

Study Number: R10997
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Diisobutyl Phthalate
CAS Number: 84-69-5

Date Report Requested: 12/03/2018
Time Report Requested: 08:53:13
Lab: RTI

C Number: R10997
Study Gender: Both
PWG Approval Date See web page for date of PWG Approval

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F0 Male

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
SD		Eye Discharge Bilateral; Red	0 / 23	0 / 23	1 / 23 SD 141	0 / 23
SD		Eye Discharge Left; Brown	1 / 23 SD 35	0 / 23	0 / 23	0 / 23
SD		Eye Discharge Right; Brown	1 / 23 SD 43	1 / 23 SD 43	0 / 23	0 / 23
SD		Sore(s) On Body Nose/Snout	1 / 23 SD 97	0 / 23	0 / 23	0 / 23

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	A	Alopecia Left Forelimb	1 / 21 GD 9	0 / 21	0 / 19	0 / 22
GD	A	Alopecia Right Forelimb	1 / 21 GD 9	0 / 21	0 / 19	0 / 22
GD	A	Eye Discharge Bilateral; Black	0 / 21	0 / 21	1 / 19 GD 15	0 / 22
GD	A	Eye Discharge Left; Red	0 / 21	1 / 21 GD 21	0 / 19	0 / 22
LD	A	Alopecia Left Forelimb	1 / 21 LD 0	0 / 23	0 / 21	0 / 22
LD	A	Alopecia Right Forelimb	1 / 21 LD 0	0 / 23	0 / 21	0 / 22
GD	B	Alopecia Left Fore Paw	0 / 18	0 / 21	0 / 19	1 / 22 GD 2
GD	B	Alopecia Left Forelimb	1 / 18 GD 0	0 / 21	0 / 19	0 / 22
GD	B	Alopecia Right Forelimb	1 / 18 GD 0	0 / 21	0 / 19	0 / 22
GD	B	Eye Discharge Left; Red	0 / 18	2 / 21 GD 18	0 / 19	0 / 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	B	Eye Discharge Right; Red	0 / 18	1 / 21 GD 3	0 / 19	0 / 22
GD	B	Head Tilt	0 / 18	1 / 21 GD 11	0 / 19	0 / 22
LD	B	Alopecia Left Fore Paw	0 / 21	0 / 23	0 / 21	1 / 22 LD 0
LD	B	Alopecia Left Forelimb	1 / 21 LD 0	0 / 23	0 / 21	0 / 22
LD	B	Alopecia Right Forelimb	1 / 21 LD 0	0 / 23	0 / 21	0 / 22
LD	B	Head Tilt	0 / 21	1 / 23 LD 0	0 / 21	0 / 22
GD	C	Alopecia Left Fore Paw	0 / 21	0 / 20	0 / 20	1 / 20 GD 0
GD	C	Alopecia Left Forelimb	1 / 21 GD 0	0 / 20	0 / 20	0 / 20
GD	C	Alopecia Right Forelimb	1 / 21 GD 0	0 / 20	0 / 20	0 / 20
GD	C	Delivering	0 / 21	0 / 20	0 / 20	1 / 20 GD 22

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	C	Eye Discharge Left; Black	0 / 21	1 / 20 GD 21	0 / 20	0 / 20
GD	C	Eye Discharge Left; Red	0 / 21	0 / 20	0 / 20	1 / 20 GD 18
GD	C	Eye Discolored Bilateral; White	0 / 21	0 / 20	0 / 20	1 / 20 GD 22
GD	C	Eye Opacity Right	0 / 21	1 / 20 GD 7	0 / 20	0 / 20
GD	C	Head Tilt	0 / 21	1 / 20 GD 0	0 / 20	0 / 20
GD	C	Mass Right Forelimb	0 / 21	0 / 20	1 / 20 GD 6	0 / 20
GD	C	Mass Right Hindlimb	1 / 21 GD 13	0 / 20	0 / 20	0 / 20
GD	C	Vaginal Discharge Red	0 / 21	0 / 20	0 / 20	1 / 20 GD 22
LD	C	Alopecia Left Forelimb	1 / 21 LD 0	0 / 22	0 / 20	0 / 21
LD	C	Alopecia Right Forelimb	1 / 21 LD 0	0 / 22	0 / 20	0 / 21

