

**Study Number:** C20022-01  
**Test Type:** TOX  
**Route:** Oral Gavage  
**Species/Strain:** Rat/Sprague Dawley

**PA43: Hematology Summary**  
**Test Compound:** Perfluorohexanesulfonamide  
**CAS Number:** 41997-13-1

**Date Report Requested:** 12/07/2020  
**Time Report Requested:** 15:48:08  
**Lab:** Battelle

**Study Number:** C20022-01  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.1.3

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Lab: Battelle

Male: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
Hematocrit (%)	SD 5	52.5 ± 1.9 (6)	51.0 ± 0.8 (2)	53.6 ± 2.3 (4)	53.1 ± 1.6 (4)
Percent of Control			97.1	102.0	101.1
Manual Hematocrit (%)	SD 5	49.0 ± 1.5 (6)	46.3 ± 1.8 (3)	49.8 ± 2.3 (4)	50.8 ± 1.4 (4)
Percent of Control			94.6	101.5	103.6
Hemoglobin (g/dL)	SD 5	15.4 ± 0.4 (6)	15.2 ± 0.2 (2)	15.8 ± 0.9 (4)	16.6 ± 0.3 (4)
Percent of Control			99.0	102.8	108.3
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	8.53 ± 0.28 (6) *	8.40 ± 0.29 (2)	8.79 ± 0.33 (4)	8.61 ± 0.21 (4)
Percent of Control			98.5	103.0	100.9
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	241.9 ± 7.7 (6)	281.2 ± 19.5 (2)	267.0 ± 17.0 (4)	275.3 ± 12.6 (4)
Percent of Control			116.2	110.4	113.8
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (6)	0.00 ± 0.00 (2)	0.00 ± 0.00 (4)	0.00 ± 0.00 (4)
Mean Cell Volume (fL)	SD 5	61.6 ± 0.3 (6)	60.8 ± 1.2 (2)	61.0 ± 0.8 (4)	61.6 ± 0.6 (4)
Percent of Control			98.8	99.1	100.1
Mean Cell Hemoglobin (pg)	SD 5	18.0 ± 0.2 (6)	18.1 ± 0.4 (2)	17.9 ± 0.4 (4)	19.3 ± 0.1 (4)
Percent of Control			100.6	99.6	107.4
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	29.3 ± 0.3 (6)	29.8 ± 0.1 (2)	29.4 ± 0.3 (4)	31.4 ± 0.4 (4)
Percent of Control			101.7	100.5	107.3
Platelets (10 <sup>3</sup> /uL)	SD 5	872 ± 22 (6)	942 ± 25 (2)	819 ± 42 (4)	828 ± 78 (4)
Percent of Control			107.9	93.9	94.9
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	9.22 ± 0.62 (6)	9.29 ± 0.86 (2)	8.58 ± 0.73 (4)	10.42 ± 1.58 (4)
Percent of Control			100.7	93.1	113.0
Neutrophils (10 <sup>3</sup> /uL)	SD 5	0.84 ± 0.12 (6) **	1.08 ± 0.22 (2)	0.85 ± 0.06 (4)	1.34 ± 0.16 (4)

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
Percent of Control			128.7	101.2	160.2
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	7.86 ± 0.45 (6)	7.85 ± 0.96 (2)	7.16 ± 0.55 (4)	8.48 ± 1.51 (4)
Percent of Control			99.8	91.0	107.8
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.35 ± 0.05 (6)	0.24 ± 0.09 (2)	0.43 ± 0.12 (4)	0.41 ± 0.05 (4)
Percent of Control			68.1	125.4	118.8
Basophils (10 <sup>3</sup> /uL)	SD 5	0.03 ± 0.00 (6)	0.02 ± 0.01 (2)	0.03 ± 0.01 (4)	0.02 ± 0.01 (4)
Percent of Control			56.3	103.1	65.6
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.09 ± 0.01 (6)	0.05 ± 0.01 (2)	0.06 ± 0.01 (4)	0.09 ± 0.01 (4)
Percent of Control			53.6	67.0	96.4
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.07 ± 0.01 (6)	0.07 ± 0.01 (2)	0.06 ± 0.01 (4)	0.09 ± 0.02 (4)
Percent of Control			100.0	92.3	134.6

