

**Study Number:** C11042B-01  
**Test Type:** TOX with Perinatal Exposure  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Harlan Sprague Dawley

**PA43: Hematology Summary**  
**Test Compound:** Triphenyl Phosphate (TPHP)  
**CAS Number:** 115-86-6

**Date Report Requested:** 05/22/2026  
**Time Report Requested:** 11:06:03  
**Lab:** Battelle

**Study Number:** C11042B-01  
**Study Sex:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.7.8  
**Stat Version:** 2023.02.27S

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F1 Male: Subchronic Cohort

	Phase Day	Treatment Groups (ppm)			
		0	30	100	300
Hematocrit (%)	PND 127 - 129	51.2 ± 0.6 (9)	51.2 ± 0.4 (9)	51.6 ± 1.1 (5)	50.9 ± 0.8 (7)
Percent of Control			100.0	100.6	99.3
Manual Hematocrit (%)	PND 127 - 129	48.9 ± 1.2 (9)	47.4 ± 0.6 (9)	47.8 ± 1.2 (5)	47.3 ± 0.5 (7)
Percent of Control			97.0	97.8	96.7
Hemoglobin (g/dL)	PND 127 - 129	15.7 ± 0.2 (9)	15.8 ± 0.1 (9)	15.7 ± 0.3 (5)	15.6 ± 0.3 (7)
Percent of Control			100.8	99.7	99.2
Erythrocytes (10 <sup>6</sup> /uL)	PND 127 - 129	8.93 ± 0.13 (9)	8.91 ± 0.10 (9)	8.97 ± 0.06 (5)	8.92 ± 0.17 (7)
Percent of Control			99.8	100.5	99.9
Reticulocytes (10 <sup>3</sup> /uL)	PND 127 - 129	234.3 ± 10.6 (9)	214.1 ± 6.3 (9)	203.4 ± 19.9 (5)	215.2 ± 11.0 (7)
Percent of Control			91.4	86.8	91.8
Mean Cell Volume (fL)	PND 127 - 129	57.4 ± 0.6 (9)	57.5 ± 0.4 (9)	57.4 ± 1.0 (5)	57.1 ± 0.9 (7)
Percent of Control			100.2	100.0	99.5
Mean Cell Hemoglobin (pg)	PND 127 - 129	17.6 ± 0.1 (9)	17.7 ± 0.1 (9)	17.4 ± 0.2 (5)	17.5 ± 0.3 (7)
Percent of Control			101.0	99.3	99.5
Mean Cell Hemoglobin Concentration (g/dL)	PND 127 - 129	30.6 ± 0.2 (9) *	30.9 ± 0.2 (9)	30.4 ± 0.3 (5)	30.6 ± 0.1 (7)
Percent of Control			100.7	99.2	99.9
Platelets (10 <sup>3</sup> /uL)	PND 127 - 129	799 ± 67 (9)	704 ± 81 (9)	739 ± 41 (5)	597 ± 98 (7)
Percent of Control			88.1	92.5	74.7

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**F1 Male: Subchronic Cohort**

