

**Study Number:** C11049-02  
**Test Type:** TOX  
**Route:** Nose-Only Inhalation  
**Species/Strain:** Mouse/B6C3F1/N

**PA06: Organ Weights Summary**  
**Test Compound:** Trimethylsilyldiazomethane  
**CAS Number:** 18107-18-1

**Date Report Requested:** 10/22/2020  
**Time Report Requested:** 07:57:14  
**Lab:** Battelle

**Study Number:** C11049-02  
**Study Gender:** Male  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.0.8

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**Males: 1 Day Exposure**

	Treatment Groups (ppm)								
	0			10			25 ppm Hexanes		
Terminal Body Wt. (g)	27.9	± 0.5	(8)	27.2	± 0.5	(8)	27.7	± 0.8	(8)
Brain									
Absolute (g)	0.48	± 0.01	(8)	0.48	± 0.00	(8)	0.48	± 0.01	(8)
Relative (mg/g)	17.36	± 0.33	(8)	17.73	± 0.39	(8)	17.35	± 0.45	(8)
R. Epididymis									
Absolute (g)	0.0372	± 0.0015	(8)	0.0351	± 0.0018	(8)	0.0357	± 0.0024	(8)
Relative (mg/g)	1.34	± 0.07	(8)	1.30	± 0.07	(8)	1.30	± 0.10	(8)
L. Epididymis									
Absolute (g)	0.0345	± 0.0020	(8)	0.0359	± 0.0020	(8)	0.0379	± 0.0036	(8)
Relative (mg/g)	1.24	± 0.07	(8)	1.33	± 0.09	(8)	1.37	± 0.13	(8)
Heart									
Absolute (g)	0.13	± 0.00	(8)	0.13	± 0.00	(8)	0.13	± 0.00	(8)
Relative (mg/g)	4.80	± 0.07	(8)	4.89	± 0.07	(8)	4.79	± 0.10	(8)
R. Kidney									
Absolute (g)	0.21	± 0.01	(8)	0.20	± 0.01	(8)	0.22	± 0.01	(8)
Relative (mg/g)	7.65	± 0.15	(8)	7.40	± 0.13	(8)	7.77	± 0.15	(8)
L. Kidney									
Absolute (g)	0.21	± 0.01	(8)	0.20	± 0.00	(8)	0.20	± 0.01	(8)
Relative (mg/g)	7.52	± 0.12	(8)	7.28	± 0.12	(8)	7.27	± 0.10	(8)
Liver									
Absolute (g)	1.42	± 0.04	(8)	1.31	± 0.03	(8)	1.39	± 0.06	(8)
Relative (mg/g)	50.67	± 0.81	(8) *	48.08	± 0.57	(8) *	50.22	± 1.07	(8)
Lung									
Absolute (g)	0.24	± 0.02	(8) *	0.32	± 0.02	(8) *	0.23	± 0.02	(8)
Relative (mg/g)	8.43	± 0.59	(8) *	11.68	± 0.75	(8) **	8.39	± 0.49	(8)
R. Testis									
Absolute (g)	0.110	± 0.002	(8)	0.106	± 0.002	(8)	0.107	± 0.003	(8)
Relative (mg/g)	3.93	± 0.09	(8)	3.92	± 0.08	(8)	3.86	± 0.12	(8)

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**Males: 1 Day Exposure**

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	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
L. Testis			
Absolute (g)	0.105 ± 0.002 (8)	0.106 ± 0.001 (8)	0.103 ± 0.003 (8)
Relative (mg/g)	3.78 ± 0.07 (8)	3.90 ± 0.07 (8)	3.73 ± 0.10 (8)
Thymus			
Absolute (g)	0.040 ± 0.001 (8) *	0.032 ± 0.002 (8) **	0.036 ± 0.002 (8)
Relative (mg/g)	1.43 ± 0.08 (8) *	1.18 ± 0.07 (8) *	1.29 ± 0.05 (8)

