

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA43: Hematology 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: 15:22:55

Lab: Battelle

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Male: Male Core

	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Hematocrit (%)	SD 29	48.8 ± 0.6 (10)	49.5 ± 0.5 (10)	49.2 ± 0.6 (10)	48.4 ± 0.8 (10)
Percent of Control			101.0	101.0	99.0
Manual Hematocrit (%)	SD 29	48.3 ± 0.7 (10)	48.8 ± 0.5 (10)	49.2 ± 0.7 (10)	48.2 ± 0.7 (10)
Percent of Control			101.0	102.0	100.0
Hemoglobin (g/dL)	SD 29	15.1 ± 0.2 (10)	15.3 ± 0.1 (10)	15.4 ± 0.2 (10)	15.1 ± 0.2 (10)
Percent of Control			101.0	102.0	100.0
Erythrocytes (10 ⁶ /uL)	SD 29	8.15 ± 0.12 (10) *	8.17 ± 0.07 (10)	8.25 ± 0.10 (10)	8.05 ± 0.12 (10)
Percent of Control			100.00	101.00	99.00
Reticulocytes (10 ³ /uL)	SD 29	192.1 ± 5.6 (10) **	181.2 ± 4.2 (10)	190.7 ± 6.1 (10)	188.7 ± 8.3 (10)
Percent of Control			94.0	99.0	98.0
Mean Cell Volume (fL)	SD 29	60.0 ± 0.6 (10) **	60.5 ± 0.6 (10)	59.7 ± 0.4 (10)	60.2 ± 0.5 (10)
Percent of Control			101.0	100.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	18.6 ± 0.2 (10) **	18.7 ± 0.1 (10)	18.7 ± 0.1 (10)	18.8 ± 0.1 (10)
Percent of Control			101.0	101.0	101.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.0 ± 0.1 (10)	30.9 ± 0.2 (10)	31.3 ± 0.1 (10)	31.2 ± 0.1 (10)
Percent of Control			100.0	101.0	101.0
Platelets (10 ³ /uL)	SD 29	748 ± 29 (10)	769 ± 34 (10)	755 ± 27 (10)	799 ± 23 (10)
Percent of Control			103	101	107
White Blood Cells (10 ³ /uL)	SD 29	12.32 ± 0.67 (10) *	13.64 ± 0.74 (10)	13.85 ± 0.69 (10)	13.87 ± 0.67 (10)
Percent of Control			111.00	112.00	113.00
Neutrophils (10 ³ /uL)	SD 29	1.34 ± 0.14 (10)	1.84 ± 0.20 (10)	1.77 ± 0.12 (10)	1.67 ± 0.14 (10)
Percent of Control			137.00	132.00	124.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Male: Male Core

	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL)	SD 29	10.38 ± 0.64 (10) **	11.17 ± 0.57 (10)	11.40 ± 0.62 (10)	11.46 ± 0.67 (10)
Percent of Control			108.00	110.00	110.00
Total Lymphocytes (10 ³ /uL)	SD 29	10.51 ± 0.66 (10) **	11.29 ± 0.58 (10)	11.54 ± 0.62 (10)	11.60 ± 0.68 (10)
Percent of Control			107.00	110.00	110.00
Monocytes (10 ³ /uL)	SD 29	0.36 ± 0.06 (10)	0.47 ± 0.05 (10)	0.43 ± 0.04 (10)	0.48 ± 0.06 (10)
Percent of Control			131.00	119.00	133.00
Basophils (10 ³ /uL)	SD 29	0.03 ± 0.01 (10)	0.03 ± 0.01 (10)	0.04 ± 0.01 (10)	0.04 ± 0.01 (10)
Percent of Control			94.00	123.00	123.00
Eosinophils (10 ³ /uL)	SD 29	0.08 ± 0.01 (10)	0.05 ± 0.01 (10)	0.08 ± 0.01 (10)	0.10 ± 0.02 (10)
Percent of Control			56.00	98.00	124.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.13 ± 0.03 (10)	0.11 ± 0.01 (10)	0.14 ± 0.01 (10)	0.14 ± 0.02 (10)
Percent of Control			84.00	102.00	104.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Male: Male Core

