

Study Number: MOG06065
Test Type: MOG - Range Finding
Route: Oral Gavage
Species/Strain: Rat/Harlan Sprague Dawley

I05P: Pup Clinical Observations Summary
Test Compound: 2,2'-Dimorpholinodiethyl Ether
CAS Number: 6425-39-4

Date Report Requested: 03/27/2025
Time Report Requested: 13:30:44
Lab: Southern Research

Study Number: MOG06065
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.7.2

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Total Pups (PND 0)	174	138	165	150	176
No. pups post cull (PND 4)	128	130	115	146	110
Total Litters (PND 0)	13	10	12	10	13
No. litters post cull (PND 4)	10	10	9	10	9

Pup Clinical Observations PND 0-4

Bruising	0	0	0	2 (1.3)	5 (2.8)
Abdomen	0	0	0	2 (20.0) PND 0-3	4 (30.8) PND 1-3
Bruising	0	0	1 (0.6)	4 (2.7)	0
Dorsum	0	0	1 (8.3) PND 1	3 (30.0) PND 0-4	0
Bruising	4 (2.3)	8 (5.8)	5 (3.0)	3 (2.0)	2 (1.1)
Head	4 (30.8) PND 0-1	5 (50.0) PND 0-1	4 (33.3) PND 0-2	3 (30.0) PND 0-1	2 (15.4) PND 0-1
Bruising	1 (0.6)	0	0	1 (0.7)	0
Hind Limb	1 (7.7) PND 0-1	0	0	1 (10.0) PND 0-1	0
Bruising	0	0	0	3 (2.0)	0
Hind Paw	0	0	0	2 (20.0) PND 0-1	0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Bruising	0	0	0	1 (0.7)	0
Thorax	0	0	0	1 (10.0) PND 0-3	0
Cold To Touch	0	0	0	0	10 (5.7)
	0	0	0	0	1 (7.7) PND 4
Dehydrated	0	0	0	2 (1.3)	13 (7.4)
	0	0	0	2 (20.0) PND 4	3 (23.1) PND 3-4
Discolored	2 (1.1)	1 (0.7)	1 (0.6)	0	0
Tip of Tail; Black	2 (15.4) PND 1-4	1 (10.0) PND 1-4	1 (8.3) PND 3-4	0	0
Milk Band Absent	0	0	0	0	11 (6.2)
Abdomen	0	0	0	0	2 (15.4) PND 3-4
Missing	0	1 (0.7)	0	0	0
Tip of Tail	0	1 (10.0) PND 0-4	0	0	0
Pale	0	0	1 (0.6)	1 (0.7)	0
	0	0	1 (8.3) PND 1	1 (10.0) PND 1	0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Scab	1 (0.6)	0	0	1 (0.7)	0
Dorsum	1 (7.7) PND 1	0	0	1 (10.0) PND 1	0
Scab	0	0	0	0	1 (0.6)
Face; Left	0	0	0	0	1 (7.7) PND 0
Scab	0	1 (0.7)	0	0	0
Face; Right	0	1 (10.0) PND 0-1	0	0	0
Sore	0	1 (0.7)	0	0	0
Neck; Right	0	1 (10.0) PND 4	0	0	0
Tail Threadlike	0	0	0	0	1 (0.6)
	0	0	0	0	1 (7.7) PND 0-4
Wound	0	1 (0.7)	0	0	0
Head; Right	0	1 (10.0) PND 1-2	0	0	0
Wound	0	0	0	0	1 (0.6)
Nose/Snout; Right	0	0	0	0	1 (7.7) PND 0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Wound	0	0	0	1 (0.7)	1 (0.6)
Thorax; Right	0	0	0	1 (10.0) PND 1	1 (7.7) PND 1
Pup Clinical Observations PND 5-28					
Breathing, labored	0 0	0 0	0 0	1 (0.7) 1 (10.0) PND 5	0 0
Cold To Touch	1 (0.8) 1 (10.0) PND 10	1 (0.8) 1 (10.0) PND 7	0 0	5 (3.4) 1 (10.0) PND 11-13	0 0
Dehydrated	1 (0.8) 1 (10.0) PND 9-10	0 0	0 0	5 (3.4) 5 (50.0) PND 5-15	2 (1.8) 2 (22.2) PND 5-18
Discolored Tip of Tail; Black	1 (0.8) 1 (10.0) PND 5-13	1 (0.8) 1 (10.0) PND 5-11	1 (0.9) 1 (11.1) PND 11-16	1 (0.7) 1 (10.0) PND 20-28	1 (0.9) 1 (11.1) PND 17-19
Distended Abdomen	0 0	0 0	0 0	1 (0.7) 1 (10.0) PND 15	0 0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Eye Abnormality	0	0	1 (0.9)	0	0
Left	0	0	1 (11.1) PND 27-28	0	0
Head Tilt	0	0	1 (0.9)	0	0
	0	0	1 (11.1) PND 27-28	0	0
Lethargic	0	0	0	1 (0.7)	0
	0	0	0	1 (10.0) PND 5	0
Maloccluded/Broken	0	0	1 (0.9)	0	0
Teeth	0	0	1 (11.1) PND 19-28	0	0
Mass	0	1 (0.8)	0	0	0
Head; Bilateral	0	1 (10.0) PND 7-28	0	0	0
Mass	0	0	0	1 (0.7)	1 (0.9)
Head; Bilateral, Soft	0	0	0	1 (10.0) PND 13-28	1 (11.1) PND 15
Mass	0	0	1 (0.9)	0	2 (1.8)
Head; Left	0	0	1 (11.1) PND 23-26	0	2 (22.2) PND 17-18