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		Treatment Groups (mg/kg)			
	Phase Day	4	12	37	111
Hematocrit (%)	SD 5	50.6 ± 0.5 (5)	51.5 ± 1.1 (3)	50.0 ± 1.1 (2)	50.5 ± 0.7 (4)
Percent of Control		96.3	98.0	95.1	96.1
Manual Hematocrit (%)	SD 5	47.8 ± 0.5 (5)	48.0 ± 0.6 (3)	46.5 ± 1.5 (2)	46.8 ± 1.0 (4)
Percent of Control		97.6	98.0	94.9	95.4
Hemoglobin (g/dL)	SD 5	16.1 ± 0.1 (5)	15.7 ± 0.3 (3)	14.6 ± 0.0 (2)	14.9 ± 0.2 (4)
Percent of Control		104.8	102.1	95.1	96.9
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	8.23 ± 0.10 (5)	8.44 ± 0.26 (3)	7.99 ± 0.00 (2)	8.03 ± 0.14 (4)
Percent of Control		96.5	98.9	93.7	94.1
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	236.4 ± 16.1 (5)	248.9 ± 15.7 (3)	232.3 ± 0.3 (2)	219.1 ± 13.9 (4)
Percent of Control		97.7	102.9	96.0	90.6
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (5)	0.00 ± 0.00 (3)	0.00 ± 0.00 (2)	0.00 ± 0.00 (4)
Mean Cell Volume (fL)	SD 5	61.5 ± 0.1 (5)	61.0 ± 0.9 (3)	62.5 ± 1.3 (2)	62.9 ± 0.6 (4)
Percent of Control		99.9	99.2	101.5	102.2
Mean Cell Hemoglobin (pg)	SD 5	19.5 ± 0.4 (5) *	18.6 ± 0.5 (3)	18.3 ± 0.1 (2)	18.5 ± 0.2 (4)
Percent of Control		108.6	103.3	101.4	102.8
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	31.8 ± 0.5 (5) *	30.4 ± 0.9 (3)	29.3 ± 0.6 (2)	29.5 ± 0.2 (4)
Percent of Control		108.7	104.0	99.9	100.6
Platelets (10 <sup>3</sup> /uL)	SD 5	717 ± 24 (5)	817 ± 81 (3)	719 ± 84 (2)	841 ± 41 (4)
Percent of Control		82.2	93.7	82.4	96.4
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	11.25 ± 0.86 (5)	11.06 ± 0.46 (3)	10.76 ± 2.82 (2)	9.91 ± 0.32 (4)
Percent of Control		122.0	119.9	116.7	107.4
Neutrophils (10 <sup>3</sup> /uL)	SD 5	1.54 ± 0.21 (5)	1.25 ± 0.19 (3)	1.23 ± 0.01 (2)	1.24 ± 0.16 (4) *

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	Phase Day	Treatment Groups (mg/kg)			
		4	12	37	111
Percent of Control		184.9	149.3	147.3	148.5
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	9.05 ± 0.73 (5)	9.28 ± 0.23 (3)	8.76 ± 2.58 (2)	8.10 ± 0.30 (4)
Percent of Control		115.1	118.0	111.4	103.0
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.42 ± 0.03 (5)	0.36 ± 0.03 (3)	0.47 ± 0.34 (2)	0.43 ± 0.11 (4)
Percent of Control		121.7	103.4	134.8	123.2
Basophils (10 <sup>3</sup> /uL)	SD 5	0.02 ± 0.00 (5)	0.02 ± 0.01 (3)	0.02 ± 0.01 (2)	0.02 ± 0.00 (4)
Percent of Control		82.5	75.0	56.3	65.6
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.12 ± 0.03 (5)	0.06 ± 0.02 (3)	0.20 ± 0.14 (2)	0.07 ± 0.02 (4)
Percent of Control		124.3	67.9	214.3	72.3
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.01 (5)	0.09 ± 0.02 (3)	0.10 ± 0.05 (2)	0.05 ± 0.00 (4)
Percent of Control		156.9	133.3	146.2	76.9