	Phase Day	Treatment Groups (mg/kg)		
		100	300	800
Hematocrit (%)	SD 29	48.4 ± 0.6 (10)	51.1 ± 0.7 (10)	49.4 ± 0.6 (10)
Percent of Control		99.0	105.0	101.0
Manual Hematocrit (%)	SD 29	48.7 ± 0.6 (10)	49.4 ± 0.7 (10)	49.3 ± 0.6 (10)
Percent of Control		101.0	102.0	102.0
Hemoglobin (g/dL)	SD 29	15.2 ± 0.2 (10)	15.8 ± 0.2 (10)	15.2 ± 0.2 (10)
Percent of Control		101.0	105.0	101.0
Erythrocytes (10 ⁶ /uL)	SD 29	8.01 ± 0.11 (10)	8.23 ± 0.11 (10)	7.80 ± 0.08 (10)
Percent of Control		98.00	101.00	96.00
Reticulocytes (10 ³ /uL)	SD 29	194.9 ± 7.1 (10)	217.9 ± 11.9 (10)	259.3 ± 12.6 (10) **
Percent of Control		101.0	113.0	135.0
Mean Cell Volume (fL)	SD 29	60.5 ± 0.5 (10)	62.1 ± 0.3 (10) **	63.3 ± 0.4 (10) **
Percent of Control		101.0	104.0	106.0
Mean Cell Hemoglobin (pg)	SD 29	19.0 ± 0.2 (10)	19.2 ± 0.1 (10) **	19.5 ± 0.1 (10) **
Percent of Control		102.0	104.0	105.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.4 ± 0.1 (10)	31.0 ± 0.1 (10)	30.8 ± 0.1 (10)
Percent of Control		101.0	100.0	100.0
Platelets (10 ³ /uL)	SD 29	731 ± 58 (10)	755 ± 45 (10)	719 ± 42 (10)
Percent of Control		98	101	96
White Blood Cells (10 ³ /uL)	SD 29	13.12 ± 0.71 (10)	12.29 ± 0.79 (10)	10.98 ± 0.44 (10)
Percent of Control		106.00	100.00	89.00
Neutrophils (10 ³ /uL)	SD 29	1.94 ± 0.15 (10)	1.74 ± 0.18 (10)	1.63 ± 0.15 (10)
Percent of Control		145.00	130.00	121.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Male: Male Core

	Phase Day	Treatment Groups (mg/kg)		
		100	300	800
Lymphocytes (10 ³ /uL)	SD 29	10.47 ± 0.58 (10)	9.92 ± 0.68 (10)	8.78 ± 0.37 (10)
Percent of Control		101.00	96.00	85.00
Total Lymphocytes (10 ³ /uL)	SD 29	10.59 ± 0.59 (10)	10.03 ± 0.69 (10)	8.87 ± 0.37 (10) *
Percent of Control		101.00	95.00	84.00
Monocytes (10 ³ /uL)	SD 29	0.45 ± 0.04 (10)	0.41 ± 0.04 (10)	0.43 ± 0.05 (10)
Percent of Control		126.00	112.00	118.00
Basophils (10 ³ /uL)	SD 29	0.04 ± 0.00 (10)	0.04 ± 0.01 (10)	0.02 ± 0.00 (10)
Percent of Control		116.00	129.00	65.00
Eosinophils (10 ³ /uL)	SD 29	0.09 ± 0.01 (10)	0.08 ± 0.02 (10)	0.06 ± 0.02 (10)
Percent of Control		106.00	90.00	70.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.13 ± 0.01 (10)	0.11 ± 0.01 (10)	0.10 ± 0.00 (10)
Percent of Control		94.00	84.00	71.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Female: Female Core

