

Study Number: MOG11042
Test Type: MOG - Range Finding
Route: Dosing in Feed
Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary
Test Compound: Triphenyl Phosphate
CAS Number: 115-86-6

Date Report Requested: 03/30/2020
Time Report Requested: 10:55:46
Lab: Battelle

C Number:

MOG11042

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
No. pups post cull (PND 10)	138	143	155	126	83
No. litters post cull (PND 10)	12	13	12	11	9
No. pups post cull (PND 14)	136	141	153	123	81
No. litters post cull (PND 14)	12	13	12	11	9
No. pups post cull (PND 21)	136	141	153	122	66
No. litters post cull (PND 21)	12	13	12	11	8
No. pups post cull (PND 28)	86	97	121	78	25
No. litters post cull (PND 28)	11	10	12	11	7

PND10

Bizarre Behavior, Flopping

0	0	0	3 (2.4)	0
0	0	0	2 (18.2)	0

Breathing, shallow

0	1 (0.7)	0	0	0
0	1 (7.7)	0	0	0

Cold To Touch

0	1 (0.7)	0	0	0
0	1 (7.7)	0	0	0

Damaged

4 (2.9)	5 (3.5)	3 (1.9)	0	0
Tail	2 (16.7)	3 (23.1)	2 (16.7)	0

Discolored

0	1 (0.7)	0	1 (0.8)	0
Tip of Tail; Black	0	1 (7.7)	0	1 (9.1)

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Gait Abnormal	0	0	1 (0.6)	0	0
	0	0	1 (8.3)	0	0
Hyperactivity	0	0	1 (0.6)	0	0
	0	0	1 (8.3)	0	0
Hypoactivity	0	0	0	0	1 (1.2)
	0	0	0	0	1 (11.1)
Lethargic	0	1 (0.7)	1 (0.6)	0	0
	0	1 (7.7)	1 (8.3)	0	0
Missing	0	1 (0.7)	0	0	0
Fore Paw; Left	0	1 (7.7)	0	0	0
Missing	0	0	0	0	1 (1.2)
Hind Limb; Left	0	0	0	0	1 (11.1)
Missing	0	1 (0.7)	0	0	0
Tail	0	1 (7.7)	0	0	0
Missing	0	1 (0.7)	0	1 (0.8)	0
Tip of Tail	0	1 (7.7)	0	1 (9.1)	0
Swelling	0	1 (0.7)	0	0	0
Fore Limb; Left	0	1 (7.7)	0	0	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Urination	18 (13.0)	36 (25.2)	27 (17.4)	8 (6.3)	2 (2.4)
	7 (58.3)	9 (69.2)	7 (58.3)	4 (36.4)	2 (22.2)
Vocalization	1 (0.7)	0	0	0	0
Mild	1 (8.3)	0	0	0	0
Wound	0	1 (0.7)	0	0	0
Ear; Left; Mild	0	1 (7.7)	0	0	0
Wound	0	0	1 (0.6)	0	0
Fore Paw; Left; Moderate	0	0	1 (8.3)	0	0
Wound	0	1 (0.7)	1 (0.6)	0	0
Tail; Moderate	0	1 (7.7)	1 (8.3)	0	0
PND14					
Damaged	4 (2.9)	17 (12.1)	15 (9.8)	0	2 (2.5)
Tail	2 (16.7)	7 (53.8)	7 (58.3)	0	1 (11.1)
Defecation	0	0	0	1 (0.8)	0
	0	0	0	1 (9.1)	0
Discolored	0	1 (0.7)	0	0	0
Fore Paw; Left	0	1 (7.7)	0	0	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Discolored	0	1 (0.7)	4 (2.6)	1 (0.8)	0
Tip of Tail; Black	0	1 (7.7)	2 (16.7)	1 (9.1)	0
Missing	0	1 (0.7)	0	0	0
Fore Paw; Left	0	1 (7.7)	0	0	0
Missing	0	1 (0.7)	1 (0.7)	0	0
Tail	0	1 (7.7)	1 (8.3)	0	0
Missing	0	1 (0.7)	4 (2.6)	1 (0.8)	0
Tip of Tail	0	1 (7.7)	2 (16.7)	1 (9.1)	0
Rearing	10 (7.4)	12 (8.5)	2 (1.3)	0	0
	8 (66.7)	6 (46.2)	2 (16.7)	0	0
Swelling	0	1 (0.7)	0	0	0
Fore Limb; Left	0	1 (7.7)	0	0	0
Urination	11 (8.1)	22 (15.6)	25 (16.3)	15 (12.2)	6 (7.4)
	6 (50.0)	8 (61.5)	10 (83.3)	7 (63.6)	4 (44.4)
Vocalization	0	0	1 (0.7)	2 (1.6)	2 (2.5)
Mild	0	0	1 (8.3)	1 (9.1)	2 (22.2)
Wound	0	1 (0.7)	0	0	0
Ear; Left; Mild	0	1 (7.7)	0	0	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Wound	1 (0.7)	0	0	0	0
Nose/Snout; Mild	1 (8.3)	0	0	0	0
Wound	0	3 (2.1)	0	0	0
Tail; Mild	0	3 (23.1)	0	0	0
Wound	0	1 (0.7)	3 (2.0)	0	0
Tail; Moderate	0	1 (7.7)	2 (16.7)	0	0
PND21					
Coat Ruffled	0	0	0	0	1 (1.5)
	0	0	0	0	1 (12.5)
Coat Soiled	0	0	0	0	1 (1.5)
Dorsum; Bilateral	0	0	0	0	1 (12.5)
Damaged	4 (2.9)	20 (14.2)	15 (9.8)	1 (0.8)	2 (3.0)
Tail	2 (16.7)	9 (69.2)	7 (58.3)	1 (9.1)	2 (25.0)
Defecation	4 (2.9)	4 (2.8)	4 (2.6)	0	0
	2 (16.7)	2 (15.4)	3 (25.0)	0	0
Discharge	0	0	0	1 (0.8)	0
Eye; Red	0	0	0	1 (9.1)	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Eye Abnormality	0	0	0	0	1 (1.5)
Right	0	0	0	0	1 (12.5)
Hyperactivity	0	1 (0.7)	0	0	0
	0	1 (7.7)	0	0	0
Missing	0	1 (0.7)	0	0	0
Fore Paw; Left	0	1 (7.7)	0	0	0
Missing	0	1 (0.7)	8 (5.2)	0	0
Tail	0	1 (7.7)	3 (25.0)	0	0
Missing	0	5 (3.5)	0	1 (0.8)	0
Tip of Tail	0	3 (23.1)	0	1 (9.1)	0
Rearing	46 (33.8)	32 (22.7)	53 (34.6)	13 (10.7)	11 (16.7)
	10 (83.3)	8 (61.5)	4 (33.3)	2 (18.2)	2 (25.0)
Thin	0	0	0	1 (0.8)	0
	0	0	0	1 (9.1)	0
Urination	2 (1.5)	2 (1.4)	1 (0.7)	4 (3.3)	5 (7.6)
	2 (16.7)	2 (15.4)	1 (8.3)	4 (36.4)	5 (62.5)
Vocalization	0	0	0	0	1 (1.5)
Mild	0	0	0	0	1 (12.5)

