

Table 2B - 11

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Piloerection

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
	NA	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
	NA	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0
	NA	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 12

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Skin color

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0
Parathion 0.3	-2	0	0
	-1	0	0
	0	5	5
	1	0	0
	2	0	0
Methami dophos 1.0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 13

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Exploration

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	1	0
	0	5	4
	1	2	4
	2	0	0
Parathion 0.3	-2	0	0
	-1	4	0
	0	0	2
	1	1	3
	2	0	0
Methami dophos 1.0	-2	0	0
	-1	3	0
	0	3	5
	1	2	3
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 14

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Abnormal gait

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
	NA	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
	NA	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0
	NA	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 15

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Count of defecation

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	6
	1	0	1
	2	0	1
	3	0	0
	4	0	0
	5	0	0
	6	0	0
	7	0	0
Parathion 0.3	0	5	4
	1	0	0
	2	0	1
	3	0	0
	4	0	0
	5	0	0
	6	0	0
	7	0	0
Methami dophos 1.0	0	7	8
	1	0	0
	2	1	0
	3	0	0
	4	0	0
	5	0	0
	6	0	0
	7	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 16

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Defecation

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	0	2
0	1	0	0
	2	0	0
	3	0	0
	NA	8	6
Parathion	0	0	1
0.3	1	0	0
	2	0	0
	3	0	0
	NA	5	4
Methami	0	1	0
dophos	1	0	0
1.0	2	0	0
	3	0	0
	NA	7	8

Table 2B - 17

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Urination

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	5	5
0	1	0	0
	2	0	0
	3	0	0
	NA	3	3
Parathion	0	3	4
0.3	1	0	0
	2	0	0
	3	0	0
	NA	2	1
Methami	0	5	3
dophos	1	0	0
1.0	2	0	0
	3	0	0
	NA	3	5

Table 2B - 18

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Exophthalmos

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 19

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Palpebral closure

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 20

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Lacrimation

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 21

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Salivation

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.



Table 2B - 22

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Mucous membrane

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0
Parathion 0.3	-2	0	0
	-1	0	0
	0	5	5
	1	0	0
	2	0	0
Methami dophos 1.0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 23

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Secretions/excretions (eye)

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
	3	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
	3	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 24

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Secretions/excretions (nose)

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	8	8
0	1	0	0
	2	0	0
	3	0	0
Parathion	0	5	5
0.3	1	0	0
	2	0	0
	3	0	0
Methami dophos	0	8	8
1.0	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 25

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Secretions/excretions (mouth)

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	8	8
0	1	0	0
	2	0	0
	3	0	0
Parathion	0	5	5
0.3	1	0	0
	2	0	0
	3	0	0
Methami dophos	0	8	8
1.0	1	0	0
	2	0	0
	3	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 26

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Muscle tone

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	2	1
	0	6	7
	1	0	0
	2	0	0
Parathion 0.3	-2	0	0
	-1	1	1
	0	4	4
	1	0	0
	2	0	0
Methami dophos 1.0	-2	0	0
	-1	3	2
	0	5	6
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 27

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Reactivity to handling

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0
Parathion 0.3	-2	0	0
	-1	0	0
	0	5	5
	1	0	0
	2	0	0
Methami dophos 1.0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 28

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Co-ordination of movement

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	0	8	8
	1	0	0
	2	0	0
Parathion 0.3	0	5	5
	1	0	0
	2	0	0
Methami dophos 1.0	0	8	8
	1	0	0
	2	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 29

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Pupil size

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80 0	-2	0	0
	-1	1	0
	0	7	8
	1	0	0
	2	0	0
	NA	0	0
Parathion 0.3	-2	0	0
	-1	1	0
	0	4	5
	1	0	0
	2	0	0
	NA	0	0
Methami dophos 1.0	-2	0	0
	-1	0	0
	0	8	8
	1	0	0
	2	0	0
	NA	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 30

Detailed clinical observations - Summary data in maternal rats on postnatal day

Handling: Pupillary reflex

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	8	8
0	1	0	0
	2	0	0
	NA	0	0
Parathion	0	5	5
0.3	1	0	0
	2	0	0
	NA	0	0
Methami	0	8	8
dophos	1	0	0
1.0	2	0	0
	NA	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 2B - 31

Detailed clinical observations - Summary data in maternal rats on postnatal day

Open field: Count of rearing

Dose groups (mg/kg/day)	Score	PND	
		6	19
1% Tween80	0	1	1
0	1-5	5	2
	6-10	1	5
	11-15	1	0
Parathion	0	2	0
0.3	1-5	2	3
	6-10	1	1
	11-15	0	1
Methami	0	1	0
dophos	1-5	6	6
1.0	6-10	1	1
	11-15	0	1

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 3A Body weight - Group mean values in maternal rats on gestation day

Dose groups (mg/kg/day)	GD <sup>a)</sup>	0	6	9	13	16	19	20
		1% Tween80 0	Mean S.D.	192 7	215 7	222 9	243 9	261 9
Parathion 0.3	Mean S.D.	189 7	215 9	213 19	232 19	251 18	278 22	287 23
Methamido phos1.0	Mean S.D.	199 11	222 12	229 12	246 14	263 17	292 23	302 24

<sup>a)</sup>: Gestation day (GD) 0 is the day on which a vaginal plug and/or sperm are observed.