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Lab: Battelle

Female: Core Animals

	Phase Day	Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
Hematocrit (%)	SD 5	46.3 ± 0.5 (8)	49.9 ± 3.0 (5)	47.7 ± 0.9 (5)	46.9 ± 1.0 (3)
Percent of Control			107.9	103.1	101.3
Manual Hematocrit (%)	SD 5	44.6 ± 0.5 (8) **	47.4 ± 2.7 (5)	45.0 ± 0.7 (5)	44.3 ± 0.9 (3)
Percent of Control			106.2	100.8	99.3
Hemoglobin (g/dL)	SD 5	14.9 ± 0.2 (8)	15.0 ± 0.8 (5)	14.5 ± 0.2 (5)	14.2 ± 0.3 (3)
Percent of Control			100.8	97.3	95.1
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.68 ± 0.09 (8) *	8.27 ± 0.48 (5)	7.85 ± 0.19 (5)	7.80 ± 0.07 (3)
Percent of Control			107.8	102.3	101.6
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	195.2 ± 14.2 (8)	159.5 ± 14.8 (5)	230.1 ± 17.8 (5)	207.9 ± 11.0 (3)
Percent of Control			81.7	117.9	106.5
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (8)	0.00 ± 0.00 (5)	0.00 ± 0.00 (5)	0.00 ± 0.00 (3)
Mean Cell Volume (fL)	SD 5	60.3 ± 0.5 (8)	60.3 ± 0.1 (5)	60.7 ± 0.4 (5)	60.1 ± 0.9 (3)
Percent of Control			100.0	100.7	99.6
Mean Cell Hemoglobin (pg)	SD 5	19.4 ± 0.2 (8)	18.2 ± 0.1 (5) *	18.5 ± 0.2 (5)	18.2 ± 0.4 (3)
Percent of Control			93.5	95.0	93.5
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	32.2 ± 0.3 (8)	30.1 ± 0.3 (5) *	30.4 ± 0.2 (5)	30.3 ± 0.8 (3)
Percent of Control			93.5	94.4	94.0
Platelets (10 <sup>3</sup> /uL)	SD 5	802 ± 42 (8)	967 ± 76 (5)	933 ± 83 (5)	1038 ± 61 (3)
Percent of Control			120.6	116.3	129.3
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	8.93 ± 1.02 (8)	8.55 ± 1.05 (5)	7.51 ± 0.58 (5)	7.69 ± 0.24 (3)
Percent of Control			95.8	84.2	86.2
Neutrophils (10 <sup>3</sup> /uL)	SD 5	0.83 ± 0.19 (8)	0.62 ± 0.08 (5)	0.69 ± 0.11 (5)	0.63 ± 0.12 (3)

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	Phase Day	Treatment Groups (mg/kg)			
		0	0.15	0.5	1.4
Percent of Control			75.4	83.6	76.1
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	7.65 ± 0.81 (8)	7.55 ± 0.99 (5)	6.48 ± 0.52 (5)	6.67 ± 0.39 (3)
Percent of Control			98.6	84.7	87.2
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.26 ± 0.05 (8)	0.23 ± 0.04 (5)	0.18 ± 0.03 (5)	0.24 ± 0.03 (3)
Percent of Control			87.2	67.5	92.3
Basophils (10 <sup>3</sup> /uL)	SD 5	0.01 ± 0.01 (8)	0.03 ± 0.01 (5)	0.03 ± 0.00 (5)	0.01 ± 0.00 (3)
Percent of Control			189.1	203.6	97.0
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.01 (8) *	0.07 ± 0.01 (5)	0.09 ± 0.00 (5)	0.08 ± 0.00 (3)
Percent of Control			74.8	95.6	86.6
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.07 ± 0.01 (8)	0.05 ± 0.01 (5)	0.05 ± 0.01 (5)	0.05 ± 0.01 (3)
Percent of Control			71.7	63.4	64.4

