

Study Number: C11049-01
Test Type: TOX
Route: Nose-Only Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

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

Date Report Requested: 10/22/2020
Time Report Requested: 07:52:57
Lab: Battelle with CRL

Study Number: C11049-01
Study Gender: Male
PWG Approval Date: See web page for date of PWG Approval
Version: v1.0.8

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Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

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Lab: Battelle with CRL

Males: 1 Day Exposure

	Treatment Groups (ppm)								
	0			10			25 ppm Hexanes		
Terminal Body Wt. (g)	261.4	± 2.4	(8)	258.6	± 2.6	(8)	260.9	± 3.1	(8)
Brain									
Absolute (g)	1.81	± 0.01	(8)	1.79	± 0.02	(8)	1.79	± 0.03	(8)
Relative (mg/g)	6.94	± 0.09	(8)	6.91	± 0.07	(8)	6.85	± 0.11	(8)
R. Epididymis									
Absolute (g)	0.3923	± 0.0164	(8)	0.3993	± 0.0170	(8)	0.3807	± 0.0149	(8)
Relative (mg/g)	1.50	± 0.06	(8)	1.55	± 0.07	(8)	1.46	± 0.07	(8)
L. Epididymis									
Absolute (g)	0.3844	± 0.0131	(8)	0.3773	± 0.0130	(8)	0.3576	± 0.0141	(8)
Relative (mg/g)	1.47	± 0.05	(8)	1.46	± 0.05	(8)	1.37	± 0.06	(8)
Heart									
Absolute (g)	1.04	± 0.02	(8)	0.99	± 0.02	(8)	1.02	± 0.03	(8)
Relative (mg/g)	3.97	± 0.06	(8)	3.83	± 0.05	(8)	3.90	± 0.08	(8)
R. Kidney									
Absolute (g)	0.87	± 0.01	(8)	0.84	± 0.02	(8)	0.83	± 0.02	(8)
Relative (mg/g)	3.33	± 0.04	(8)	3.23	± 0.06	(8)	3.18	± 0.05	(8)
L. Kidney									
Absolute (g)	0.86	± 0.01	(8)	0.83	± 0.02	(8)	0.83	± 0.02	(8)
Relative (mg/g)	3.28	± 0.05	(8)	3.21	± 0.07	(8)	3.17	± 0.06	(8)
Liver									
Absolute (g)	9.50	± 0.20	(8)	9.36	± 0.15	(8)	9.90	± 0.22	(8)
Relative (mg/g)	36.35	± 0.66	(8)	36.22	± 0.58	(8)	37.94	± 0.67	(8)
Lung									
Absolute (g)	2.25	± 0.11	(8) **	1.83	± 0.11	(8) *	2.07	± 0.13	(8)
Relative (mg/g)	8.63	± 0.43	(8) *	7.06	± 0.37	(8) *	7.90	± 0.45	(8)
R. Testis									
Absolute (g)	1.713	± 0.043	(8)	1.673	± 0.039	(8)	1.706	± 0.054	(8)
Relative (mg/g)	6.56	± 0.19	(8)	6.47	± 0.13	(8)	6.55	± 0.23	(8)

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Lab: Battelle with CRL

Males: 1 Day Exposure

	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
L. Testis			
Absolute (g)	1.713 ± 0.047 (8)	1.653 ± 0.036 (8)	1.700 ± 0.050 (8)
Relative (mg/g)	6.56 ± 0.19 (8)	6.39 ± 0.12 (8)	6.52 ± 0.23 (8)
Thymus			
Absolute (g)	0.404 ± 0.012 (8)	0.475 ± 0.047 (8)	0.431 ± 0.017 (8)
Relative (mg/g)	1.55 ± 0.05 (8)	1.83 ± 0.17 (8)	1.65 ± 0.06 (8)

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Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

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CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

