

Study Number: C11054B-01
Test Type: TOX
Route: Dosing in Water
Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 07/22/2021
Time Report Requested: 13:47:23
Lab: Battelle with CRL

Study Number: C11054B-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.2.7
Stat Version: S

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F1 Male: F1 Interim Animals

		Treatment Groups (mg/L)			
		0	30	100	300
Hematocrit (%)	PND 125 - 128	50.9 ± 0.5 (10)	50.2 ± 0.9 (7)	50.7 ± 1.0 (9)	49.0 ± 0.7 (9)
Percent of Control			98.8	99.7	96.2
Manual Hematocrit (%)	PND 125 - 128	48.6 ± 0.5 (10)	48.1 ± 0.9 (7)	48.9 ± 0.6 (9)	47.1 ± 0.8 (9)
Percent of Control			99.1	100.6	96.9
Hemoglobin (g/dL)	PND 125 - 128	15.6 ± 0.2 (10)	15.5 ± 0.3 (7)	15.8 ± 0.3 (9)	15.2 ± 0.2 (9)
Percent of Control			99.0	100.9	97.2
Erythrocytes (10 ⁶ /uL)	PND 125 - 128	9.08 ± 0.15 (10) *	8.95 ± 0.12 (7)	8.99 ± 0.17 (9)	8.79 ± 0.12 (9)
Percent of Control			98.6	99.0	96.8
Reticulocytes (10 ³ /uL)	PND 125 - 128	217.6 ± 9.3 (10)	212.2 ± 13.2 (7)	197.9 ± 8.2 (9)	204.4 ± 6.9 (9)
Percent of Control			97.5	90.9	93.9
Mean Cell Volume (fL)	PND 125 - 128	56.1 ± 0.5 (10)	56.1 ± 0.7 (7)	56.4 ± 0.4 (9)	55.7 ± 0.5 (9)
Percent of Control			100.0	100.6	99.3
Mean Cell Hemoglobin (pg)	PND 125 - 128	17.2 ± 0.2 (10)	17.3 ± 0.3 (7)	17.5 ± 0.1 (9)	17.3 ± 0.1 (9)
Percent of Control			100.6	102.1	100.6
Mean Cell Hemoglobin Concentration (g/dL)	PND 125 - 128	30.7 ± 0.1 (10)	30.8 ± 0.2 (7)	31.1 ± 0.1 (9)	31.0 ± 0.2 (9)
Percent of Control			100.5	101.4	101.1
Platelets (10 ³ /uL)	PND 125 - 128	738 ± 45 (10)	739 ± 70 (7)	609 ± 63 (9)	719 ± 38 (9)
Percent of Control			100.1	82.5	97.4

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		Treatment Groups (mg/L)							
Phase Day		0		30		100		300	
White Blood Cells (10 ³ /uL)	PND 125 - 128	10.74 ±	0.67 (10)	13.19 ±	1.52 (7)	10.96 ±	0.73 (9)	12.54 ±	0.88 (9)
Percent of Control				122.9		102.1		116.8	
Neutrophils (10 ³ /uL)	PND 125 - 128	1.75 ±	0.19 (10)	2.15 ±	0.40 (7)	2.10 ±	0.33 (9)	1.79 ±	0.20 (9)
Percent of Control				122.5		120.0		102.5	
Lymphocytes (10 ³ /uL)	PND 125 - 128	8.18 ±	0.55 (10)	10.14 ±	1.28 (7)	8.17 ±	0.93 (9)	9.83 ±	0.69 (9)
Percent of Control				123.9		99.9		120.1	
Total Lymphocytes (10 ³ /uL)	PND 125 - 128	8.32 ±	0.55 (10)	10.31 ±	1.31 (7)	8.28 ±	0.94 (9)	10.00 ±	0.71 (9)
Percent of Control				124.0		99.5		120.3	
Monocytes (10 ³ /uL)	PND 125 - 128	0.45 ±	0.06 (10)	0.49 ±	0.10 (7)	0.36 ±	0.04 (9)	0.55 ±	0.04 (9)
Percent of Control				107.9		79.5		120.9	
Basophils (10 ³ /uL)	PND 125 - 128	0.04 ±	0.00 (10)	0.07 ±	0.01 (7)	0.04 ±	0.01 (9)	0.05 ±	0.01 (9)
Percent of Control				160.3		108.4		127.4	
Eosinophils (10 ³ /uL)	PND 125 - 128	0.17 ±	0.04 (10)	0.18 ±	0.05 (7)	0.18 ±	0.04 (9)	0.14 ±	0.02 (9)
Percent of Control				104.9		104.0		80.3	
Large Unstained Cells (10 ³ /uL)	PND 125 - 128	0.14 ±	0.01 (10)	0.18 ±	0.03 (7)	0.11 ±	0.02 (9)	0.18 ±	0.02 (9)
Percent of Control				131.2		78.2		130.9	