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**Males: 1 Day Recovery**

	Treatment Groups (ppm)								
	0			10			25 ppm Hexanes		
Terminal Body Wt. (g)	29.3	± 0.3	(8) *	21.4	± 1.5	(3) **	29.1	± 0.8	(8)
Brain									
Absolute (g)	0.48	± 0.01	(8)	0.46	± 0.01	(3)	0.48	± 0.00	(8)
Relative (mg/g)	16.37	± 0.34	(8) *	21.47	± 1.28	(3) **	16.48	± 0.41	(8)
R. Epididymis									
Absolute (g)	0.0397	± 0.0019	(8)	0.0474	± 0.0109	(3)	0.0386	± 0.0012	(8)
Relative (mg/g)	1.36	± 0.07	(8) *	2.18	± 0.40	(3) **	1.33	± 0.06	(8)
L. Epididymis									
Absolute (g)	0.0370	± 0.0024	(8)	0.0310	± 0.0016	(3)	0.0392	± 0.0015	(8)
Relative (mg/g)	1.27	± 0.08	(8)	1.46	± 0.12	(3)	1.35	± 0.07	(8)
Heart									
Absolute (g)	0.15	± 0.00	(8) **	0.12	± 0.01	(3) **	0.15	± 0.00	(8)
Relative (mg/g)	5.00	± 0.08	(8) *	5.61	± 0.15	(3) **	5.04	± 0.14	(8)
R. Kidney									
Absolute (g)	0.23	± 0.00	(8) *	0.16	± 0.01	(3) **	0.22	± 0.01	(8)
Relative (mg/g)	7.74	± 0.19	(8)	7.30	± 0.08	(3)	7.60	± 0.09	(8)
L. Kidney									
Absolute (g)	0.21	± 0.00	(8) *	0.15	± 0.01	(3) **	0.22	± 0.01	(8)
Relative (mg/g)	7.14	± 0.17	(8)	7.16	± 0.10	(3)	7.40	± 0.14	(8)
Liver									
Absolute (g)	1.50	± 0.04	(8) *	0.95	± 0.11	(3) **	1.47	± 0.06	(8)
Relative (mg/g)	51.31	± 0.88	(8) *	44.22	± 1.99	(3) **	50.38	± 1.11	(8)
Lung									
Absolute (g)	0.25	± 0.02	(8) *	0.42	± 0.02	(3) **	0.25	± 0.02	(8)
Relative (mg/g)	8.62	± 0.51	(8) *	19.70	± 2.09	(3) **	8.48	± 0.62	(8)
R. Testis									
Absolute (g)	0.112	± 0.002	(8)	0.110	± 0.002	(3)	0.112	± 0.001	(8)
Relative (mg/g)	3.83	± 0.08	(8) *	5.15	± 0.23	(3) **	3.87	± 0.08	(8)

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**Males: 1 Day Recovery**

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	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
L. Testis			
Absolute (g)	0.108 ± 0.002 (8)	0.106 ± 0.001 (3)	0.111 ± 0.002 (8)
Relative (mg/g)	3.70 ± 0.09 (8) *	4.98 ± 0.28 (3) **	3.81 ± 0.08 (8)
Thymus			
Absolute (g)	0.049 ± 0.002 (8) *	0.013 ± 0.003 (3) **	0.048 ± 0.004 (8)
Relative (mg/g)	1.67 ± 0.06 (8) *	0.60 ± 0.07 (3) **	1.65 ± 0.11 (8)

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Date Report Requested: 10/22/2020  
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Males: 5 Day Exposure