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Lab: Battelle with CRL

Males: 1 Day Recovery

	Treatment Groups (ppm)								
	0			10			25 ppm Hexanes		
Terminal Body Wt. (g)	302.5	± 4.2	(8)	299.8	± 4.0	(8)	307.8	± 3.3	(8)
Brain									
Absolute (g)	1.83	± 0.02	(8)	1.81	± 0.03	(8)	1.87	± 0.02	(8)
Relative (mg/g)	6.05	± 0.10	(8)	6.03	± 0.08	(8)	6.09	± 0.09	(8)
R. Epididymis									
Absolute (g)	0.4723	± 0.0168	(8)	0.4615	± 0.0148	(8)	0.4882	± 0.0088	(8)
Relative (mg/g)	1.56	± 0.06	(8)	1.54	± 0.06	(8)	1.59	± 0.03	(8)
L. Epididymis									
Absolute (g)	0.4625	± 0.0146	(8)	0.4616	± 0.0219	(8)	0.4797	± 0.0142	(8)
Relative (mg/g)	1.53	± 0.05	(8)	1.55	± 0.09	(8)	1.56	± 0.04	(8)
Heart									
Absolute (g)	1.10	± 0.03	(8)	1.09	± 0.02	(8)	1.13	± 0.02	(8)
Relative (mg/g)	3.64	± 0.09	(8)	3.63	± 0.07	(8)	3.66	± 0.06	(8)
R. Kidney									
Absolute (g)	0.96	± 0.02	(8)	0.94	± 0.01	(8)	0.96	± 0.02	(8)
Relative (mg/g)	3.17	± 0.06	(8)	3.15	± 0.03	(8)	3.12	± 0.06	(8)
L. Kidney									
Absolute (g)	0.96	± 0.02	(8)	0.93	± 0.01	(8)	0.94	± 0.02	(8)
Relative (mg/g)	3.16	± 0.05	(8)	3.11	± 0.02	(8)	3.04	± 0.07	(8)
Liver									
Absolute (g)	12.18	± 0.18	(8)	11.63	± 0.25	(8)	11.92	± 0.23	(8)
Relative (mg/g)	40.29	± 0.45	(8)	38.78	± 0.61	(8)	38.71	± 0.40	(8)
Lung									
Absolute (g)	1.84	± 0.06	(8) *	2.04	± 0.06	(8) *	1.97	± 0.11	(8)
Relative (mg/g)	6.08	± 0.18	(8) *	6.82	± 0.19	(8) *	6.37	± 0.31	(8)
R. Testis									
Absolute (g)	1.811	± 0.052	(8)	1.786	± 0.025	(8)	1.802	± 0.020	(8)
Relative (mg/g)	5.99	± 0.18	(8)	5.96	± 0.09	(8)	5.86	± 0.08	(8)

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Lab: Battelle with CRL

Males: 1 Day Recovery

	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
L. Testis			
Absolute (g)	1.785 ± 0.046 (8)	1.793 ± 0.041 (8)	1.789 ± 0.021 (8)
Relative (mg/g)	5.91 ± 0.15 (8)	5.98 ± 0.13 (8)	5.81 ± 0.07 (8)
Thymus			
Absolute (g)	0.425 ± 0.025 (8)	0.453 ± 0.025 (8)	0.430 ± 0.012 (8)
Relative (mg/g)	1.40 ± 0.08 (8)	1.51 ± 0.08 (8)	1.40 ± 0.04 (8)

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CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