	Phase Day	Treatment Groups (ppm)			
		0	30	100	300
White Blood Cells (10 <sup>3</sup> /uL)	PND 127 - 129	8.70 ± 0.96 (9)	8.54 ± 1.06 (9)	8.82 ± 1.07 (5)	9.58 ± 1.32 (7)
Percent of Control			98.3	101.4	110.1
Neutrophils (10 <sup>3</sup> /uL)	PND 127 - 129	0.94 ± 0.12 (9)	1.35 ± 0.27 (9)	1.19 ± 0.18 (5)	1.49 ± 0.24 (7)
Percent of Control			143.1	126.2	158.8
Lymphocytes (10 <sup>3</sup> /uL)	PND 127 - 129	7.38 ± 0.88 (9)	6.74 ± 0.88 (9)	7.16 ± 1.08 (5)	7.62 ± 1.15 (7)
Percent of Control			91.4	97.0	103.3
Monocytes (10 <sup>3</sup> /uL)	PND 127 - 129	0.18 ± 0.02 (9)	0.20 ± 0.05 (9)	0.19 ± 0.02 (5)	0.18 ± 0.03 (7)
Percent of Control			112.2	106.5	96.4
Basophils (10 <sup>3</sup> /uL)	PND 127 - 129	0.03 ± 0.01 (9)	0.04 ± 0.01 (9)	0.03 ± 0.01 (5)	0.03 ± 0.01 (7)
Percent of Control			117.9	90.0	101.0
Eosinophils (10 <sup>3</sup> /uL)	PND 127 - 129	0.09 ± 0.01 (9)	0.15 ± 0.03 (9)	0.18 ± 0.02 (5)	0.18 ± 0.05 (7)
Percent of Control			171.4	215.1	205.4
Large Unstained Cells (10 <sup>3</sup> /uL)	PND 127 - 129	0.08 ± 0.02 (9)	0.07 ± 0.01 (9)	0.07 ± 0.01 (5)	0.08 ± 0.02 (7)
Percent of Control			84.9	86.3	96.9

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**F1 Male: Subchronic Cohort**

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	Phase Day	Treatment Groups (ppm)	
		1000	3000
Hematocrit (%)	PND 127 - 129	51.2 ± 0.9 (10)	52.1 ± 0.8 (9)
Percent of Control		99.9	101.7
Manual Hematocrit (%)	PND 127 - 129	47.9 ± 0.5 (10)	48.1 ± 0.8 (9)
Percent of Control		98.0	98.4
Hemoglobin (g/dL)	PND 127 - 129	15.7 ± 0.3 (10)	15.7 ± 0.2 (9)
Percent of Control		99.7	99.9
Erythrocytes (10 <sup>6</sup> /uL)	PND 127 - 129	8.90 ± 0.12 (10)	9.05 ± 0.16 (9)
Percent of Control		99.7	101.4
Reticulocytes (10 <sup>3</sup> /uL)	PND 127 - 129	222.5 ± 7.1 (10)	210.8 ± 7.1 (9)
Percent of Control		94.9	90.0
Mean Cell Volume (fL)	PND 127 - 129	57.5 ± 0.3 (10)	57.6 ± 0.5 (9)
Percent of Control		100.1	100.3
Mean Cell Hemoglobin (pg)	PND 127 - 129	17.6 ± 0.1 (10)	17.3 ± 0.2 (9)
Percent of Control		100.1	98.7
Mean Cell Hemoglobin Concentration (g/dL)	PND 127 - 129	30.6 ± 0.2 (10)	30.1 ± 0.2 (9)
Percent of Control		99.8	98.3
Platelets (10 <sup>3</sup> /uL)	PND 127 - 129	761 ± 50 (10)	745 ± 41 (9)
Percent of Control		95.2	93.2

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**F1 Male: Subchronic Cohort**

	Phase Day	Treatment Groups (ppm)	
		1000	3000
White Blood Cells (10 <sup>3</sup> /uL)	PND 127 - 129	7.99 ± 0.68 (10)	9.60 ± 0.54 (9)
Percent of Control		91.9	110.4
Neutrophils (10 <sup>3</sup> /uL)	PND 127 - 129	1.54 ± 0.38 (10)	1.32 ± 0.23 (9)
Percent of Control		163.1	140.4
Lymphocytes (10 <sup>3</sup> /uL)	PND 127 - 129	6.06 ± 0.44 (10)	7.89 ± 0.43 (9)
Percent of Control		82.1	106.9
Monocytes (10 <sup>3</sup> /uL)	PND 127 - 129	0.18 ± 0.02 (10)	0.19 ± 0.01 (9)
Percent of Control		99.3	103.0
Basophils (10 <sup>3</sup> /uL)	PND 127 - 129	0.02 ± 0.00 (10)	0.02 ± 0.00 (9)
Percent of Control		67.5	78.6
Eosinophils (10 <sup>3</sup> /uL)	PND 127 - 129	0.14 ± 0.04 (10)	0.10 ± 0.03 (9)
Percent of Control		160.1	122.1
Large Unstained Cells (10 <sup>3</sup> /uL)	PND 127 - 129	0.06 ± 0.01 (10)	0.07 ± 0.01 (9)
Percent of Control		76.4	82.2