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
LD	C	Eye Discharge Left; Black	1 / 21 LD 13	2 / 22 LD 0	0 / 20	1 / 21 LD 4
LD	C	Eye Discharge Left; Brown	1 / 21 LD 18	0 / 22	1 / 20 LD 9	0 / 21
LD	C	Eye Discharge Left; Red	0 / 21	1 / 22 LD 4	0 / 20	1 / 21 LD 17
LD	C	Eye Discharge Right; Black	1 / 21 LD 10	0 / 22	0 / 20	0 / 21
LD	C	Eye Discolored Bilateral; White	0 / 21	0 / 22	0 / 20	1 / 21 LD 0
LD	C	Eye Opacity Right	0 / 21	1 / 22 LD 0	0 / 20	0 / 21
LD	C	Head Tilt	0 / 21	1 / 22 LD 0	0 / 20	0 / 21
LD	C	Mass Abdomen	1 / 21 LD 2	0 / 22	0 / 20	0 / 21
LD	C	Mass Right Hindlimb	1 / 21 LD 0	0 / 22	0 / 20	0 / 21
LD	C	Scab(s) Face	1 / 21 LD 5	0 / 22	0 / 20	0 / 21

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
SD		Alopecia Left Fore Paw	0 / 23	0 / 23	0 / 23	1 / 23 SD 88
SD		Alopecia Left Forelimb	1 / 23 SD 43	0 / 23	0 / 23	0 / 23
SD		Alopecia Right Forelimb	1 / 23 SD 43	0 / 23	0 / 23	0 / 23
SD		Dehydrated	0 / 23	1 / 23 SD 147	0 / 23	0 / 23
SD		Edema	0 / 23	0 / 23	0 / 23	2 / 23 SD 146
SD		Eye Discharge Bilateral; Brown	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Eye Discharge Left; Black	0 / 23	1 / 23 SD 98	0 / 23	0 / 23
SD		Eye Discharge Left; Brown	0 / 23	2 / 23 SD 58	0 / 23	1 / 23 SD 148
SD		Eye Discharge Left; Clear	0 / 23	1 / 23 SD 154	0 / 23	0 / 23
SD		Eye Discharge Left; Red	0 / 23	0 / 23	0 / 23	1 / 23 SD 144

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
SD		Eye Discharge Right; Brown	1 / 23 SD 154	0 / 23	0 / 23	0 / 23
SD		Eye Discharge Right; Red	0 / 23	2 / 23 SD 96	0 / 23	0 / 23
SD		Eye Opacity Right	0 / 23	1 / 23 SD 144	0 / 23	0 / 23
SD		Eye Squinting Bilateral	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Feces Few	0 / 23	0 / 23	1 / 23 SD 168	0 / 23
SD		Head Tilt	0 / 23	1 / 23 SD 87	0 / 23	0 / 23
SD		Hunched	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Hypoactive	0 / 23	1 / 23 SD 147	1 / 23 SD 81	0 / 23
SD		Mass Abdomen	1 / 23 SD 144	0 / 23	1 / 23 SD 148	0 / 23
SD		Mass Anogenital Area	1 / 23 SD 154	0 / 23	0 / 23	0 / 23

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
SD		Mass Chest	0 / 23	1 / 23 SD 146	1 / 23 SD 147	0 / 23
SD		Mass Left Hindlimb	1 / 23 SD 154	0 / 23	0 / 23	0 / 23
SD		Mass Neck	0 / 23	2 / 23 SD 146	0 / 23	0 / 23
SD		Mass Right Shoulder	0 / 23	0 / 23	1 / 23 SD 48	0 / 23
SD		Nasal Discharge Brown	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Pale	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Piloerection	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Scab(s) Face	1 / 23 SD 155	0 / 23	0 / 23	0 / 23
SD		Scab(s) Right Shoulder	0 / 23	0 / 23	1 / 23 SD 48	0 / 23
SD		Sore(s) On Body Left Hindlimb	0 / 23	0 / 23	0 / 23	1 / 23 SD 91

