

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA06: Organ Weights Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

C11054-01

Both

See web page for date of PWG Approval

Date Report Requested: 11/13/2018

Time Report Requested: 15:30:39

Lab: Battelle

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Lab: Battelle

Males: Male Core

	Treatment Groups (mg/kg)														
	0			1			10			30			100		
Terminal Body Wt.	305.3	± 8.2	(10) *	307.1	± 5.3	(10)	306.7	± 4.2	(10)	303.0	± 5.6	(10)	306.2	± 6.0	(10)
R. Epididymis															
Absolute (g)	0.4462 ± 0.0106 (10)			0.4419 ± 0.0084 (10)			0.4440 ± 0.0151 (10)			0.4501 ± 0.0107 (10)			0.4408 ± 0.0107 (10)		
Relative (mg/g)	1.47 ± 0.04 (10)			1.44 ± 0.02 (10)			1.45 ± 0.04 (10)			1.49 ± 0.03 (10)			1.44 ± 0.04 (10)		
L. Epididymis															
Absolute (g)	0.4152 ± 0.0102 (10)			0.4319 ± 0.0096 (10)			0.4296 ± 0.0164 (10)			0.4378 ± 0.0110 (10)			0.4271 ± 0.0066 (10)		
Relative (mg/g)	1.36 ± 0.03 (10)			1.41 ± 0.03 (10)			1.40 ± 0.05 (10)			1.45 ± 0.04 (10)			1.40 ± 0.04 (10)		
Heart															
Absolute (g)	1.19 ± 0.04 (10)			1.28 ± 0.04 (10)			1.22 ± 0.03 (10)			1.23 ± 0.02 (10)			1.22 ± 0.03 (10)		
Relative (mg/g)	3.88 ± 0.09 (10)			4.19 ± 0.11 (10) *			3.97 ± 0.07 (10)			4.08 ± 0.07 (10)			3.99 ± 0.06 (10)		
R. Kidney															
Absolute (g)	1.06 ± 0.04 (10) **			1.11 ± 0.03 (10)			1.11 ± 0.02 (10)			1.13 ± 0.03 (10)			1.11 ± 0.03 (10)		
Relative (mg/g)	3.48 ± 0.08 (10) **			3.60 ± 0.10 (10)			3.62 ± 0.07 (10)			3.73 ± 0.05 (10)			3.61 ± 0.05 (10)		
L. Kidney															
Absolute (g)	1.04 ± 0.04 (10) **			1.08 ± 0.02 (10)			1.10 ± 0.02 (10)			1.09 ± 0.03 (10)			1.10 ± 0.02 (10)		
Relative (mg/g)	3.41 ± 0.08 (10) **			3.52 ± 0.06 (10)			3.59 ± 0.07 (10)			3.58 ± 0.07 (10)			3.60 ± 0.04 (10)		
Liver															
Absolute (g)	13.08 ± 0.52 (10) **			13.23 ± 0.27 (10)			13.63 ± 0.41 (10)			13.45 ± 0.35 (10)			13.43 ± 0.39 (10)		
Relative (mg/g)	42.78 ± 1.09 (10) **			43.14 ± 0.91 (10)			44.46 ± 1.26 (10)			44.37 ± 0.72 (10)			43.87 ± 0.88 (10)		
Lung															
Absolute (g)	2.14 ± 0.19 (10)			2.09 ± 0.09 (10)			2.01 ± 0.10 (10)			2.08 ± 0.12 (10)			2.18 ± 0.10 (10)		
Relative (mg/g)	6.96 ± 0.50 (10) *			6.81 ± 0.32 (10)			6.55 ± 0.30 (10)			6.85 ± 0.37 (10)			7.11 ± 0.21 (10)		
Spleen															
Absolute (g)	0.664 ± 0.037 (10) *			0.673 ± 0.019 (10)			0.701 ± 0.028 (10)			0.714 ± 0.026 (10)			0.694 ± 0.027 (10)		
Relative (mg/g)	2.17 ± 0.09 (10) *			2.20 ± 0.06 (10)			2.28 ± 0.08 (10)			2.36 ± 0.09 (10)			2.26 ± 0.07 (10)		
R. Testis															
Absolute (g)	1.813 ± 0.030 (10)			1.755 ± 0.019 (10)			1.717 ± 0.031 (10)			1.791 ± 0.031 (10)			1.701 ± 0.031 (10) *		
Relative (mg/g)	5.96 ± 0.13 (10)			5.73 ± 0.10 (10)			5.61 ± 0.11 (10)			5.92 ± 0.11 (10)			5.56 ± 0.10 (10)		

