

Study Number: C11054-03
Test Type: TOX
Route: Oral Gavage
Species/Strain: Guinea Pig/Hartley

PA06: Organ Weights Summary
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 11/14/2018
Time Report Requested: 06:05:08
Lab: Battelle

C Number:

C11054-03

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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Males: Male Core

	Treatment Groups (mg/kg)														
	0			1			10			30			100		
Terminal Body Wt.	617.7	± 9.9	(20)	604.4	± 9.2	(10)	626.7	± 9.8	(10)	628.3	± 9.9	(10)	628.6	± 7.1	(10)
R. Epididymis															
Absolute (g)	0.2837 ± 0.0184 (20)			0.2540 ± 0.0182 (10)			0.2348 ± 0.0247 (10)			0.2423 ± 0.0216 (10)			0.2947 ± 0.0230 (10)		
Relative (mg/g)	0.46 ± 0.03 (20)			0.42 ± 0.03 (10)			0.37 ± 0.03 (10)			0.39 ± 0.03 (10)			0.47 ± 0.04 (10)		
L. Epididymis															
Absolute (g)	0.2580 ± 0.0159 (20)			0.2291 ± 0.0092 (10)			0.2364 ± 0.0218 (10)			0.2254 ± 0.0179 (10)			0.2555 ± 0.0148 (10)		
Relative (mg/g)	0.42 ± 0.02 (20)			0.38 ± 0.02 (10)			0.37 ± 0.03 (10)			0.36 ± 0.03 (10)			0.41 ± 0.02 (10)		
Heart															
Absolute (g)	2.67 ± 0.11 (20)			2.59 ± 0.12 (10)			2.68 ± 0.11 (10)			2.75 ± 0.14 (10)			2.81 ± 0.11 (10)		
Relative (mg/g)	4.31 ± 0.15 (20)			4.29 ± 0.21 (10)			4.30 ± 0.22 (10)			4.36 ± 0.18 (10)			4.47 ± 0.18 (10)		
R. Kidney															
Absolute (g)	2.39 ± 0.05 (20)			2.23 ± 0.07 (10)			2.35 ± 0.06 (10)			2.34 ± 0.07 (10)			2.35 ± 0.05 (10)		
Relative (mg/g)	3.87 ± 0.06 (20)			3.70 ± 0.10 (10)			3.74 ± 0.08 (10)			3.72 ± 0.09 (10)			3.75 ± 0.09 (10)		
L. Kidney															
Absolute (g)	2.47 ± 0.05 (20)			2.26 ± 0.08 (10)			2.42 ± 0.06 (10)			2.43 ± 0.05 (10)			2.40 ± 0.05 (10)		
Relative (mg/g)	3.99 ± 0.06 (20)			3.73 ± 0.11 (10)			3.86 ± 0.09 (10)			3.87 ± 0.06 (10)			3.82 ± 0.08 (10)		
Liver															
Absolute (g)	24.20 ± 1.05 (20)			23.28 ± 1.05 (10)			23.21 ± 0.99 (10)			24.56 ± 1.24 (10)			25.65 ± 1.22 (10)		
Relative (mg/g)	38.94 ± 1.18 (20)			38.39 ± 1.25 (10)			36.98 ± 1.27 (10)			38.98 ± 1.58 (10)			40.82 ± 1.92 (10)		
Lung															
Absolute (g)	6.10 ± 0.49 (20)			5.14 ± 0.26 (10)			6.04 ± 0.51 (10)			6.66 ± 0.62 (10)			6.75 ± 0.46 (10)		
Relative (mg/g)	9.83 ± 0.73 (20)			8.53 ± 0.48 (10)			9.66 ± 0.83 (10)			10.58 ± 0.94 (10)			10.75 ± 0.74 (10)		
Spleen															
Absolute (g)	0.725 ± 0.025 (20)			0.708 ± 0.028 (10)			0.690 ± 0.027 (10)			0.700 ± 0.030 (10)			0.722 ± 0.028 (10)		
Relative (mg/g)	1.17 ± 0.03 (20)			1.17 ± 0.05 (10)			1.10 ± 0.04 (10)			1.11 ± 0.04 (10)			1.15 ± 0.04 (10)		
R. Testis															
Absolute (g)	1.242 ± 0.033 (20)			1.223 ± 0.027 (10)			1.297 ± 0.036 (10)			1.331 ± 0.061 (10)			1.312 ± 0.058 (10)		
Relative (mg/g)	2.02 ± 0.06 (20)			2.03 ± 0.05 (10)			2.07 ± 0.07 (10)			2.12 ± 0.08 (10)			2.08 ± 0.07 (10)		