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Mass	1 (0.8)	0	0	1 (0.7)	0
Head; Left, Soft	1 (10.0) PND 14-16	0	0	1 (10.0) PND 14-19	0
Mass	0	0	1 (0.9)	0	0
Head; Right, Soft	0	0	1 (11.1) PND 12-18	0	0
Mass	0	0	0	1 (0.7)	1 (0.9)
Head; Soft, Bilateral	0	0	0	1 (10.0) PND 12-27	1 (11.1) PND 13-16
Mass	1 (0.8)	0	2 (1.7)	1 (0.7)	0
Head; Soft, Left	1 (10.0) PND 12-18	0	2 (22.2) PND 12	1 (10.0) PND 12-18	0
Mass	0	0	1 (0.9)	0	0
Head; Soft, Right	0	0	1 (11.1) PND 13-16	0	0
Milk Band Absent	1 (0.8)	1 (0.8)	0	9 (6.2)	2 (1.8)
Abdomen	1 (10.0) PND 9-10	1 (10.0) PND 9	0	4 (40.0) PND 5-15	2 (22.2) PND 5-10
Missing	0	0	0	1 (0.7)	0
Tip of Tail; Bilateral	0	0	0	1 (10.0) PND 28	0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Missing	0	1 (0.8)	0	1 (0.7)	0
Tip of Tail	0	1 (10.0) PND 5-28	0	1 (10.0) PND 20-28	0
Opacity	0	0	1 (0.9)	0	0
Eye; Left	0	0	1 (11.1) PND 27-28	0	0
Piloerection	0	0	1 (0.9)	0	0
	0	0	1 (11.1) PND 27-28	0	0
Scab	0	0	0	0	1 (0.9)
Dorsum; Left	0	0	0	0	1 (11.1) PND 8
Scab	1 (0.8)	0	0	0	0
Head; Left	1 (10.0) PND 14	0	0	0	0
Scab	1 (0.8)	0	0	0	0
Tail; Left	1 (10.0) PND 18-23	0	0	0	0
Sore	0	0	0	1 (0.7)	0
Face; Right	0	0	0	1 (10.0) PND 14	0

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Sore	0	1 (0.8)	0	0	0
Neck; Right	0	1 (10.0) PND 5-6	0	0	0
Stained	0	1 (0.8)	0	0	0
Eye; Brown, Right	0	1 (10.0) PND 17-27	0	0	0
Stained	0	0	1 (0.9)	0	0
Eye; Left, Brown	0	0	1 (11.1) PND 27-28	0	0
Stained	0	1 (0.8)	0	0	0
Eye; Right, Brown	0	1 (10.0) PND 18-28	0	0	0
Swelling	1 (0.8)	0	0	0	0
Ear; Bilateral	1 (10.0) PND 5	0	0	0	0
Swelling	0	1 (0.8)	0	0	0
Hind Limb; Left	0	1 (10.0) PND 15-17	0	0	0
Tail Threadlike	0	0	0	0	1 (0.9)
	0	0	0	0	1 (11.1) PND 5-28

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F1 Pups

Treatment Groups (mg/kg/day)

	0	31.25	62.5	125	250
Thin	0	0	0	2 (1.4)	1 (0.9)
	0	0	0	2 (20.0)	1 (11.1)
				PND 5-15	PND 5

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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 denotes the pup incidence N (%)

Middle row denotes the litter incidence N (%)

Lower row denotes the range of postnatal days the finding was seen for the group

F1 litter incidence based on the number of F0 dams.

No. live litters includes litters with ≥ 1 live pup

Percent incidence calculated using number of live pups or litters on PND 0 (pre cull) or PND 4 (post cull)

PND = Postnatal Day, pups pre-weaning.

**** END OF REPORT ****