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PA06: Organ Weights Summary

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Lab: Battelle

Males: Male Core

	Treatment Groups (mg/kg)				
	0	1	10	30	100
L. Testis					
Absolute (g)	1.797 ± 0.032 (10)	1.757 ± 0.027 (10)	1.706 ± 0.028 (10)	1.754 ± 0.022 (10)	1.712 ± 0.025 (10)
Relative (mg/g)	5.91 ± 0.13 (10)	5.73 ± 0.12 (10)	5.57 ± 0.09 (10)	5.80 ± 0.10 (10)	5.61 ± 0.11 (10)
Thymus					
Absolute (g)	0.493 ± 0.015 (10)	0.550 ± 0.024 (10)	0.546 ± 0.022 (10)	0.513 ± 0.022 (10)	0.542 ± 0.032 (10)
Relative (mg/g)	1.63 ± 0.08 (10)	1.79 ± 0.08 (10)	1.78 ± 0.06 (10)	1.69 ± 0.06 (10)	1.77 ± 0.08 (10)

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Lab: Battelle

Males: Male Core

	Treatment Groups (mg/kg)					
	300			800		
Terminal Body Wt.	296.8	± 6.5	(10)	291.6	± 3.9	(10)
R. Epididymis						
Absolute (g)	0.4282	± 0.0154	(10)	0.4313	± 0.0118	(10)
Relative (mg/g)	1.45	± 0.05	(10)	1.48	± 0.04	(10)
L. Epididymis						
Absolute (g)	0.4164	± 0.0117	(10)	0.4224	± 0.0105	(10)
Relative (mg/g)	1.41	± 0.04	(10)	1.45	± 0.04	(10)
Heart						
Absolute (g)	1.20	± 0.03	(10)	1.15	± 0.02	(10)
Relative (mg/g)	4.04	± 0.04	(10)	3.95	± 0.05	(10)
R. Kidney						
Absolute (g)	1.19	± 0.03	(10) **	1.22	± 0.03	(10) **
Relative (mg/g)	4.03	± 0.06	(10) **	4.19	± 0.09	(10) **
L. Kidney						
Absolute (g)	1.20	± 0.03	(10) **	1.21	± 0.03	(10) **
Relative (mg/g)	4.04	± 0.07	(10) **	4.16	± 0.10	(10) **
Liver						
Absolute (g)	14.46	± 0.46	(10) *	15.92	± 0.45	(10) **
Relative (mg/g)	48.72	± 1.10	(10) **	54.56	± 1.07	(10) **
Lung						
Absolute (g)	2.31	± 0.10	(10)	2.21	± 0.20	(10)
Relative (mg/g)	7.79	± 0.30	(10)	7.62	± 0.70	(10)
Spleen						
Absolute (g)	0.639	± 0.022	(10)	0.575	± 0.022	(10)
Relative (mg/g)	2.15	± 0.05	(10)	1.97	± 0.06	(10)
R. Testis						
Absolute (g)	1.720	± 0.024	(10)	1.764	± 0.030	(10)
Relative (mg/g)	5.82	± 0.13	(10)	6.05	± 0.10	(10)

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Lab: Battelle

Males: Male Core

	Treatment Groups (mg/kg)	
	300	800
L. Testis		
Absolute (g)	1.685 ± 0.026 (10) *	1.754 ± 0.023 (10)
Relative (mg/g)	5.70 ± 0.14 (10)	6.02 ± 0.10 (10)
Thymus		
Absolute (g)	0.474 ± 0.018 (10)	0.490 ± 0.024 (10)
Relative (mg/g)	1.60 ± 0.07 (10)	1.68 ± 0.07 (10)