	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Hematocrit (%)	SD 29	47.0 ± 0.6 (10)	46.6 ± 0.7 (10)	46.4 ± 0.5 (10)	47.3 ± 0.6 (10)
Percent of Control			99.0	99.0	101.0
Manual Hematocrit (%)	SD 29	47.2 ± 0.6 (10)	46.7 ± 0.6 (10)	46.8 ± 0.6 (10)	46.9 ± 0.5 (10)
Percent of Control			99.0	99.0	99.0
Hemoglobin (g/dL)	SD 29	14.8 ± 0.2 (10)	14.7 ± 0.2 (10)	14.7 ± 0.2 (10)	14.9 ± 0.1 (10)
Percent of Control			99.0	99.0	101.0
Erythrocytes (10 ⁶ /uL)	SD 29	7.84 ± 0.08 (10) *	7.75 ± 0.07 (10)	7.82 ± 0.11 (10)	7.88 ± 0.09 (10)
Percent of Control			99.00	100.00	101.00
Reticulocytes (10 ³ /uL)	SD 29	199.8 ± 15.7 (10)	183.2 ± 10.0 (10)	171.0 ± 12.5 (10)	176.5 ± 10.4 (10)
Percent of Control			92.0	86.0	88.0
Mean Cell Volume (fL)	SD 29	60.0 ± 0.5 (10) **	60.1 ± 0.5 (10)	59.3 ± 0.3 (10)	60.1 ± 0.3 (10)
Percent of Control			100.0	99.0	100.0
Mean Cell Hemoglobin (pg)	SD 29	18.9 ± 0.2 (10) *	18.9 ± 0.1 (10)	18.8 ± 0.1 (10)	18.9 ± 0.1 (10)
Percent of Control			100.0	99.0	100.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.5 ± 0.1 (10)	31.5 ± 0.2 (10)	31.7 ± 0.1 (10)	31.5 ± 0.1 (10)
Percent of Control			100.0	101.0	100.0
Platelets (10 ³ /uL)	SD 29	815 ± 39 (10)	851 ± 16 (10)	868 ± 35 (10)	753 ± 60 (10)
Percent of Control			104	107	92
White Blood Cells (10 ³ /uL)	SD 29	12.05 ± 0.93 (10) *	10.96 ± 0.66 (10)	10.69 ± 0.61 (10)	10.74 ± 0.45 (10)
Percent of Control			91.00	89.00	89.00
Neutrophils (10 ³ /uL)	SD 29	1.37 ± 0.10 (10)	1.49 ± 0.24 (10)	1.12 ± 0.10 (10)	0.97 ± 0.08 (10) *
Percent of Control			109.00	82.00	70.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Female: Female Core

	Phase Day	Treatment Groups (mg/kg)			
		0	1	10	30
Lymphocytes (10 ³ /uL)	SD 29	10.06 ± 0.81 (10) *	8.89 ± 0.58 (10)	8.99 ± 0.60 (10)	9.23 ± 0.41 (10)
Percent of Control			88.00	89.00	92.00
Total Lymphocytes (10 ³ /uL)	SD 29	10.15 ± 0.83 (10) *	8.99 ± 0.59 (10)	9.08 ± 0.60 (10)	9.32 ± 0.41 (10)
Percent of Control			89.00	89.00	92.00
Monocytes (10 ³ /uL)	SD 29	0.40 ± 0.07 (10)	0.40 ± 0.06 (10)	0.35 ± 0.02 (10)	0.34 ± 0.03 (10)
Percent of Control			99.00	86.00	86.00
Basophils (10 ³ /uL)	SD 29	0.04 ± 0.01 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)	0.03 ± 0.00 (10)
Percent of Control			61.00	64.00	78.00
Eosinophils (10 ³ /uL)	SD 29	0.10 ± 0.01 (10)	0.08 ± 0.01 (10)	0.13 ± 0.02 (10)	0.10 ± 0.02 (10)
Percent of Control			76.00	125.00	98.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.09 ± 0.01 (10)	0.10 ± 0.01 (10)	0.08 ± 0.01 (10)	0.08 ± 0.00 (10)
Percent of Control			115.00	91.00	94.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Female: Female Core