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	Phase Day	Treatment Groups (mg/kg)			
		4	12	37	111
Hematocrit (%)	SD 5	45.2 ± 0.7 (3)	46.6 ± 1.3 (4)	46.4 ± 0.6 (4)	44.8 ± 0.3 (5)
Percent of Control		97.7	100.6	100.3	96.8
Manual Hematocrit (%)	SD 5	44.3 ± 0.5 (4)	43.5 ± 0.6 (4)	43.0 ± 0.0 (4) *	42.6 ± 0.7 (5) *
Percent of Control		99.2	97.5	96.4	95.5
Hemoglobin (g/dL)	SD 5	14.7 ± 0.3 (3)	14.1 ± 0.3 (4)	14.2 ± 0.3 (4)	14.5 ± 0.2 (5)
Percent of Control		98.4	94.6	95.1	97.3
Erythrocytes (10 <sup>6</sup> /uL)	SD 5	7.46 ± 0.19 (3)	7.62 ± 0.22 (4)	7.63 ± 0.14 (4)	7.38 ± 0.13 (5)
Percent of Control		97.2	99.2	99.3	96.2
Reticulocytes (10 <sup>3</sup> /uL)	SD 5	177.6 ± 21.4 (3)	211.8 ± 21.5 (4)	205.5 ± 8.2 (4)	167.0 ± 10.0 (5)
Percent of Control		91.0	108.5	105.3	85.5
Nucleated Red Blood Cells (/100 WBC)	SD 5	0.00 ± 0.00 (4)	0.00 ± 0.00 (4)	0.00 ± 0.00 (4)	0.00 ± 0.00 (5)
Mean Cell Volume (fL)	SD 5	60.6 ± 0.6 (3)	61.2 ± 0.4 (4)	60.9 ± 0.5 (4)	60.8 ± 0.8 (5)
Percent of Control		100.4	101.5	100.9	100.8
Mean Cell Hemoglobin (pg)	SD 5	19.7 ± 0.1 (3)	18.5 ± 0.2 (4)	18.6 ± 0.6 (4)	19.7 ± 0.2 (5)
Percent of Control		101.2	95.3	95.6	101.1
Mean Cell Hemoglobin Concentration (g/dL)	SD 5	32.5 ± 0.1 (3)	30.3 ± 0.2 (4)	30.5 ± 0.7 (4)	32.3 ± 0.3 (5)
Percent of Control		100.8	94.1	94.8	100.3
Platelets (10 <sup>3</sup> /uL)	SD 5	869 ± 77 (3)	958 ± 77 (4)	1073 ± 46 (4) *	921 ± 26 (5)
Percent of Control		108.3	119.4	133.7	114.7
White Blood Cells (10 <sup>3</sup> /uL)	SD 5	10.92 ± 1.90 (3)	8.42 ± 0.20 (4)	8.23 ± 0.74 (4)	9.38 ± 0.53 (5)
Percent of Control		122.3	94.3	92.2	105.1
Neutrophils (10 <sup>3</sup> /uL)	SD 5	0.99 ± 0.29 (3)	1.12 ± 0.25 (4)	0.71 ± 0.17 (4)	0.77 ± 0.08 (5)



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		4	12	37	111
Percent of Control		120.0	135.3	85.5	93.1
Lymphocytes (10 <sup>3</sup> /uL)	SD 5	9.35 ± 1.67 (3)	6.92 ± 0.23 (4)	7.07 ± 0.52 (4)	8.11 ± 0.57 (5)
Percent of Control		122.2	90.5	92.4	106.1
Monocytes (10 <sup>3</sup> /uL)	SD 5	0.38 ± 0.07 (3)	0.22 ± 0.03 (4)	0.31 ± 0.08 (4)	0.35 ± 0.06 (5)
Percent of Control		145.3	81.5	115.6	134.2
Basophils (10 <sup>3</sup> /uL)	SD 5	0.01 ± 0.00 (3)	0.02 ± 0.00 (4)	0.02 ± 0.00 (4)	0.01 ± 0.00 (5)
Percent of Control		48.5	127.3	145.5	43.6
Eosinophils (10 <sup>3</sup> /uL)	SD 5	0.10 ± 0.02 (3)	0.10 ± 0.04 (4)	0.07 ± 0.01 (4)	0.06 ± 0.01 (5)
Percent of Control		100.4	101.3	67.5	64.4
Large Unstained Cells (10 <sup>3</sup> /uL)	SD 5	0.09 ± 0.02 (3)	0.05 ± 0.00 (4)	0.07 ± 0.01 (4)	0.07 ± 0.00 (5)
Percent of Control		119.5	62.1	89.7	96.6

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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

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

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 \*\***