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Treatment Groups (mg/kg)

	0	1	10	30	100
L. Testis					
Absolute (g)	1.233 ± 0.033 (20)	1.233 ± 0.027 (10)	1.298 ± 0.034 (10)	1.304 ± 0.054 (10)	1.315 ± 0.057 (10)
Relative (mg/g)	2.00 ± 0.06 (20)	2.04 ± 0.04 (10)	2.08 ± 0.07 (10)	2.07 ± 0.08 (10)	2.09 ± 0.07 (10)
Thymus					
Absolute (g)	0.651 ± 0.019 (20)	0.588 ± 0.034 (10)	0.632 ± 0.046 (10)	0.681 ± 0.034 (10)	0.654 ± 0.055 (10)
Relative (mg/g)	1.06 ± 0.04 (20)	0.97 ± 0.06 (10)	1.01 ± 0.07 (10)	1.08 ± 0.04 (10)	1.04 ± 0.09 (10)

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	Treatment Groups		
	300		
Terminal Body Wt.	613.1	± 13.2	(10)
R. Epididymis			
Absolute (g)	0.2314	± 0.0154	(10)
Relative (mg/g)	0.38	± 0.03	(10)
L. Epididymis			
Absolute (g)	0.2456	± 0.0145	(10)
Relative (mg/g)	0.40	± 0.02	(10)
Heart			
Absolute (g)	2.81	± 0.14	(10)
Relative (mg/g)	4.58	± 0.21	(10)
R. Kidney			
Absolute (g)	2.36	± 0.09	(10)
Relative (mg/g)	3.85	± 0.14	(10)
L. Kidney			
Absolute (g)	2.38	± 0.08	(10)
Relative (mg/g)	3.88	± 0.11	(10)
Liver			
Absolute (g)	22.12	± 0.94	(10)
Relative (mg/g)	36.04	± 1.20	(10)
Lung			
Absolute (g)	5.61	± 0.43	(10)
Relative (mg/g)	9.23	± 0.80	(10)
Spleen			
Absolute (g)	0.734	± 0.031	(10)
Relative (mg/g)	1.20	± 0.04	(10)
R. Testis			
Absolute (g)	1.178	± 0.077	(10)
Relative (mg/g)	1.93	± 0.12	(10)

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Treatment Groups

300

L. Testis

Absolute (g) 1.228 ± 0.051 (10)

Relative (mg/g) 2.00 ± 0.06 (10)

Thymus

Absolute (g) 0.686 ± 0.049 (10)

Relative (mg/g) 1.13 ± 0.09 (10)