	Phase Day	Treatment Groups (mg/kg)		
		100	300	800
Hematocrit (%)	SD 29	46.0 ± 0.8 (10)	46.9 ± 0.8 (10)	46.2 ± 0.5 (10)
Percent of Control		98.0	100.0	98.0
Manual Hematocrit (%)	SD 29	46.1 ± 0.5 (10)	47.6 ± 0.6 (10)	46.3 ± 0.5 (10)
Percent of Control		98.0	101.0	98.0
Hemoglobin (g/dL)	SD 29	14.6 ± 0.2 (10)	14.9 ± 0.3 (10)	14.4 ± 0.2 (10)
Percent of Control		99.0	100.0	97.0
Erythrocytes (10 ⁶ /uL)	SD 29	7.74 ± 0.12 (10)	7.73 ± 0.12 (10)	7.49 ± 0.10 (10)
Percent of Control		99.00	99.00	96.00
Reticulocytes (10 ³ /uL)	SD 29	178.8 ± 10.8 (10)	200.5 ± 17.2 (10)	230.1 ± 14.7 (10)
Percent of Control		90.0	100.0	115.0
Mean Cell Volume (fL)	SD 29	59.4 ± 0.5 (10)	60.7 ± 0.6 (10)	61.8 ± 0.4 (10) *
Percent of Control		99.0	101.0	103.0
Mean Cell Hemoglobin (pg)	SD 29	18.9 ± 0.2 (10)	19.3 ± 0.2 (10)	19.3 ± 0.2 (10)
Percent of Control		100.0	102.0	102.0
Mean Cell Hemoglobin Concentration (g/dL)	SD 29	31.9 ± 0.3 (10)	31.7 ± 0.2 (10)	31.2 ± 0.1 (10)
Percent of Control		101.0	100.0	99.0
Platelets (10 ³ /uL)	SD 29	848 ± 40 (10)	773 ± 32 (10)	795 ± 29 (10)
Percent of Control		104	95	98
White Blood Cells (10 ³ /uL)	SD 29	11.15 ± 0.97 (10)	10.15 ± 0.69 (10)	9.37 ± 0.52 (10)
Percent of Control		92.00	84.00	78.00
Neutrophils (10 ³ /uL)	SD 29	1.22 ± 0.11 (10)	1.02 ± 0.10 (10)	1.13 ± 0.08 (10)
Percent of Control		89.00	74.00	82.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

Female: Female Core

	Phase Day	Treatment Groups (mg/kg)		
		100	300	800
Lymphocytes (10 ³ /uL)	SD 29	9.40 ± 0.87 (10)	8.66 ± 0.60 (10)	7.74 ± 0.44 (10)
Percent of Control		93.00	86.00	77.00
Total Lymphocytes (10 ³ /uL)	SD 29	9.49 ± 0.88 (10)	8.74 ± 0.61 (10)	7.81 ± 0.45 (10)
Percent of Control		94.00	86.00	77.00
Monocytes (10 ³ /uL)	SD 29	0.31 ± 0.04 (10)	0.26 ± 0.04 (10)	0.34 ± 0.04 (10)
Percent of Control		78.00	66.00	84.00
Basophils (10 ³ /uL)	SD 29	0.02 ± 0.01 (10)	0.02 ± 0.00 (10)	0.02 ± 0.00 (10)
Percent of Control		64.00	61.00	56.00
Eosinophils (10 ³ /uL)	SD 29	0.11 ± 0.02 (10)	0.12 ± 0.04 (10)	0.07 ± 0.02 (10)
Percent of Control		105.00	115.00	74.00
Large Unstained Cells (10 ³ /uL)	SD 29	0.09 ± 0.01 (10)	0.08 ± 0.01 (10)	0.07 ± 0.01 (10)
Percent of Control		98.00	89.00	82.00

Study Number: C11054-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

PA43: Hematology Summary

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 11/13/2018

Time Report Requested: 15:22:55

Lab: Battelle

LEGEND

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

SD – Study Day

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

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 ****