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F0 Female

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
SD		Sore(s) On Body Tail	0 / 23	0 / 23	1 / 23 SD 162	0 / 23
SD		Staining Left Eye; Red	0 / 23	1 / 23 SD 146	0 / 23	0 / 23
SD		Staining Nose/Snout; Red	0 / 23	1 / 23 SD 146	0 / 23	0 / 23
SD		Staining Right Eye; Red	0 / 23	1 / 23 SD 146	0 / 23	0 / 23
SD		Swelling Abdomen	0 / 23	1 / 23 SD 147	0 / 23	1 / 23 SD 146
SD		Urine Decreased	0 / 23	0 / 23	1 / 23 SD 81	0 / 23
SD		Vaginal Discharge Red	4 / 23 SD 26	0 / 23	3 / 23 SD 29	0 / 23

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F1 Male: All F1 Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Cold To Touch	0 / 91	0 / 72	0 / 86	1 / 80 PND 24
PND		Eye Discharge Bilateral; Brown	0 / 91	0 / 72	0 / 86	1 / 80 PND 28
PND		Eye Discharge Bilateral; Red	1 / 91 PND 56	0 / 72	1 / 86 PND 74	1 / 80 PND 57
PND		Eye Discharge Left; Black	1 / 91 PND 56	0 / 72	0 / 86	0 / 80
PND		Eye Discharge Left; Brown	1 / 91 PND 28	0 / 72	1 / 86 PND 63	1 / 80 PND 51
PND		Eye Discharge Left; Clear	0 / 91	0 / 72	0 / 86	1 / 80 PND 47
PND		Eye Discharge Right; Brown	0 / 91	0 / 72	1 / 86 PND 77	1 / 80 PND 50
PND		Eye Discolored Left; Brown	0 / 91	0 / 72	0 / 86	1 / 80 PND 63
PND		Gasping	0 / 91	0 / 72	0 / 86	1 / 80 PND 24
PND		Hypoactive	0 / 91	0 / 72	0 / 86	1 / 80 PND 24

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F1 Male: All F1 Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Loss of Righting Reflex	0 / 91	0 / 72	0 / 86	1 / 80 PND 24
PND		Pale	0 / 91	0 / 72	0 / 86	1 / 80 PND 24
PND		Prone	0 / 91	0 / 72	0 / 86	1 / 80 PND 24
PND		Tail Tip Missing	0 / 91	0 / 72	0 / 86	1 / 80 PND 22
PND		Testis Apparently Missing Left	1 / 91 PND 74	0 / 72	0 / 86	4 / 80 PND 30
PND		Testis Apparently Missing Right	0 / 91	1 / 72 PND 35	0 / 86	3 / 80 PND 56
PND		Testis Small Left	0 / 91	0 / 72	0 / 86	1 / 80 PND 74
PND		Thread-like Tail	0 / 91	0 / 72	1 / 86 PND 22	0 / 80

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Alopecia Back	0 / 69	0 / 81	1 / 89 PND 84	2 / 74 PND 66
PND		Eye Discharge Bilateral; Black	0 / 69	1 / 81 PND 45	0 / 89	0 / 74
PND		Eye Discharge Bilateral; Brown	0 / 69	3 / 81 PND 22	0 / 89	1 / 74 PND 28
PND		Eye Discharge Left; Black	2 / 69 PND 46	0 / 81	0 / 89	0 / 74
PND		Eye Discharge Left; Brown	1 / 69 PND 52	5 / 81 PND 22	0 / 89	0 / 74
PND		Eye Discharge Left; Clear	0 / 69	1 / 81 PND 63	0 / 89	0 / 74
PND		Eye Discharge Left; Red	0 / 69	1 / 81 PND 33	0 / 89	0 / 74
PND		Eye Discharge Right; Black	1 / 69 PND 70	0 / 81	0 / 89	0 / 74
PND		Eye Discharge Right; Brown	1 / 69 PND 57	2 / 81 PND 22	1 / 89 PND 70	0 / 74
PND		Eye Discharge Right; Red	0 / 69	0 / 81	1 / 89 PND 71	0 / 74