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Lab: Battelle with CRL

Males: 5 Day Exposure

	Treatment Groups (ppm)														
	0			0.3			1			3			10		
Terminal Body Wt. (g)	280.5	± 4.1	(8) **	287.4	± 3.1	(8)	288.4	± 2.1	(8)	280.4	± 2.7	(8)	247.5	± 4.0	(8) **
Brain															
Absolute (g)	1.80	± 0.02	(8)	1.81	± 0.02	(8)	1.82	± 0.02	(8)	1.81	± 0.02	(8)	1.81	± 0.03	(8)
Relative (mg/g)	6.41	± 0.10	(8) **	6.30	± 0.12	(8)	6.30	± 0.04	(8)	6.47	± 0.10	(8)	7.30	± 0.15	(8) **
R. Epididymis															
Absolute (g)	0.4267 ± 0.0119 (8)			0.4313 ± 0.0109 (7)			0.4465 ± 0.0144 (8)			0.4235 ± 0.0134 (8)			0.4268 ± 0.0059 (8)		
Relative (mg/g)	1.52	± 0.05	(8) *	1.51	± 0.04	(7)	1.55	± 0.05	(8)	1.51	± 0.04	(8)	1.73	± 0.03	(8) **
L. Epididymis															
Absolute (g)	0.4307 ± 0.0144 (8)			0.4274 ± 0.0112 (8)			0.4382 ± 0.0142 (8)			0.4205 ± 0.0130 (8)			0.4156 ± 0.0079 (8)		
Relative (mg/g)	1.54	± 0.05	(8)	1.49	± 0.04	(8)	1.52	± 0.05	(8)	1.50	± 0.04	(8)	1.68	± 0.04	(8)
Heart															
Absolute (g)	1.02	± 0.02	(8)	1.07	± 0.03	(8)	1.08	± 0.02	(8)	1.01	± 0.02	(8)	0.98	± 0.03	(8)
Relative (mg/g)	3.63	± 0.05	(8)	3.70	± 0.07	(8)	3.76	± 0.06	(8)	3.60	± 0.05	(8)	3.98	± 0.12	(8) *
R. Kidney															
Absolute (g)	0.88	± 0.03	(8)	0.94	± 0.01	(8)	1.01	± 0.03	(8) **	0.88	± 0.03	(8)	0.87	± 0.03	(8)
Relative (mg/g)	3.14	± 0.07	(8) *	3.27	± 0.04	(8)	3.50	± 0.11	(8) *	3.13	± 0.07	(8)	3.49	± 0.09	(8) *
L. Kidney															
Absolute (g)	0.86	± 0.03	(8)	0.94	± 0.02	(8)	0.99	± 0.03	(8) **	0.88	± 0.03	(8)	0.85	± 0.02	(8)
Relative (mg/g)	3.06	± 0.09	(8) *	3.26	± 0.06	(8)	3.44	± 0.09	(8) **	3.13	± 0.08	(8)	3.42	± 0.07	(8) **
Liver															
Absolute (g)	10.99	± 0.35	(8) **	11.14	± 0.29	(8)	11.84	± 0.38	(8)	10.44	± 0.42	(8)	8.24	± 0.32	(8) **
Relative (mg/g)	39.15	± 0.87	(8) **	38.72	± 0.74	(8)	41.04	± 1.15	(8)	37.18	± 1.23	(8)	33.26	± 1.06	(8) **
Lung															
Absolute (g)	1.51	± 0.04	(8) **	1.54	± 0.04	(8)	1.69	± 0.07	(8)	2.04	± 0.07	(8) **	4.52	± 0.12	(8) **
Relative (mg/g)	5.40	± 0.15	(8) **	5.37	± 0.15	(8)	5.85	± 0.23	(8)	7.28	± 0.23	(8) **	18.25	± 0.41	(8) **
R. Testis															
Absolute (g)	1.702	± 0.042	(8)	1.701	± 0.027	(8)	1.780	± 0.030	(8)	1.683	± 0.050	(8)	1.673	± 0.036	(8)
Relative (mg/g)	6.08	± 0.18	(8) **	5.92	± 0.09	(8)	6.17	± 0.10	(8)	6.00	± 0.15	(8)	6.76	± 0.12	(8) **

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CAS Number: 18107-18-1

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Lab: Battelle with CRL

Males: 5 Day Exposure

Treatment Groups (ppm)

	0	0.3	1	3	10
L. Testis					
Absolute (g)	1.712 ± 0.037 (8)	1.689 ± 0.033 (8)	1.769 ± 0.023 (8)	1.718 ± 0.051 (8)	1.671 ± 0.035 (8)
Relative (mg/g)	6.11 ± 0.16 (8) **	5.88 ± 0.09 (8)	6.13 ± 0.07 (8)	6.12 ± 0.15 (8)	6.76 ± 0.13 (8) **
Thymus					
Absolute (g)	0.369 ± 0.016 (8)	0.401 ± 0.024 (8)	0.390 ± 0.014 (8)	0.399 ± 0.029 (8)	0.416 ± 0.029 (8)
Relative (mg/g)	1.31 ± 0.05 (8) *	1.39 ± 0.07 (8)	1.35 ± 0.05 (8)	1.42 ± 0.10 (8)	1.68 ± 0.12 (8) *

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Lab: Battelle with CRL

Males: 5 Day Exposure

Treatment Groups (ppm)

