

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

**R39: Summary of Litter Data**  
**Test Compound:** Triphenyl Phosphate (TPHP)  
**CAS Number:** 115-86-6

**Date Report Requested:** 04/22/2026  
**Time Report Requested:** 11:26:24  
**Lab:** Battelle

**Study Number:** C11042B-01  
**Study Sex:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.7.6  
**Stat Version:** 2022.10.14S

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**F0 Females**

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>30</b>	<b>100</b>	<b>300</b>	<b>1000</b>	<b>3000</b>
Implantations per Female	14.11 ± 0.39 (19) **	13.57 ± 0.43 (28)	13.48 ± 0.34 (27)	13.83 ± 0.64 (23)	12.88 ± 0.59 (25)	11.86 ± 0.63 (28) *
Total Pups per Litter (PND 0)	13.0 ± 0.4 (19)	12.0 ± 0.5 (28)	12.1 ± 0.4 (27)	12.8 ± 0.6 (23)	11.2 ± 0.7 (25)	10.8 ± 0.7 (28)
Percent Post-Implantation Loss	7.64 ± 2.19 (19)	11.00 ± 2.67 (28)	9.59 ± 2.43 (27)	6.79 ± 1.89 (23)	14.42 ± 3.69 (25)	10.43 ± 2.56 (28)

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F1 Pups from F0 Females

	Treatment Groups (ppm)					
	0	30	100	300	1000	3000
No. F0 Dams						
PND 0	19	28	27	23	25	28
Total No. Pups						
PND 0	247	337	328	295	280	302
Total Pups per Litter						
PND 0	13.0 ± 0.4 (19)	12.0 ± 0.5 (28)	12.1 ± 0.4 (27)	12.8 ± 0.6 (23)	11.2 ± 0.7 (25)	10.8 ± 0.7 (28)
Total No. Live						
PND 0	243	325	322	289	271	292
Live per Litter						
PND 0	12.8 ± 0.4 (19)	11.6 ± 0.5 (28)	11.9 ± 0.5 (27)	13.1 ± 0.3 (22)	10.8 ± 0.7 (25)	10.4 ± 0.7 (28)
PND 1	12.8 ± 0.4 (19)	11.3 ± 0.5 (28)	12.0 ± 0.5 (26)	12.5 ± 0.6 (22)	10.6 ± 0.8 (25)	10.6 ± 0.6 (27)
PND 4	12.7 ± 0.5 (19)	11.4 ± 0.5 (27)	11.9 ± 0.5 (26)	12.9 ± 0.3 (21)	10.6 ± 0.8 (25)	10.5 ± 0.6 (27)
PND 4 post-cull	8.0 ± 0.0 (19) **	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.2 ± 0.4 (25) *	7.3 ± 0.3 (27) *
PND 7	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.2 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 10	7.9 ± 0.1 (19) *	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 13	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 16	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 19	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 21	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 25	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
PND 28	7.9 ± 0.1 (19)	7.8 ± 0.1 (24)	7.8 ± 0.1 (23)	8.0 ± 0.0 (21)	7.1 ± 0.4 (25)	7.3 ± 0.3 (27)
Dead per Litter						
PND 0	0.21 ± 0.10 (19)	0.43 ± 0.14 (28)	0.22 ± 0.10 (27)	0.26 ± 0.09 (23)	0.36 ± 0.11 (25)	0.36 ± 0.18 (28)
PND 1 - 4	0.05 ± 0.05 (19)	0.57 ± 0.26 (28)	0.48 ± 0.33 (27)	0.82 ± 0.68 (22)	0.28 ± 0.21 (25)	0.29 ± 0.11 (28)
PND 5 - 28	0.11 ± 0.07 (19)	0.00 ± 0.00 (24)	0.04 ± 0.04 (23)	0.00 ± 0.00 (21)	0.04 ± 0.04 (25)	0.04 ± 0.04 (27)
Number of Dead						
PND 0	4 (4)	12 (9)	6 (5)	6 (6)	9 (8)	10 (4)

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**F1 Pups from F0 Females**

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**Treatment Groups (ppm)**

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	<b>0</b>	<b>30</b>	<b>100</b>	<b>300</b>	<b>1000</b>	<b>3000</b>
PND 1 - 4	1 (1)	16 (8)	13 (5)	18 (4)	7 (2)	8 (6)
PND 5 - 28	2 (2)	0 (0)	1 (1)	0 (0)	1 (1)	1 (1)
% Live Male Pups per Litter						
PND 0	50.29 ± 3.03 (19)	55.29 ± 3.04 (28)	49.52 ± 2.49 (27)	50.19 ± 2.41 (22)	49.87 ± 3.54 (25)	50.06 ± 3.65 (28)
Survival Ratio						
PND 0	0.98 ± 0.01 (19)	0.96 ± 0.01 (28)	0.98 ± 0.01 (27)	0.94 ± 0.04 (23)	0.96 ± 0.01 (25)	0.96 ± 0.02 (28)
PND 1 - 4	0.99 ± 0.01 (19)	0.94 ± 0.04 (28)	0.95 ± 0.04 (27)	0.94 ± 0.05 (22)	0.97 ± 0.03 (25)	0.95 ± 0.04 (28)
PND 5 - 28	0.99 ± 0.01 (19)	1.00 ± 0.00 (24)	0.99 ± 0.01 (23)	1.00 ± 0.00 (21)	1.00 ± 0.01 (25)	0.99 ± 0.01 (27)

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LEGEND

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For the endpoints of Implantations per Female, Total Pups per Litter (PND 0), and Percent Post-Implantation Loss, data are displayed as mean  $\pm$  SEM (N). For the endpoints of Total Pups per Litter, Live per Litter, Dead per Litter, % Live Male Pups per Litter, and Survival Ratio, data are displayed as the mean  $\pm$  SEM of litter values (number of litters contributing).

For Number of Dead, data are displayed as the number of pups (number of litters contributing dead pups).

Calculated values do not include non-pregnant animals or those that did not survive to terminal sacrifice.

All calculations are based on the last litter observation of the day

Litters removed before the last interval day were not included in the Survival Ratio, Number Dead or Total Dead calculations.

Post-implantation loss is calculated as  $((\text{Implantations per Female} - \text{Total Pups per Litter (PND 0)}) / \text{Implantations per Female}) * 100$

Survival ratio on PND 0 is live pup count at the last PND 0 litter observation relative to the total number of pups upon completion of parturition.

Implantations per female, percent post-implantation loss, total pups per litter, live per litter, dead per litter, % live male pups per litter, and survival ratios were analyzed using Jonckheere's test for trend and Shirley's or Dunn's methods for pairwise comparison of treatment groups to controls.

All statistical results are reported using two-sided tests.

No trend or pairwise tests were conducted on the Number of F0 Dams, Total Number of Pups, Total Number of Live, or Number of Dead endpoints.

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  $p \leq 0.01$

PND = Postnatal Day

SEM = Standard Error of the Mean

Litters were culled to 8 pups (4 males and 4 females) when possible.

Three litters from each of the 30 ppm and 100 ppm dose groups were removed on PND 4 for biosampling.

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