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F1 Female: All F1 Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Eye Sunken Bilateral	0 / 69	1 / 81 PND 24	0 / 89	0 / 74
PND		Rough Coat	0 / 69	1 / 81 PND 23	0 / 89	0 / 74
PND		Skin flap, fur covered Mouth, Bilateral	0 / 69	1 / 81 PND 22	0 / 89	0 / 74
PND		Sore(s) On Body Nose/Snout	1 / 69 PND 58	0 / 81	0 / 89	0 / 74
PND		Tail Damaged	0 / 69	1 / 81 PND 22	1 / 89 PND 27	1 / 74 PND 33
PND		Tail Tip Missing	0 / 69	1 / 81 PND 24	1 / 89 PND 33	0 / 74
PND		Thread-like Tail	0 / 69	0 / 81	0 / 89	1 / 74 PND 31
PND		Vaginal Thread	1 / 69 PND 41	0 / 81	1 / 89 PND 39	1 / 74 PND 42

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F1 Male: F1c Parental Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Alopecia Abdomen	0 / 40	0 / 40	1 / 40 PND 154	0 / 40
PND		Alopecia Right Forelimb	0 / 40	0 / 40	1 / 40 PND 126	0 / 40
PND		Ear Damaged Left	1 / 40 PND 198	0 / 40	0 / 40	0 / 40
PND		Eye Discharge Bilateral; Brown	0 / 40	0 / 40	1 / 40 PND 172	0 / 40
PND		Eye Discharge Bilateral; Red	0 / 40	1 / 40 PND 101	1 / 40 PND 170	0 / 40
PND		Eye Discharge Left; Brown	1 / 40 PND 126	0 / 40	1 / 40 PND 147	0 / 40
PND		Eye Discharge Left; Red	1 / 40 PND 147	0 / 40	0 / 40	0 / 40
PND		Eye Discharge Right; Black	0 / 40	0 / 40	1 / 40 PND 175	0 / 40
PND		Eye Discharge Right; Brown	1 / 40 PND 148	1 / 40 PND 210	0 / 40	0 / 40
PND		Eye Discharge Right; Red	0 / 40	1 / 40 PND 126	1 / 40 PND 161	0 / 40

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F1 Male: F1c Parental Males

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Mass Abdomen	0 / 40	0 / 40	0 / 40	1 / 40 PND 221
PND		Scab(s) Neck	0 / 40	1 / 40 PND 140	0 / 40	0 / 40
PND		Sore(s) On Body Head	0 / 40	0 / 40	1 / 40 PND 154	1 / 40 PND 154
PND		Sore(s) On Body Nose/Snout	0 / 40	0 / 40	0 / 40	1 / 40 PND 102
PND		Sore(s) On Body Right Eye	0 / 40	0 / 40	1 / 40 PND 175	0 / 40
PND		Tail Tip Missing	0 / 40	0 / 40	0 / 40	1 / 40 PND 85
PND		Testis Apparently Missing Left	0 / 40	0 / 40	0 / 40	3 / 40 PND 85
PND		Testis Apparently Missing Right	0 / 40	1 / 40 PND 85	0 / 40	1 / 40 PND 85
PND		Testis Small Bilateral	0 / 40	0 / 40	1 / 40 PND 189	0 / 40
PND		Testis Small Left	0 / 40	0 / 40	0 / 40	1 / 40 PND 85

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	A	Alopecia Head	1 / 31 GD 7	0 / 30	0 / 30	0 / 27
GD	A	Alopecia Neck	0 / 31	0 / 30	0 / 30	1 / 27 GD 20
GD	A	Alopecia Right Fore Paw	1 / 31 GD 12	0 / 30	0 / 30	0 / 27
GD	A	Deformed Left Hind Paw	1 / 31 GD 0	0 / 30	0 / 30	0 / 27
GD	A	Deformed Right Hind Paw	0 / 31	1 / 30 GD 15	0 / 30	0 / 27
GD	A	Eye Discharge Bilateral; Black	0 / 31	1 / 30 GD 18	0 / 30	0 / 27
GD	A	Mass Anogenital Area	1 / 31 GD 0	0 / 30	0 / 30	1 / 27 GD 0
GD	A	Mass Right Axillary	0 / 31	0 / 30	1 / 30 GD 15	0 / 27
GD	A	Nasal Discharge Red	1 / 31 GD 5	0 / 30	0 / 30	0 / 27
GD	A	Sore(s) On Body Left Eye	1 / 31 GD 0	0 / 30	0 / 30	0 / 27