25 ppm Hexanes

Terminal Body Wt. (g)	283.3	± 4.1	(8)
Brain			
Absolute (g)	1.81	± 0.02	(8)
Relative (mg/g)	6.38	± 0.10	(8)
R. Epididymis			
Absolute (g)	0.4426	± 0.0137	(8)
Relative (mg/g)	1.56	± 0.04	(8)
L. Epididymis			
Absolute (g)	0.4322	± 0.0135	(8)
Relative (mg/g)	1.52	± 0.04	(8)
Heart			
Absolute (g)	1.05	± 0.02	(8)
Relative (mg/g)	3.71	± 0.08	(8)
R. Kidney			
Absolute (g)	0.90	± 0.02	(8)
Relative (mg/g)	3.17	± 0.07	(8)
L. Kidney			
Absolute (g)	0.91	± 0.02	(8)
Relative (mg/g)	3.23	± 0.08	(8)
Liver			
Absolute (g)	10.93	± 0.30	(8)
Relative (mg/g)	38.57	± 0.70	(8)
Lung			
Absolute (g)	1.56	± 0.06	(8)
Relative (mg/g)	5.49	± 0.17	(8)
R. Testis			
Absolute (g)	1.769	± 0.041	(8)
Relative (mg/g)	6.26	± 0.19	(8)

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Treatment Groups (ppm)

25 ppm Hexanes

L. Testis

Absolute (g) 1.739 ± 0.041 (8)

Relative (mg/g) 6.15 ± 0.17 (8)

Thymus

Absolute (g) 0.367 ± 0.018 (8)

Relative (mg/g) 1.29 ± 0.05 (8)

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Lab: Battelle with CRL

Males: 5 Day Recovery

	Treatment Groups (ppm)														
	0			0.3			1			3			10		
Terminal Body Wt. (g)	303.2	± 3.6	(8) **	306.0	± 2.9	(8)	301.7	± 3.0	(8)	303.0	± 3.6	(8)	271.6	± 1.8	(8) **
Brain															
Absolute (g)	1.83	± 0.02	(8)	1.81	± 0.02	(8)	1.85	± 0.02	(8)	1.86	± 0.02	(8)	1.77	± 0.02	(8)
Relative (mg/g)	6.03	± 0.06	(8) **	5.90	± 0.07	(8)	6.15	± 0.06	(8)	6.16	± 0.09	(8)	6.53	± 0.10	(8) **
R. Epididymis															
Absolute (g)	0.4795 ± 0.0212 (8)			0.4816 ± 0.0248 (8)			0.4630 ± 0.0141 (8)			0.4597 ± 0.0196 (8)			0.4282 ± 0.0137 (8)		
Relative (mg/g)	1.58	± 0.07	(8)	1.57	± 0.07	(8)	1.54	± 0.05	(8)	1.52	± 0.06	(8)	1.58	± 0.05	(8)
L. Epididymis															
Absolute (g)	0.4716 ± 0.0183 (8)			0.4683 ± 0.0217 (8)			0.4627 ± 0.0095 (8)			0.4790 ± 0.0181 (8)			0.4350 ± 0.0162 (8)		
Relative (mg/g)	1.56	± 0.06	(8)	1.53	± 0.06	(8)	1.53	± 0.03	(8)	1.58	± 0.06	(8)	1.60	± 0.06	(8)
Heart															
Absolute (g)	1.07	± 0.02	(8) *	1.14	± 0.03	(8)	1.09	± 0.01	(8)	1.08	± 0.03	(8)	0.99	± 0.02	(8) *
Relative (mg/g)	3.53	± 0.05	(8)	3.71	± 0.05	(8)	3.61	± 0.05	(8)	3.55	± 0.08	(8)	3.65	± 0.08	(8)
R. Kidney															
Absolute (g)	1.00	± 0.03	(8) *	0.96	± 0.02	(8)	0.96	± 0.02	(8)	0.96	± 0.02	(8)	0.91	± 0.02	(8) *
Relative (mg/g)	3.30	± 0.08	(8)	3.12	± 0.05	(8)	3.18	± 0.07	(8)	3.16	± 0.06	(8)	3.36	± 0.06	(8)
L. Kidney															
Absolute (g)	1.00	± 0.02	(8) **	0.94	± 0.02	(8)	0.95	± 0.02	(8)	0.95	± 0.01	(8)	0.88	± 0.02	(8) **
Relative (mg/g)	3.31	± 0.07	(8)	3.08	± 0.06	(8) *	3.13	± 0.05	(8)	3.12	± 0.04	(8)	3.24	± 0.08	(8)
Liver															
Absolute (g)	11.50	± 0.27	(8)	12.11	± 0.23	(8)	11.59	± 0.15	(8)	11.75	± 0.24	(8)	11.39	± 0.20	(8)
Relative (mg/g)	37.91	± 0.60	(8) **	39.58	± 0.58	(8)	38.42	± 0.44	(8)	38.78	± 0.56	(8)	41.94	± 0.66	(8) **
Lung															
Absolute (g)	1.75	± 0.07	(8) **	2.33	± 0.13	(8) **	2.14	± 0.16	(8) *	2.67	± 0.16	(8) **	3.58	± 0.07	(8) **
Relative (mg/g)	5.76	± 0.19	(8) **	7.59	± 0.37	(8) **	7.08	± 0.51	(8) **	8.78	± 0.47	(8) **	13.19	± 0.24	(8) **
R. Testis															
Absolute (g)	1.777	± 0.020	(8)	1.744	± 0.044	(8)	1.721	± 0.022	(8)	1.789	± 0.066	(8)	1.660	± 0.040	(8)
Relative (mg/g)	5.86	± 0.09	(8)	5.70	± 0.10	(8)	5.71	± 0.10	(8)	5.90	± 0.18	(8)	6.11	± 0.13	(8)