	Treatment Groups (ppm)														
	0			0.3			1			3			25 ppm Hexanes		
Terminal Body Wt. (g)	28.0	± 0.6	(8) **	27.6	± 0.1	(8)	28.3	± 0.2	(8)	25.1	± 0.5	(8) **	27.9	± 0.4	(8)
Brain															
Absolute (g)	0.48	± 0.00	(8)	0.48	± 0.01	(8)	0.48	± 0.01	(8)	0.48	± 0.01	(8)	0.49	± 0.00	(8)
Relative (mg/g)	17.35	± 0.41	(8) **	17.34	± 0.18	(8)	16.98	± 0.21	(8)	19.04	± 0.28	(8) **	17.44	± 0.25	(8)
R. Epididymis															
Absolute (g)	0.0393 ± 0.0029 (8)			0.0400 ± 0.0025 (8)			0.0420 ± 0.0015 (8)			0.0407 ± 0.0018 (8)			0.0408 ± 0.0013 (8)		
Relative (mg/g)	1.41	± 0.11	(8)	1.45	± 0.09	(8)	1.48	± 0.05	(8)	1.62	± 0.08	(8)	1.46	± 0.04	(8)
L. Epididymis															
Absolute (g)	0.0425 ± 0.0030 (8)			0.0396 ± 0.0024 (8)			0.0369 ± 0.0023 (8)			0.0384 ± 0.0016 (8)			0.0387 ± 0.0025 (8)		
Relative (mg/g)	1.53	± 0.12	(8)	1.43	± 0.08	(8)	1.30	± 0.08	(8)	1.53	± 0.06	(8)	1.38	± 0.08	(8)
Heart															
Absolute (g)	0.14	± 0.00	(8) *	0.14	± 0.00	(8)	0.14	± 0.00	(8)	0.13	± 0.00	(8) *	0.15	± 0.00	(8)
Relative (mg/g)	5.10	± 0.09	(8)	4.98	± 0.10	(8)	4.91	± 0.03	(8)	5.29	± 0.16	(8)	5.24	± 0.12	(8)
R. Kidney															
Absolute (g)	0.22	± 0.00	(8)	0.22	± 0.00	(8)	0.23	± 0.00	(8)	0.20	± 0.01	(8) *	0.23	± 0.01	(8)
Relative (mg/g)	7.96	± 0.09	(8)	8.06	± 0.13	(8)	8.05	± 0.13	(8)	8.10	± 0.15	(8)	8.16	± 0.20	(8)
L. Kidney															
Absolute (g)	0.21	± 0.00	(8) **	0.21	± 0.00	(8)	0.21	± 0.00	(8)	0.18	± 0.01	(8) **	0.21	± 0.00	(8)
Relative (mg/g)	7.56	± 0.11	(8)	7.43	± 0.12	(8)	7.30	± 0.12	(8)	7.31	± 0.15	(8)	7.39	± 0.12	(8)
Liver															
Absolute (g)	1.38	± 0.03	(8) **	1.31	± 0.02	(8)	1.36	± 0.02	(8)	1.06	± 0.03	(8) **	1.47	± 0.05	(8)
Relative (mg/g)	49.31	± 0.69	(8) **	47.57	± 0.42	(8)	48.14	± 0.58	(8)	42.10	± 0.52	(8) **	52.54	± 1.44	(8)
Lung															
Absolute (g)	0.25	± 0.02	(8) **	0.31	± 0.01	(8) **	0.38	± 0.01	(8) **	0.45	± 0.01	(8) **	0.25	± 0.02	(8)
Relative (mg/g)	8.92	± 0.53	(8) **	11.04	± 0.49	(8) **	13.31	± 0.30	(8) **	17.96	± 0.45	(8) **	8.78	± 0.55	(8)
R. Testis															
Absolute (g)	0.111	± 0.003	(8)	0.112	± 0.002	(8)	0.114	± 0.003	(8)	0.115	± 0.002	(8)	0.111	± 0.003	(8)
Relative (mg/g)	3.98	± 0.12	(8) **	4.06	± 0.06	(8)	4.02	± 0.08	(8)	4.58	± 0.07	(8) **	3.99	± 0.07	(8)

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**Males: 5 Day Exposure**

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	<b>Treatment Groups (ppm)</b>				
	<b>0</b>	<b>0.3</b>	<b>1</b>	<b>3</b>	<b>25 ppm Hexanes</b>
L. Testis					
Absolute (g)	0.110 ± 0.003 (8)	0.109 ± 0.001 (8)	0.111 ± 0.003 (8)	0.111 ± 0.002 (8)	0.109 ± 0.002 (8)
Relative (mg/g)	3.93 ± 0.08 (8) **	3.93 ± 0.05 (8)	3.92 ± 0.08 (8)	4.43 ± 0.06 (8) **	3.89 ± 0.06 (8)
Thymus					
Absolute (g)	0.040 ± 0.002 (8) *	0.033 ± 0.001 (8)	0.038 ± 0.003 (8)	0.032 ± 0.002 (8) *	0.037 ± 0.001 (8)
Relative (mg/g)	1.43 ± 0.08 (8)	1.20 ± 0.05 (8)	1.35 ± 0.10 (8)	1.28 ± 0.08 (8)	1.31 ± 0.05 (8)