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	A	Tail Tip Missing	0 / 31	0 / 30	1 / 30 GD 0	0 / 27
LD	A	Alopecia Neck	0 / 32	0 / 31	0 / 32	1 / 29 LD 0
LD	A	Deformed Left Hind Paw	1 / 32 LD 0	0 / 31	0 / 32	0 / 29
LD	A	Deformed Right Hind Paw	0 / 32	1 / 31 LD 0	0 / 32	0 / 29
LD	A	Eye Discharge Bilateral; Black	0 / 32	1 / 31 LD 0	0 / 32	0 / 29
LD	A	Eye Discharge Left; Red	1 / 32 LD 3	0 / 31	0 / 32	0 / 29
LD	A	Mass Anogenital Area	1 / 32 LD 0	0 / 31	0 / 32	1 / 29 LD 0
LD	A	Mass Right Axillary	0 / 32	0 / 31	1 / 32 LD 0	0 / 29
LD	A	Tail Tip Missing	0 / 32	0 / 31	1 / 32 LD 0	0 / 29
LD	A	Vaginal Discharge Red	0 / 32	0 / 31	1 / 32 LD 1	0 / 29

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	B	Alopecia Left Fore Paw	0 / 34	2 / 27 GD 12	0 / 31	0 / 30
GD	B	Alopecia Left Forelimb	0 / 34	1 / 27 GD 0	0 / 31	0 / 30
GD	B	Alopecia Neck	0 / 34	0 / 27	0 / 31	1 / 30 GD 0
GD	B	Alopecia Right Fore Paw	0 / 34	1 / 27 GD 18	0 / 31	0 / 30
GD	B	Alopecia Right Forelimb	0 / 34	0 / 27	1 / 31 GD 21	0 / 30
GD	B	Deformed Left Hind Paw	1 / 34 GD 0	0 / 27	0 / 31	1 / 30 GD 0
GD	B	Deformed Right Hind Paw	1 / 34 GD 0	2 / 27 GD 0	0 / 31	0 / 30
GD	B	Eye Discharge Bilateral; Brown	0 / 34	1 / 27 GD 21	0 / 31	0 / 30
GD	B	Eye Discharge Right; Brown	1 / 34 GD 9	0 / 27	0 / 31	0 / 30
GD	B	Eye Discharge Right; Red	1 / 34 GD 8	0 / 27	0 / 31	0 / 30

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	B	Mass Anogenital Area	1 / 34 GD 0	0 / 27	0 / 31	0 / 30
GD	B	Mass Chest	1 / 34 GD 19	0 / 27	0 / 31	0 / 30
GD	B	Nasal Discharge Red	0 / 34	0 / 27	0 / 31	1 / 30 GD 21
GD	B	Sore(s) On Body Back	0 / 34	0 / 27	0 / 31	1 / 30 GD 0
GD	B	Sore(s) On Body Left Eye	0 / 34	0 / 27	1 / 31 GD 0	0 / 30
GD	B	Sore(s) On Body Nose/Snout	1 / 34 GD 0	0 / 27	0 / 31	0 / 30
GD	B	Tail Tip Missing	0 / 34	0 / 27	1 / 31 GD 0	0 / 30
LD	B	Alopecia Left Fore Paw	0 / 35	2 / 31 LD 0	0 / 31	0 / 33
LD	B	Alopecia Left Forelimb	0 / 35	1 / 31 LD 0	0 / 31	0 / 33
LD	B	Alopecia Right Fore Paw	0 / 35	1 / 31 LD 0	0 / 31	0 / 33

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Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

I05: Clinical Observations Summary
Test Compound: Diisobutyl Phthalate
CAS Number: 84-69-5