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Lab: Battelle with CRL

Males: 5 Day Recovery

Treatment Groups (ppm)

	0	0.3	1	3	10
L. Testis					
Absolute (g)	1.792 ± 0.030 (8)	1.726 ± 0.040 (8)	1.706 ± 0.024 (8)	1.841 ± 0.045 (8)	1.668 ± 0.035 (8)
Relative (mg/g)	5.91 ± 0.10 (8) *	5.64 ± 0.09 (8)	5.66 ± 0.11 (8)	6.07 ± 0.12 (8)	6.14 ± 0.11 (8)
Thymus					
Absolute (g)	0.413 ± 0.016 (8)	0.446 ± 0.015 (8)	0.438 ± 0.016 (8)	0.463 ± 0.022 (8)	0.437 ± 0.021 (8)
Relative (mg/g)	1.36 ± 0.06 (8) **	1.46 ± 0.05 (8)	1.45 ± 0.04 (8)	1.53 ± 0.06 (8)	1.61 ± 0.07 (8) **

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Lab: Battelle with CRL

Males: 5 Day Recovery

Treatment Groups (ppm)

25 ppm Hexanes

Terminal Body Wt. (g)	296.5	± 3.1	(8)
Brain			
Absolute (g)	1.81	± 0.02	(8)
Relative (mg/g)	6.11	± 0.05	(8)
R. Epididymis			
Absolute (g)	0.4770	± 0.0175	(8)
Relative (mg/g)	1.61	± 0.06	(8)
L. Epididymis			
Absolute (g)	0.4724	± 0.0172	(8)
Relative (mg/g)	1.60	± 0.06	(8)
Heart			
Absolute (g)	1.05	± 0.02	(8)
Relative (mg/g)	3.55	± 0.07	(8)
R. Kidney			
Absolute (g)	0.94	± 0.02	(8)
Relative (mg/g)	3.16	± 0.08	(8)
L. Kidney			
Absolute (g)	0.96	± 0.02	(8)
Relative (mg/g)	3.23	± 0.10	(8)
Liver			
Absolute (g)	11.08	± 0.19	(8)
Relative (mg/g)	37.34	± 0.34	(8)
Lung			
Absolute (g)	1.82	± 0.08	(8)
Relative (mg/g)	6.15	± 0.24	(8)
R. Testis			
Absolute (g)	1.759	± 0.029	(8)
Relative (mg/g)	5.93	± 0.09	(8)

Study Number: C11049-01

Test Type: TOX

Route: Nose-Only Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 07:52:57

Lab: Battelle with CRL

Males: 5 Day Recovery

Treatment Groups (ppm)

25 ppm Hexanes

L. Testis

Absolute (g) 1.701 ± 0.028 (8)

Relative (mg/g) 5.74 ± 0.09 (8)

Thymus

Absolute (g) 0.416 ± 0.020 (8)

Relative (mg/g) 1.40 ± 0.06 (8)

Study Number: C11049-01

Test Type: TOX

Route: Nose-Only Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

PA06: Organ Weights Summary

Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 07:52:57

Lab: Battelle with CRL

LEGEND

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.

One value for R. Epididymis weight in the 0.3 mg/kg group for the 5 Day Exposure selection was excluded because it was an outlier.

**** END OF REPORT ****