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F1 Male: F1 Interim Animals

		Treatment Groups	
	Phase Day	1000	
Hematocrit (%)	PND 125 - 128	49.3 ± 0.7	(10)
Percent of Control		96.9	
Manual Hematocrit (%)	PND 125 - 128	48.2 ± 0.7	(10)
Percent of Control		99.2	
Hemoglobin (g/dL)	PND 125 - 128	15.3 ± 0.2	(10)
Percent of Control		97.7	
Erythrocytes (10 ⁶ /uL)	PND 125 - 128	8.73 ± 0.09	(10)
Percent of Control		96.1	
Reticulocytes (10 ³ /uL)	PND 125 - 128	209.8 ± 8.8	(10)
Percent of Control		96.4	
Mean Cell Volume (fL)	PND 125 - 128	56.5 ± 0.6	(10)
Percent of Control		100.7	
Mean Cell Hemoglobin (pg)	PND 125 - 128	17.5 ± 0.2	(10)
Percent of Control		101.7	
Mean Cell Hemoglobin Concentration (g/dL)	PND 125 - 128	31.0 ± 0.1	(10)
Percent of Control		100.9	
Platelets (10 ³ /uL)	PND 125 - 128	790 ± 38	(10)
Percent of Control		106.9	

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F1 Male: F1 Interim Animals

	Phase Day	Treatment Groups
		1000
White Blood Cells (10 ³ /uL)	PND 125 - 128	11.11 ± 0.83 (10)
Percent of Control		103.5
Neutrophils (10 ³ /uL)	PND 125 - 128	1.61 ± 0.22 (10)
Percent of Control		92.2
Lymphocytes (10 ³ /uL)	PND 125 - 128	8.71 ± 0.64 (10)
Percent of Control		106.4
Total Lymphocytes (10 ³ /uL)	PND 125 - 128	8.85 ± 0.64 (10)
Percent of Control		106.4
Monocytes (10 ³ /uL)	PND 125 - 128	0.52 ± 0.06 (10)
Percent of Control		113.7
Basophils (10 ³ /uL)	PND 125 - 128	0.04 ± 0.00 (10)
Percent of Control		87.8
Eosinophils (10 ³ /uL)	PND 125 - 128	0.10 ± 0.02 (10)
Percent of Control		57.2
Large Unstained Cells (10 ³ /uL)	PND 125 - 128	0.15 ± 0.02 (10)
Percent of Control		107.4

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F1 Female: F1 Interim Animals

	Phase Day	Treatment Groups (mg/L)							
		0		30		100		300	
Hematocrit (%)	PND 125 - 128	44.9	± 0.8 (10)	44.5	± 1.2 (10)	45.0	± 0.7 (10)	44.6	± 0.9 (9)
Percent of Control				99.2		100.2		99.5	
Manual Hematocrit (%)	PND 125 - 128	43.9	± 1.0 (9)	43.4	± 1.4 (10)	43.6	± 0.8 (10)	43.3	± 0.9 (9)
Percent of Control				98.9		99.3		98.7	
Hemoglobin (g/dL)	PND 125 - 128	14.1	± 0.3 (10)	13.9	± 0.3 (10)	14.0	± 0.2 (10)	14.0	± 0.3 (9)
Percent of Control				98.4		99.3		99.3	
Erythrocytes (10 ⁶ /uL)	PND 125 - 128	7.99	± 0.14 (10)	7.80	± 0.17 (10)	7.85	± 0.13 (10)	7.89	± 0.14 (9)
Percent of Control				97.6		98.3		98.7	
Reticulocytes (10 ³ /uL)	PND 125 - 128	187.2	± 11.0 (10) *	193.3	± 12.9 (10)	212.7	± 17.1 (10)	192.5	± 10.5 (9)
Percent of Control				103.3		113.6		102.9	
Mean Cell Volume (fL)	PND 125 - 128	56.2	± 0.5 (10)	57.1	± 0.5 (10)	57.3	± 0.3 (10)	56.6	± 0.7 (9)
Percent of Control				101.5		102.0		100.7	
Mean Cell Hemoglobin (pg)	PND 125 - 128	17.7	± 0.2 (10)	17.8	± 0.1 (10)	17.9	± 0.2 (10)	17.8	± 0.2 (9)
Percent of Control				100.6		101.1		100.5	
Mean Cell Hemoglobin Concentration (g/dL)	PND 125 - 128	31.5	± 0.2 (10)	31.2	± 0.3 (10)	31.2	± 0.2 (10)	31.4	± 0.1 (9)
Percent of Control				99.1		99.1		99.8	
Platelets (10 ³ /uL)	PND 125 - 128	925	± 33 (10)	901	± 42 (10)	894	± 50 (10)	857	± 47 (9)
Percent of Control				97.4		96.7		92.6	