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Males: 5 Day Recovery

	Treatment Groups (ppm)														
	0			0.3			1			3			25 ppm Hexanes		
Terminal Body Wt. (g)	28.6	± 0.5	(8) **	29.9	± 0.4	(8)	28.0	± 0.3	(8)	22.4	± 0.4	(8) **	29.9	± 0.5	(8)
Brain															
Absolute (g)	0.48	± 0.00	(8)	0.48	± 0.00	(8)	0.49	± 0.00	(8)	0.48	± 0.00	(8)	0.48	± 0.01	(8)
Relative (mg/g)	16.66	± 0.28	(8) **	16.11	± 0.22	(8)	17.35	± 0.20	(8)	21.36	± 0.43	(8) **	16.07	± 0.21	(8)
R. Epididymis															
Absolute (g)	0.0373	± 0.0019	(8) **	0.0397	± 0.0016	(8)	0.0369	± 0.0015	(8)	0.0319	± 0.0013	(8) *	0.0400	± 0.0017	(8)
Relative (mg/g)	1.30	± 0.05	(8)	1.33	± 0.04	(8)	1.32	± 0.05	(8)	1.43	± 0.06	(8)	1.34	± 0.05	(8)
L. Epididymis															
Absolute (g)	0.0373	± 0.0014	(8)	0.0439	± 0.0050	(8)	0.0360	± 0.0012	(8)	0.0341	± 0.0018	(8)	0.0395	± 0.0022	(8)
Relative (mg/g)	1.30	± 0.05	(8)	1.47	± 0.18	(8)	1.29	± 0.04	(8)	1.53	± 0.08	(8)	1.32	± 0.07	(8)
Heart															
Absolute (g)	0.14	± 0.00	(8) **	0.15	± 0.00	(8)	0.14	± 0.00	(8)	0.12	± 0.00	(8) **	0.14	± 0.00	(8)
Relative (mg/g)	4.85	± 0.08	(8)	4.90	± 0.13	(8)	4.96	± 0.12	(8)	5.19	± 0.14	(8)	4.81	± 0.08	(8)
R. Kidney															
Absolute (g)	0.23	± 0.00	(8) **	0.24	± 0.00	(8)	0.22	± 0.00	(8) *	0.17	± 0.01	(8) **	0.24	± 0.00	(8)
Relative (mg/g)	8.04	± 0.09	(8) **	7.91	± 0.13	(8)	7.78	± 0.04	(8)	7.41	± 0.14	(8) **	7.90	± 0.11	(8)
L. Kidney															
Absolute (g)	0.21	± 0.01	(8) **	0.21	± 0.00	(8)	0.19	± 0.00	(8) *	0.16	± 0.00	(8) **	0.21	± 0.00	(8)
Relative (mg/g)	7.29	± 0.11	(8) *	7.07	± 0.07	(8)	6.92	± 0.07	(8)	6.92	± 0.17	(8)	7.15	± 0.13	(8)
Liver															
Absolute (g)	1.40	± 0.02	(8) **	1.50	± 0.03	(8)	1.35	± 0.02	(8)	0.93	± 0.03	(8) **	1.49	± 0.02	(8)
Relative (mg/g)	49.05	± 0.65	(8) **	50.06	± 0.69	(8)	48.36	± 0.43	(8)	41.54	± 0.70	(8) **	49.82	± 0.58	(8)
Lung															
Absolute (g)	0.26	± 0.02	(8) **	0.27	± 0.01	(8)	0.41	± 0.02	(8) **	0.52	± 0.01	(8) **	0.23	± 0.01	(8)
Relative (mg/g)	9.17	± 0.60	(8) **	8.91	± 0.33	(8)	14.50	± 0.51	(8) **	23.30	± 0.82	(8) **	7.82	± 0.29	(8)
R. Testis															
Absolute (g)	0.111	± 0.003	(8)	0.115	± 0.002	(8)	0.114	± 0.002	(8)	0.111	± 0.002	(8)	0.113	± 0.001	(8)
Relative (mg/g)	3.88	± 0.09	(8) **	3.87	± 0.09	(8)	4.07	± 0.10	(8)	4.96	± 0.11	(8) **	3.77	± 0.07	(8)



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**Males: 5 Day Recovery**

	Treatment Groups (ppm)				
	0	0.3	1	3	25 ppm Hexanes
L. Testis					
Absolute (g)	0.109 ± 0.002 (8)	0.112 ± 0.003 (8)	0.109 ± 0.002 (8)	0.107 ± 0.002 (8)	0.109 ± 0.002 (8)
Relative (mg/g)	3.79 ± 0.05 (8) **	3.76 ± 0.12 (8)	3.91 ± 0.09 (8)	4.79 ± 0.09 (8) **	3.65 ± 0.09 (8)
Thymus					
Absolute (g)	0.042 ± 0.002 (8) **	0.041 ± 0.002 (8)	0.038 ± 0.003 (8)	0.013 ± 0.001 (8) **	0.040 ± 0.001 (8)
Relative (mg/g)	1.48 ± 0.06 (8) **	1.38 ± 0.08 (8)	1.36 ± 0.11 (8)	0.59 ± 0.04 (8) **	1.33 ± 0.04 (8)

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## LEGEND

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Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the negative control group compared to the vehicle control group was performed using the t-Test.

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  $P \leq 0.01$

The 1 Day Exposure animals were exposed for one day and then sacrificed on study day 1 (first day of exposure was study day 0); the 1 Day Recovery animals were exposed for 1 day and then sacrificed on study day 9; the 5 Day Exposure animals were exposed for five days and then sacrificed on study day 5; the 5 Day Recovery animals were exposed for five days and then sacrificed on study day 9.

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