14 ± 0.02 (10)	0.26 ± 0.03 (10)
Percent of Control		81.66	150.89
Basophils (10 <sup>3</sup> /uL)	SD 28	0.01 ± 0.00 (10)	0.01 ± 0.00 (10)
Percent of Control		160.00	200.00
Eosinophils (10 <sup>3</sup> /uL)	SD 28	0.09 ± 0.01 (10)	0.10 ± 0.01 (10)
Percent of Control		108.33	119.05

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LEGEND

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Values given as mean  $\pm$  SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

Hematology for gestation phase includes pregnant females only

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

**\*\* END OF REPORT \*\***