Date Report Requested: 12/03/2018
Time Report Requested: 08:53:13
Lab: RTI

F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
LD	B	Alopecia Right Forelimb	0 / 35	0 / 31	1 / 31 LD 0	0 / 33
LD	B	Deformed Left Hind Paw	1 / 35 LD 0	0 / 31	0 / 31	1 / 33 LD 0
LD	B	Deformed Right Hind Paw	1 / 35 LD 0	2 / 31 LD 0	0 / 31	0 / 33
LD	B	Eye Discharge Bilateral; Brown	0 / 35	1 / 31 LD 0	0 / 31	0 / 33
LD	B	Mass Chest	1 / 35 LD 0	0 / 31	0 / 31	0 / 33
LD	B	Tail Tip Missing	0 / 35	0 / 31	1 / 31 LD 0	0 / 33
GD	C	Alopecia Left Fore Paw	0 / 27	1 / 33 GD 0	0 / 24	0 / 30
GD	C	Alopecia Left Forelimb	0 / 27	1 / 33 GD 0	0 / 24	0 / 30
GD	C	Alopecia Neck	0 / 27	1 / 33 GD 21	1 / 24 GD 0	0 / 30
GD	C	Alopecia Right Shoulder	0 / 27	1 / 33 GD 6	0 / 24	0 / 30

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
GD	C	Deformed Left Fore Paw	1 / 27 GD 15	0 / 33	0 / 24	0 / 30
GD	C	Deformed Left Hind Paw	1 / 27 GD 0	0 / 33	0 / 24	0 / 30
GD	C	Deformed Right Hind Paw	2 / 27 GD 0	1 / 33 GD 0	0 / 24	0 / 30
GD	C	Mass Anogenital Area	0 / 27	0 / 33	1 / 24 GD 0	0 / 30
GD	C	Mass Chest	1 / 27 GD 20	1 / 33 GD 22	0 / 24	0 / 30
GD	C	Mass Left Shoulder	0 / 27	1 / 33 GD 21	0 / 24	0 / 30
GD	C	Mass Right Axillary	0 / 27	1 / 33 GD 21	0 / 24	1 / 30 GD 19
GD	C	Scab(s) Face	1 / 27 GD 4	0 / 33	0 / 24	0 / 30
GD	C	Sore(s) On Body Neck	0 / 27	0 / 33	1 / 24 GD 0	0 / 30
GD	C	Sore(s) On Body Right Shoulder	0 / 27	1 / 33 GD 6	0 / 24	0 / 30

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
LD	C	Alopecia Left Fore Paw	0 / 33	1 / 37 LD 7	0 / 30	0 / 34
LD	C	Alopecia Left Forelimb	0 / 33	2 / 37 LD 7	0 / 30	0 / 34
LD	C	Alopecia Neck	0 / 33	1 / 37 LD 0	0 / 30	0 / 34
LD	C	Deformed Left Fore Paw	1 / 33 LD 0	0 / 37	0 / 30	0 / 34
LD	C	Deformed Left Hind Paw	1 / 33 LD 0	0 / 37	0 / 30	1 / 34 LD 0
LD	C	Deformed Right Hind Paw	2 / 33 LD 0	1 / 37 LD 0	0 / 30	0 / 34
LD	C	Eye Discharge Left; Brown	0 / 33	0 / 37	1 / 30 LD 6	0 / 34
LD	C	Mass Anogenital Area	0 / 33	0 / 37	1 / 30 LD 0	0 / 34
LD	C	Mass Chest	1 / 33 LD 0	0 / 37	0 / 30	0 / 34
LD	C	Mass Left Inguinal	1 / 33 LD 0	0 / 37	0 / 30	0 / 34

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
LD	C	Mass Left Shoulder	0 / 33	1 / 37 LD 0	0 / 30	0 / 34
LD	C	Mass Right Axillary	0 / 33	2 / 37 LD 0	1 / 30 LD 0	1 / 34 LD 0
LD	C	Sore(s) On Body Left Forelimb	0 / 33	1 / 37 LD 7	0 / 30	0 / 34
PND		Abnormal Posture	0 / 40	0 / 40	1 / 40 PND 165	0 / 40
PND		Alopecia Left Fore Paw	0 / 40	2 / 40 PND 176	1 / 40 PND 174	0 / 40
PND		Alopecia Left Forelimb	0 / 40	2 / 40 PND 138	0 / 40	0 / 40
PND		Alopecia Neck	0 / 40	0 / 40	1 / 40 PND 185	1 / 40 PND 138
PND		Alopecia Right Fore Paw	0 / 40	1 / 40 PND 177	2 / 40 PND 171	0 / 40
PND		Alopecia Right Forelimb	0 / 40	0 / 40	2 / 40 PND 152	0 / 40
PND		Cold To Touch	0 / 40	0 / 40	1 / 40 PND 126	0 / 40