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F1 Female: Subchronic Cohort

	Phase Day	Treatment Groups (ppm)			
		0	30	100	300
Hematocrit (%)	PND 126	47.9 ± 0.5 (9)	48.2 ± 0.6 (10)	46.9 ± 1.2 (10)	48.5 ± 0.7 (8)
Percent of Control			100.6	97.9	101.2
Manual Hematocrit (%)	PND 126	45.7 ± 0.6 (9) **	46.4 ± 0.4 (10)	44.3 ± 0.9 (10)	45.1 ± 0.5 (8)
Percent of Control			101.6	97.0	98.8
Hemoglobin (g/dL)	PND 126	14.9 ± 0.1 (9)	14.9 ± 0.2 (10)	14.8 ± 0.3 (10)	14.8 ± 0.2 (8)
Percent of Control			100.4	99.3	99.5
Erythrocytes (10 <sup>6</sup> /uL)	PND 126	8.31 ± 0.07 (9)	8.25 ± 0.13 (10)	8.01 ± 0.16 (10)	8.17 ± 0.12 (8)
Percent of Control			99.2	96.4	98.2
Reticulocytes (10 <sup>3</sup> /uL)	PND 126	209.1 ± 14.6 (9)	198.8 ± 12.6 (10)	221.5 ± 10.4 (10)	227.7 ± 16.9 (8)
Percent of Control			95.0	105.9	108.9
Mean Cell Volume (fL)	PND 126	57.6 ± 0.3 (9) *	58.4 ± 0.5 (10)	58.4 ± 0.6 (10)	59.4 ± 0.3 (8)
Percent of Control			101.5	101.5	103.1
Mean Cell Hemoglobin (pg)	PND 126	17.9 ± 0.1 (9)	18.1 ± 0.2 (10)	18.4 ± 0.1 (10)	18.1 ± 0.1 (8)
Percent of Control			101.1	102.9	101.1
Mean Cell Hemoglobin Concentration (g/dL)	PND 126	31.1 ± 0.1 (9) **	31.0 ± 0.2 (10)	31.5 ± 0.3 (10)	30.6 ± 0.2 (8)
Percent of Control			99.7	101.5	98.4
Platelets (10 <sup>3</sup> /uL)	PND 126	756 ± 42 (9)	806 ± 55 (10)	890 ± 113 (10)	779 ± 71 (8)
Percent of Control			106.7	117.8	103.2
White Blood Cells (10 <sup>3</sup> /uL)	PND 126	5.59 ± 0.39 (9)	5.49 ± 0.27 (10)	6.74 ± 1.21 (10)	5.09 ± 0.60 (8)
Percent of Control			98.2	120.6	91.1
Neutrophils (10 <sup>3</sup> /uL)	PND 126	0.95 ± 0.15 (9)	0.61 ± 0.07 (10)	1.17 ± 0.28 (10)	0.57 ± 0.06 (8)
Percent of Control			64.2	123.2	59.7

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**F1 Female: Subchronic Cohort**