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Lab: Battelle

Females: Female Core

	Treatment Groups (mg/kg)														
	0			1			10			30			100		
Terminal Body Wt.	207.0	± 4.4	(10)	202.0	± 4.6	(10)	198.7	± 4.4	(10)	197.9	± 3.7	(10)	194.9	± 3.9	(10)
Heart															
Absolute (g)	0.88	± 0.02	(10)	0.88	± 0.02	(10)	0.81	± 0.02	(10)	0.83	± 0.02	(10)	0.84	± 0.02	(10)
Relative (mg/g)	4.25	± 0.11	(10)	4.35	± 0.07	(10)	4.10	± 0.07	(10)	4.20	± 0.09	(10)	4.32	± 0.09	(10)
R. Kidney															
Absolute (g)	0.71	± 0.02	(10) *	0.72	± 0.02	(10)	0.66	± 0.01	(10)	0.71	± 0.02	(10)	0.68	± 0.01	(10)
Relative (mg/g)	3.43	± 0.06	(10) **	3.57	± 0.04	(10)	3.35	± 0.06	(10)	3.58	± 0.06	(10)	3.48	± 0.05	(10)
L. Kidney															
Absolute (g)	0.70	± 0.02	(10) *	0.72	± 0.02	(10)	0.65	± 0.01	(10)	0.69	± 0.02	(10)	0.68	± 0.01	(10)
Relative (mg/g)	3.37	± 0.06	(10) **	3.54	± 0.06	(10)	3.29	± 0.05	(10)	3.47	± 0.05	(10)	3.48	± 0.07	(10)
Liver															
Absolute (g)	8.30	± 0.29	(10)	8.29	± 0.28	(10)	7.91	± 0.27	(10)	7.98	± 0.23	(10)	7.92	± 0.30	(10)
Relative (mg/g)	40.03	± 0.79	(10) **	40.99	± 0.89	(10)	39.78	± 0.87	(10)	40.29	± 0.65	(10)	40.54	± 0.89	(10)
Lung															
Absolute (g)	1.66	± 0.13	(10) **	1.64	± 0.08	(10)	1.54	± 0.06	(10)	1.55	± 0.07	(10)	1.53	± 0.02	(10)
Relative (mg/g)	8.01	± 0.53	(10) **	8.10	± 0.33	(10)	7.75	± 0.24	(10)	7.85	± 0.39	(10)	7.90	± 0.17	(10)
R. Ovary															
Absolute (g)	0.0532 ± 0.0020 (10)			0.0575 ± 0.0035 (10)			0.0521 ± 0.0023 (10)			0.0558 ± 0.0018 (10)			0.0650 ± 0.0037 (10) *		
Relative (mg/g)	0.26 ± 0.01 (10) *			0.29 ± 0.02 (10)			0.26 ± 0.01 (10)			0.28 ± 0.01 (10)			0.33 ± 0.02 (10) **		
L. Ovary															
Absolute (g)	0.0591 ± 0.0016 (10)			0.0566 ± 0.0033 (10)			0.0568 ± 0.0031 (10)			0.0544 ± 0.0024 (10)			0.0556 ± 0.0025 (10)		
Relative (mg/g)	0.29 ± 0.01 (10)			0.28 ± 0.02 (10)			0.29 ± 0.02 (10)			0.27 ± 0.01 (10)			0.29 ± 0.01 (10)		
Spleen															
Absolute (g)	0.548 ± 0.024 (10) *			0.554 ± 0.019 (10)			0.528 ± 0.014 (10)			0.524 ± 0.017 (10)			0.553 ± 0.024 (10)		
Relative (mg/g)	2.65 ± 0.11 (10)			2.74 ± 0.05 (10)			2.66 ± 0.07 (10)			2.64 ± 0.05 (10)			2.84 ± 0.12 (10)		
Thymus															
Absolute (g)	0.417 ± 0.022 (10)			0.398 ± 0.024 (10)			0.350 ± 0.024 (10)			0.407 ± 0.023 (10)			0.362 ± 0.015 (10)		
Relative (mg/g)	2.01 ± 0.09 (10)			1.96 ± 0.08 (10)			1.77 ± 0.14 (10)			2.05 ± 0.10 (10)			1.86 ± 0.09 (10)		

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Lab: Battelle

Females: Female Core

	Treatment Groups (mg/kg)					
	300			800		
Terminal Body Wt.	191.9	± 4.2	(10)	200.9	± 3.4	(10)
Heart						
Absolute (g)	0.83	± 0.02	(10)	0.88	± 0.03	(10)
Relative (mg/g)	4.32	± 0.07	(10)	4.36	± 0.08	(10)
R. Kidney						
Absolute (g)	0.72	± 0.02	(10)	0.79	± 0.02	(10) **
Relative (mg/g)	3.76	± 0.05	(10) **	3.93	± 0.05	(10) **
L. Kidney						
Absolute (g)	0.71	± 0.02	(10)	0.77	± 0.02	(10) *
Relative (mg/g)	3.72	± 0.07	(10) **	3.85	± 0.06	(10) **
Liver						
Absolute (g)	8.39	± 0.27	(10)	9.53	± 0.39	(10) *
Relative (mg/g)	43.65	± 0.84	(10) *	47.35	± 1.53	(10) **
Lung						
Absolute (g)	1.75	± 0.07	(10)	1.96	± 0.07	(10) **
Relative (mg/g)	9.12	± 0.28	(10) *	9.79	± 0.35	(10) **
R. Ovary						
Absolute (g)	0.0553	± 0.0028	(10)	0.0586	± 0.0037	(10)
Relative (mg/g)	0.29	± 0.01	(10)	0.29	± 0.02	(10)
L. Ovary						
Absolute (g)	0.0587	± 0.0038	(10)	0.0644	± 0.0045	(10)
Relative (mg/g)	0.31	± 0.02	(10)	0.32	± 0.02	(10)
Spleen						
Absolute (g)	0.522	± 0.018	(10)	0.473	± 0.013	(10) *
Relative (mg/g)	2.71	± 0.04	(10)	2.35	± 0.05	(10) *
Thymus						
Absolute (g)	0.367	± 0.022	(10)	0.358	± 0.023	(10)
Relative (mg/g)	1.91	± 0.10	(10)	1.78	± 0.11	(10)

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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 for F0 animals performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

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 $P \leq 0.01$

**** END OF REPORT ****