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
PND28					
Coat Soiled	0	0	0	0	1 (4.0)
Dorsum; Bilateral	0	0	0	0	1 (14.3)
Damaged	4 (4.7)	20 (20.6)	15 (12.4)	1 (1.3)	2 (8.0)
Tail	2 (18.2)	9 (90.0)	7 (58.3)	1 (9.1)	2 (28.6)
Defecation	3 (3.5)	6 (6.2)	1 (0.8)	3 (3.8)	3 (12.0)
	2 (18.2)	4 (40.0)	1 (8.3)	3 (27.3)	2 (28.6)
Discharge	2 (2.3)	0	0	3 (3.8)	2 (8.0)
Eye; Red	2 (18.2)	0	0	3 (27.3)	1 (14.3)
Discharge	0	0	0	0	1 (4.0)
Eye; Yellow	0	0	0	0	1 (14.3)
Discharge	2 (2.3)	0	0	1 (1.3)	4 (16.0)
Nose/Snout; Red	1 (9.1)	0	0	1 (9.1)	3 (42.9)
Head Tilt	0	1 (1.0)	0	0	0
	0	1 (10.0)	0	0	0
Hyperactivity	0	1 (1.0)	0	0	0
	0	1 (10.0)	0	0	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

F1 Pups

Treatment Groups (ppm)

	0	1000	3000	10000	15000
Missing	0	1 (1.0)	0	0	0
Fore Paw; Left	0	1 (10.0)	0	0	0
Missing	0	1 (1.0)	8 (6.6)	0	0
Tail	0	1 (10.0)	3 (25.0)	0	0
Missing	0	5 (5.2)	0	1 (1.3)	0
Tip of Tail	0	3 (30.0)	0	1 (9.1)	0
Rearing	56 (65.1)	70 (72.2)	137 (113.2)	91 (116.7)	56 (224.0)
	12 (109.1)	13 (130.0)	12 (100.0)	11 (100.0)	8 (114.3)
Stereotypy, Pacing	0	1 (1.0)	0	0	0
	0	1 (10.0)	0	0	0
Stereotypy, Repetitive Sniffing	0	1 (1.0)	0	0	0
	0	1 (10.0)	0	0	0
Thin	0	0	0	1 (1.3)	16 (64.0)
	0	0	0	1 (9.1)	2 (28.6)
Urination	1 (1.2)	4 (4.1)	3 (2.5)	0	0
	1 (9.1)	3 (30.0)	3 (25.0)	0	0

Study Number: MOG11042

Test Type: MOG - Range Finding

Route: Dosing in Feed

Species/Strain: Rat/Harlan Sprague Dawley

I05PD: Pup Detailed Clinical Observations Summary

Test Compound: Triphenyl Phosphate

CAS Number: 115-86-6

Date Report Requested: 03/30/2020

Time Report Requested: 10:55:46

Lab: Battelle

LEGEND

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

PND - Postnatal Day, pups pre-weaning

Upper row denotes the pup incidence N (%)

Middle row denotes the litter incidence N (%)

No. live litters includes litters with ≥ 1 live pup

Percent incidence calculated using number of live pups or litters on the specific postnatal day of detailed clinical observations.

F1 litter incidence based on the number of F0 dams.

**** END OF REPORT ****