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	Phase Day	Treatment Groups (ppm)			
		0	30	100	300
Lymphocytes (10 <sup>3</sup> /uL) Percent of Control	PND 126	4.29 ± 0.41 (9)	4.65 ± 0.24 (10) 108.3	5.24 ± 0.90 (10) 122.0	4.32 ± 0.55 (8) 100.7
Monocytes (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.12 ± 0.03 (9)	0.10 ± 0.01 (10) 80.7	0.16 ± 0.05 (10) 136.7	0.09 ± 0.01 (8) 75.4
Basophils (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.02 ± 0.00 (9)	0.01 ± 0.00 (10) 83.6	0.02 ± 0.01 (10) 135.0	0.01 ± 0.00 (8) 48.2
Eosinophils (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.18 ± 0.05 (9)	0.09 ± 0.01 (10) 50.0	0.11 ± 0.03 (10) 61.7	0.07 ± 0.01 (8) 40.3
Large Unstained Cells (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.04 ± 0.01 (9)	0.04 ± 0.00 (10) 92.4	0.05 ± 0.01 (10) 116.8	0.04 ± 0.01 (8) 85.1

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	Phase Day	Treatment Groups (ppm)	
		1000	3000
Hematocrit (%)	PND 126	49.1 ± 0.4 (10)	48.3 ± 0.5 (10)
Percent of Control		102.6	100.8
Manual Hematocrit (%)	PND 126	44.5 ± 0.5 (10)	43.1 ± 0.2 (10) **
Percent of Control		97.4	94.4
Hemoglobin (g/dL)	PND 126	15.1 ± 0.1 (10)	14.8 ± 0.2 (10)
Percent of Control		101.2	99.3
Erythrocytes (10 <sup>6</sup> /uL)	PND 126	8.22 ± 0.07 (10)	8.18 ± 0.07 (10)
Percent of Control		98.9	98.4
Reticulocytes (10 <sup>3</sup> /uL)	PND 126	231.7 ± 16.3 (10)	218.8 ± 20.1 (10)
Percent of Control		110.8	104.6
Mean Cell Volume (fL)	PND 126	59.8 ± 0.4 (10) **	59.0 ± 0.5 (10)
Percent of Control		103.8	102.5
Mean Cell Hemoglobin (pg)	PND 126	18.3 ± 0.1 (10)	18.0 ± 0.2 (10)
Percent of Control		102.3	100.7
Mean Cell Hemoglobin Concentration (g/dL)	PND 126	30.6 ± 0.1 (10)	30.6 ± 0.1 (10)
Percent of Control		98.7	98.5
Platelets (10 <sup>3</sup> /uL)	PND 126	887 ± 53 (10)	784 ± 54 (10)
Percent of Control		117.4	103.7
White Blood Cells (10 <sup>3</sup> /uL)	PND 126	5.08 ± 0.42 (10)	5.90 ± 0.66 (10)
Percent of Control		90.9	105.5
Neutrophils (10 <sup>3</sup> /uL)	PND 126	0.90 ± 0.27 (10)	0.86 ± 0.12 (10)
Percent of Control		95.0	91.2

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**F1 Female: Subchronic Cohort**

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	Phase Day	Treatment Groups (ppm)	
		1000	3000
Lymphocytes (10 <sup>3</sup> /uL) Percent of Control	PND 126	3.97 ± 0.29 (10) 92.4	4.76 ± 0.60 (10) 110.8
Monocytes (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.09 ± 0.02 (10) 79.0	0.10 ± 0.01 (10) 84.9
Basophils (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.01 ± 0.00 (10) 51.4	0.01 ± 0.00 (10) 70.7
Eosinophils (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.08 ± 0.01 (10) 45.6	0.13 ± 0.02 (10) 69.4
Large Unstained Cells (10 <sup>3</sup> /uL) Percent of Control	PND 126	0.03 ± 0.00 (10) 82.7	0.04 ± 0.01 (10) 104.6

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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.

Statistical analysis was 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  $p \leq 0.01$

\* Statistically significant at  $p \leq 0.05$

PND = Postnatal Day

SEM = Standard Error of the Mean

Hematology data not reported was removed as an outlier, or was due to pre-analytical or analytical conditions or errors including but not limited to: short sample, quantity not sufficient, or clotted sample.

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