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Females: Female Core

	Treatment Groups (mg/kg)														
	0			1			10			30			100		
Terminal Body Wt.	529.7	± 11.4	(20)	527.5	± 11.4	(10)	531.2	± 10.7	(10)	519.5	± 6.9	(10)	519.0	± 8.5	(10)
Heart															
Absolute (g)	2.35	± 0.09	(20)	2.63	± 0.14	(10)	2.29	± 0.15	(10)	2.52	± 0.18	(10)	2.65	± 0.14	(10)
Relative (mg/g)	4.43	± 0.15	(20) *	4.98	± 0.21	(10)	4.31	± 0.26	(10)	4.84	± 0.30	(10)	5.12	± 0.30	(10)
R. Kidney															
Absolute (g)	1.97	± 0.05	(20)	2.04	± 0.07	(10)	2.01	± 0.05	(10)	2.02	± 0.06	(10)	2.03	± 0.05	(10)
Relative (mg/g)	3.73	± 0.05	(20) *	3.88	± 0.11	(10)	3.78	± 0.07	(10)	3.89	± 0.07	(10)	3.92	± 0.10	(10)
L. Kidney															
Absolute (g)	2.03	± 0.04	(20)	2.13	± 0.07	(10)	2.06	± 0.05	(10)	2.03	± 0.06	(10)	2.08	± 0.05	(10)
Relative (mg/g)	3.84	± 0.05	(20)	4.04	± 0.12	(10)	3.87	± 0.06	(10)	3.90	± 0.08	(10)	4.01	± 0.11	(10)
Liver															
Absolute (g)	19.77	± 0.86	(20)	18.98	± 0.80	(10)	20.04	± 1.08	(10)	18.16	± 1.03	(10)	19.13	± 0.42	(10)
Relative (mg/g)	37.06	± 1.00	(20)	35.86	± 0.90	(10)	37.54	± 1.42	(10)	34.85	± 1.68	(10)	36.89	± 0.79	(10)
Lung															
Absolute (g)	5.31	± 0.22	(20) *	6.15	± 0.35	(10)	5.50	± 0.49	(10)	6.26	± 0.36	(10)	6.52	± 0.59	(10)
Relative (mg/g)	10.07	± 0.41	(20) **	11.69	± 0.69	(10)	10.35	± 0.92	(10)	12.06	± 0.70	(10)	12.62	± 1.21	(10) *
R. Ovary															
Absolute (g)	0.1050 ± 0.0051	(20)	0.1169 ± 0.0086	(10)	0.1055 ± 0.0080	(10)	0.1007 ± 0.0069	(10)	0.0942 ± 0.0039	(10)					
Relative (mg/g)	0.20 ± 0.01	(20)	0.22 ± 0.02	(10)	0.20 ± 0.02	(10)	0.19 ± 0.01	(10)	0.18 ± 0.01	(10)					
L. Ovary															
Absolute (g)	0.1069 ± 0.0053	(20)	0.1115 ± 0.0085	(10)	0.1136 ± 0.0071	(10)	0.1057 ± 0.0065	(10)	0.1006 ± 0.0074	(10)					
Relative (mg/g)	0.20 ± 0.01	(20)	0.21 ± 0.02	(10)	0.21 ± 0.01	(10)	0.20 ± 0.01	(10)	0.19 ± 0.01	(10)					
Spleen															
Absolute (g)	0.761 ± 0.032	(20)	0.839 ± 0.038	(10)	0.724 ± 0.044	(10)	0.829 ± 0.084	(10)	0.726 ± 0.023	(10)					
Relative (mg/g)	1.44 ± 0.05	(20)	1.59 ± 0.07	(10)	1.36 ± 0.07	(10)	1.60 ± 0.16	(10)	1.40 ± 0.04	(10)					
Thymus															
Absolute (g)	1.011 ± 0.031	(20)	0.978 ± 0.058	(10)	1.036 ± 0.050	(10)	0.916 ± 0.046	(10)	0.953 ± 0.039	(10)					
Relative (mg/g)	1.92 ± 0.07	(20)	1.85 ± 0.09	(10)	1.95 ± 0.09	(10)	1.76 ± 0.08	(10)	1.84 ± 0.07	(10)					

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Females: Female Core

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	300		
Terminal Body Wt.	503.9	± 7.5	(10)
Heart			
Absolute (g)	2.60	± 0.15	(10)
Relative (mg/g)	5.17	± 0.30	(10)
R. Kidney			
Absolute (g)	1.99	± 0.05	(10)
Relative (mg/g)	3.95	± 0.07	(10)
L. Kidney			
Absolute (g)	2.05	± 0.05	(10)
Relative (mg/g)	4.07	± 0.07	(10)
Liver			
Absolute (g)	17.76	± 0.88	(10)
Relative (mg/g)	35.18	± 1.45	(10)
Lung			
Absolute (g)	6.36	± 0.45	(10)
Relative (mg/g)	12.65	± 0.92	(10) *
R. Ovary			
Absolute (g)	0.1018	± 0.0083	(10)
Relative (mg/g)	0.20	± 0.02	(10)
L. Ovary			
Absolute (g)	0.1038	± 0.0079	(10)
Relative (mg/g)	0.21	± 0.02	(10)
Spleen			
Absolute (g)	0.729	± 0.025	(10)
Relative (mg/g)	1.45	± 0.06	(10)
Thymus			
Absolute (g)	1.038	± 0.053	(10)
Relative (mg/g)	2.06	± 0.09	(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 ****