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.

Table 3B Body weight - Group mean values in maternal rats on postnatal day

Dose groups (mg/kg/day)	PND <sup>a)</sup>	0	4	7	11	14	18	21
		1% Tween80 0	Mean S.D.	229 11	253 11	258 12	270 10	274 11
Parathion 0.3	Mean S.D.	223 18	245 16	251 16	267 14	270 16	269 18	258 10
Methamido phos1.0	Mean S.D.	229 13	253 13	261 11	273 12	277 14	280 14	269 11

<sup>a)</sup>: Postnatal day (PND) 0 is the day on delivery.

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.

Table 4 - 1 Cholinesterase activity - Group mean values in maternal rats on postnatal day 22

Dose groups (mg/kg/day)	No. of animals examined		Serum (U/L)
1% Tween 80 0	8	Mean	1136
		S.D.	306
Parathion 0.3	6	Mean	1153
		S.D.	369
Methamido phos1.0	10	Mean	776 **
		S.D.	199

S.D.: Standard deviation.

Data were statistically analyzed by Student's *t* test or Aspin-Welch test.

Table 4 - 2 Cholinesterase activity - Group mean values in maternal rats on postnatal day 22

Dose groups (mg/kg/day)	No. of animals examined		Brain (U/L)
1% Tween 80 0	8	Mean	222
		S.D.	71
Parathion 0.3	6	Mean	224
		S.D.	75
Methamido phos1.0	10	Mean	176
		S.D.	35

S.D.: Standard deviation.

Data were statistically analyzed by Student's *t* test or Aspin-Welch test.



Table 5 General health condition - Incidence of signs in F1 male rats after weaning

Clinical signs	Dose groups (mg/kg/day)	1% Tween80 0	Parathion 0.3	Methamidophos 1.0
No abnormalities detected		24	13	24

Data were statistically analyzed by Fisher's exact probability test.

Table 6 General health condition - Incidence of signs in F1 female rats after weaning

Clinical signs	Dose groups (mg/kg/day)	1% Tween80 0	Parathion 0.3	Methamidophos 1.0
No abnormalities detected		22	17	24
Behavior: Jumping		1	0	0
Skin (periocular region): Red adhesive substance		1	0	0

Data were statistically analyzed by Fisher's exact probability test.

Table 7 - 1 Detailed clinical observations - Summary data in F1 male rats on postnatal day

Home cage: Body position/posture

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	0	8	8	8	8
	1	0	0	0	0
Parathion 0.3	0	5	5	5	5
	1	0	0	0	0
Methami dophos 1.0	0	8	8	8	8
	1	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 7 - 2 Detailed clinical observations - Summary data in F1 male rats on postnatal day

Home cage: Respiratory pattern

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Parathion 0.3	0	5	5	5	5
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Methami dophos 1.0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 7 - 3

Detailed clinical observations - Summary data in F1 male rats on postnatal day

Home cage: Twitch

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0
Parathion 0.3	0	5	5	5	5
	1	0	0	0	0
	2	0	0	0	0
Methami dophos 1.0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 7 - 4

Detailed clinical observations - Summary data in F1 male rats on postnatal day

Home cage: Tremors

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0
Parathion 0.3	0	5	5	5	5
	1	0	0	0	0
	2	0	0	0	0
Methami dophos 1.0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 7 - 5

Detailed clinical observations - Summary data in F1 male rats on postnatal day

Home cage: Convulsions

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0
Parathion 0.3	0	5	5	5	5
	1	0	0	0	0
	2	0	0	0	0
Methami dophos 1.0	0	8	8	8	8
	1	0	0	0	0
	2	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.

Table 7 - 6

Detailed clinical observations - Summary data in F1 male rats on postnatal day

Handling: Alertness

Dose groups (mg/kg/day)	Score	PND			
		13	25	40	63
1% Tween80 0	-2	0	0	0	0
	-1	5	0	1	1
	0	3	8	7	7
	1	0	0	0	0
	2	0	0	0	0
	2	0	0	0	0
Parathion 0.3	-2	0	0	0	0
	-1	4	0	0	0
	0	1	5	5	5
	1	0	0	0	0
	2	0	0	0	0
Methami dophos 1.0	-2	0	0	0	0
	-1	7	0	0	0
	0	1	8	8	8
	1	0	0	0	0
	2	0	0	0	0

Data were statistically analyzed by Dunnett-type test following Kruskal-Wallis test.