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Deformed Left Hind Paw	1 / 40 PND 99	0 / 40	0 / 40	1 / 40 PND 91
PND		Deformed Right Hind Paw	2 / 40 PND 99	2 / 40 PND 127	0 / 40	1 / 40 PND 94
PND		Deformed Right Hindlimb	1 / 40 PND 106	0 / 40	0 / 40	0 / 40
PND		Eye Discharge Bilateral; Black	0 / 40	1 / 40 PND 130	0 / 40	0 / 40
PND		Eye Discharge Bilateral; Brown	0 / 40	1 / 40 PND 190	0 / 40	0 / 40
PND		Eye Discharge Bilateral; Red	0 / 40	0 / 40	1 / 40 PND 165	0 / 40
PND		Eye Discharge Left; Black	1 / 40 PND 200	0 / 40	1 / 40 PND 133	0 / 40
PND		Eye Discharge Left; Brown	1 / 40 PND 101	1 / 40 PND 217	0 / 40	0 / 40
PND		Eye Discharge Left; Red	2 / 40 PND 137	0 / 40	0 / 40	0 / 40
PND		Eye Discharge Right; Black	1 / 40 PND 105	0 / 40	0 / 40	0 / 40

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Eye Discharge Right; Brown	1 / 40 PND 91	1 / 40 PND 131	0 / 40	0 / 40
PND		Eye Discharge Right; Red	1 / 40 PND 86	0 / 40	0 / 40	0 / 40
PND		Eye Discolored Right; Red	1 / 40 PND 133	0 / 40	0 / 40	0 / 40
PND		Feces Few	0 / 40	0 / 40	0 / 40	1 / 40 PND 130
PND		Hunched	0 / 40	0 / 40	1 / 40 PND 165	0 / 40
PND		Lethargic	0 / 40	0 / 40	1 / 40 PND 165	0 / 40
PND		Mass Abdomen	0 / 40	0 / 40	1 / 40 PND 134	0 / 40
PND		Mass Anogenital Area	1 / 40 PND 100	0 / 40	1 / 40 PND 185	1 / 40 PND 131
PND		Mass Chest	1 / 40 PND 173	0 / 40	0 / 40	0 / 40
PND		Mass Left Inguinal	1 / 40 PND 205	0 / 40	0 / 40	0 / 40

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F1 Female: F1c Parental Females

Phase	Litter ID	Observation	Treatment Groups (ppm)			
			0	1000	5000	10000
PND		Mass Neck	1 / 40 PND 181	0 / 40	0 / 40	0 / 40
PND		Mass Right Axillary	1 / 40 PND 175	0 / 40	2 / 40 PND 143	0 / 40
PND		Pale	0 / 40	0 / 40	1 / 40 PND 126	0 / 40
PND		Sore(s) On Body Back	0 / 40	0 / 40	0 / 40	1 / 40 PND 145
PND		Sore(s) On Body Left Eye	1 / 40 PND 104	0 / 40	1 / 40 PND 144	0 / 40
PND		Sore(s) On Body Neck	0 / 40	0 / 40	1 / 40 PND 185	0 / 40
PND		Sore(s) On Body Right Axillary	1 / 40 PND 180	0 / 40	1 / 40 PND 165	0 / 40
PND		Sore(s) On Body Right Forelimb	0 / 40	0 / 40	1 / 40 PND 206	0 / 40
PND		Tail Tip Missing	0 / 40	0 / 40	1 / 40 PND 85	0 / 40
PND		Vaginal Discharge Red	1 / 40 PND 152	0 / 40	1 / 40 PND 126	1 / 40 PND 115

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LEGEND

Animals exhibiting clinical observations "within normal limits" were recorded as scheduled but are omitted from the table for clarity.

Upper row displays cumulative number of animals with observation / total animals started on study for SD days, total number of pregnant animals for GD days, or total number of littered females for LD days.

Lower row displays day of observation onset

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

Females listed as SD were not pregnant

In multiple breeding/littering studies Litter A is the default designation for the first litter; subsequent litters would be B, C etc.

**** END OF REPORT ****