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	Phase Day	Treatment Groups (mg/L)			
		0	30	100	300
White Blood Cells (10 ³ /uL)	PND 125 - 128	7.47 ± 0.47 (10)	8.22 ± 0.96 (10)	8.42 ± 0.56 (10)	8.10 ± 0.81 (9)
Percent of Control			110.1	112.8	108.5
Neutrophils (10 ³ /uL)	PND 125 - 128	1.04 ± 0.11 (10)	1.26 ± 0.16 (10)	1.22 ± 0.13 (10)	1.45 ± 0.20 (9)
Percent of Control			121.2	116.8	139.5
Lymphocytes (10 ³ /uL)	PND 125 - 128	5.96 ± 0.41 (10)	6.44 ± 0.77 (10)	6.67 ± 0.41 (10)	6.14 ± 0.58 (9)
Percent of Control			108.1	112.0	103.1
Total Lymphocytes (10 ³ /uL)	PND 125 - 128	6.06 ± 0.41 (10)	6.53 ± 0.78 (10)	6.77 ± 0.42 (10)	6.24 ± 0.59 (9)
Percent of Control			107.9	111.7	103.0
Monocytes (10 ³ /uL)	PND 125 - 128	0.29 ± 0.03 (10)	0.34 ± 0.05 (10)	0.34 ± 0.06 (10)	0.32 ± 0.06 (9)
Percent of Control			118.6	120.7	113.1
Basophils (10 ³ /uL)	PND 125 - 128	0.02 ± 0.00 (10)	0.02 ± 0.01 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (9)
Percent of Control			115.8	110.5	111.1
Eosinophils (10 ³ /uL)	PND 125 - 128	0.07 ± 0.01 (10)	0.07 ± 0.01 (10)	0.08 ± 0.01 (10)	0.07 ± 0.01 (9)
Percent of Control			101.5	122.7	101.0
Large Unstained Cells (10 ³ /uL)	PND 125 - 128	0.10 ± 0.01 (10)	0.09 ± 0.01 (10)	0.09 ± 0.01 (10)	0.10 ± 0.01 (9)
Percent of Control			92.9	94.9	96.5

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	Phase Day	Treatment Groups		
		1000		
Hematocrit (%)	PND 125 - 128	44.7 ± 0.8	(10)	
Percent of Control		99.7		
Manual Hematocrit (%)	PND 125 - 128	42.9 ± 0.9	(10)	
Percent of Control		97.7		
Hemoglobin (g/dL)	PND 125 - 128	14.0 ± 0.2	(10)	
Percent of Control		98.9		
Erythrocytes (10 ⁶ /uL)	PND 125 - 128	7.73 ± 0.08	(10)	
Percent of Control		96.8		
Reticulocytes (10 ³ /uL)	PND 125 - 128	239.5 ± 12.3	(10) *	
Percent of Control		128.0		
Mean Cell Volume (fL)	PND 125 - 128	57.9 ± 0.6	(10)	
Percent of Control		103.0		
Mean Cell Hemoglobin (pg)	PND 125 - 128	18.1 ± 0.2	(10)	
Percent of Control		102.1		
Mean Cell Hemoglobin Concentration (g/dL)	PND 125 - 128	31.3 ± 0.2	(10)	
Percent of Control		99.2		
Platelets (10 ³ /uL)	PND 125 - 128	1006 ± 70	(10)	
Percent of Control		108.7		

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	Phase Day	Treatment Groups 1000
White Blood Cells (10 ³ /uL)	PND 125 - 128	7.77 ± 0.49 (10)
Percent of Control		104.0
Neutrophils (10 ³ /uL)	PND 125 - 128	1.47 ± 0.23 (10)
Percent of Control		141.2
Lymphocytes (10 ³ /uL)	PND 125 - 128	5.84 ± 0.44 (10)
Percent of Control		98.1
Total Lymphocytes (10 ³ /uL)	PND 125 - 128	5.93 ± 0.45 (10)
Percent of Control		97.9
Monocytes (10 ³ /uL)	PND 125 - 128	0.27 ± 0.04 (10)
Percent of Control		94.7
Basophils (10 ³ /uL)	PND 125 - 128	0.02 ± 0.00 (10)
Percent of Control		94.7
Eosinophils (10 ³ /uL)	PND 125 - 128	0.08 ± 0.01 (10)
Percent of Control		113.6
Large Unstained Cells (10 ³ /uL)	PND 125 - 128	0.09 ± 0.02 (10)
Percent of Control		88.9

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LEGEND

Values given as mean $\pm$ SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100

PND - Postnatal Day, adults post-weaning

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (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 $P \leq 0.01$

Hematology data not reported was removed as an outlier, or was due to pre-analytical or analytical conditions or errors including but not limited to: short sample, quantity not sufficient, or clotted sample.

**** END OF REPORT ****