

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

PA46: Summary of Gross Pathology (Chronic Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 01/28/2022
Time Report Requested: 10:20:48
Lab: Battelle

Study Number: C11054B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.3.6

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F1 Male: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Censored					
Early Deaths					
Found Dead	11	11	13	11	22
Sacrificed, Moribund	25	23	22	22	20
Survivors					
Scheduled Sacrifice, Terminal	14	16	15	17	8
Number of Animals Examined	50	50	50	50	50

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F1 Male: F1 Core Animals

	Treatment Groups (mg/L)				
	0	30	100	300	1000
ALIMENTARY SYSTEM					
ESOPHAGUS	(50)	(50)	(50)	(50)	(50)
INTESTINE, LARGE, CECUM	(50)	(50)	(50)	(50)	(50)
CRUST; WHITE					1
MUCOSA; DISCOLORATION; WHITE					1
DISCOLORATION; DARK					1
DISCOLORATION; PALE					1
DISCOLORATION; RED			1		
THICK; PALE	1		1		
THICK; WHITE			1		
THICK		1		1	
INTESTINE, LARGE, COLON	(50)	(50)	(50)	(50)	(49)
DISCOLORATION; WHITE			1		
INTESTINE, LARGE, RECTUM	(50)	(50)	(50)	(50)	(50)
INTESTINE, SMALL, DUODENUM	(50)	(50)	(50)	(50)	(50)
DILATION					1
NODULE; TAN	1				
INTESTINE, SMALL, ILEUM	(50)	(49)	(50)	(50)	(49)
INTESTINE, SMALL, JEJUNUM	(50)	(50)	(50)	(50)	(49)
DILATION					1
MUCOSA; DISCOLORATION; RED			1		
PEYERS PATCH; ENLARGED; TAN				1	
MASS; MOTTLED				1	1
MASS; TAN		1			1
LIVER	(50)	(50)	(50)	(50)	(50)
CAUDATE LOBE; CYST; CLEAR			1		
LOBE, LEFT; CYST; CLEAR	2	2			1
LOBE, LEFT; CYST; CLEAR, THREE	1				

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
LOBE, MEDIAN; CYST; CLEAR	2	1		1	
RIGHT; CYST; CLEAR	3				
LOBE, MEDIAN; DEFORMITY; TAN	1				
DISCOLORATION; DIFFUSE, PALE					1
BILE DUCT; ENLARGED					1
LOBE, LEFT; FOCUS; TAN			1		2
LOBE, MEDIAN; FOCUS; WHITE	1				
RIGHT; FOCUS; DARK, ONE	1				
RIGHT; FOCUS; TAN		1			
FOCUS; TAN					1
FOCUS; WHITE				1	
CAUDATE LOBE; MASS; MOTTLED			1		
LOBE, MEDIAN; MASS; MOTTLED		1			
LOBE, MEDIAN; MASS; WHITE		1			
RIGHT; MASS; TAN					1
CAUDATE LOBE; NODULE; TAN		1			
LOBE, LEFT; NODULE; TAN	1				
LOBE, MEDIAN; NODULE; TAN					1
RIGHT; NODULE; TAN					1
MESENTERY	(0)	(0)	(0)	(0)	(1)
NODULE; BROWN					1
PANCREAS	(50)	(50)	(50)	(50)	(49)
MASS; BROWN					1
MASS; DARK		1			
MASS; TAN	1			2	
NODULE; DARK	2	1		2	
NODULE; ONE, TAN				1	
NODULE; PINK				1	

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
NODULE; TAN, THREE			1		
NODULE; TAN, TWO				1	
PHARYNX	(50)	(50)	(50)	(50)	(50)
SALIVARY GLANDS	(50)	(50)	(50)	(50)	(50)
LEFT; MASS; WHITE			1		
STOMACH, FORESTOMACH	(50)	(50)	(50)	(50)	(50)
NODULE; DARK					1
NODULE; TAN					1
NODULE; TAN, TWO					1
NODULE	1				1
ULCER; DARK					1
STOMACH, GLANDULAR	(50)	(50)	(50)	(50)	(50)
DISCOLORATION; DARK			1		
THICK; PALE					1
TONGUE	(50)	(50)	(50)	(50)	(50)
MUCOSA; FOCUS; DARK		1			
DORSAL; MASS; WHITE					1
TOOTH	(1)	(0)	(0)	(0)	(0)
DEFORMITY	1				

F1 Male: F1 Core Animals					
Treatment Groups (mg/L)					
	0	30	100	300	1000
CARDIOVASCULAR SYSTEM					
AORTA	(50)	(50)	(50)	(50)	(50)
DILATION; WHITE			1		
DILATION	3		1		1
ENLARGED	1				
MASS; TAN				1	
THICK; FIRM			1		
BLOOD VESSEL	(0)	(1)	(0)	(0)	(0)
MESENTERIC ARTERY; DILATION; DARK		1			
HEART	(50)	(50)	(50)	(50)	(50)
RIGHT; ATRIUM; NODULE; TAN		1			

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F1 Male: F1 Core Animals					
Treatment Groups (mg/L)					
	0	30	100	300	1000
ENDOCRINE SYSTEM					
ADRENAL GLAND	(50)	(50)	(50)	(50)	(50)
BILATERAL; DISCOLORATION; DARK					1
BILATERAL; ENLARGED; TAN			1		
LEFT; ENLARGED; MOTTLED	1		1	1	
LEFT; ENLARGED; RED				1	
LEFT; ENLARGED	2			1	
RIGHT; ENLARGED; MOTTLED	1	1	1		
RIGHT; ENLARGED; RED		1			
RIGHT; ENLARGED; TAN					1
RIGHT; ENLARGED		1			
ENLARGED; MOTTLED				1	
ENLARGED	2	1			
RIGHT; MASS; MOTTLED					1
RIGHT; SMALL		1			
PARATHYROID GLAND	(50)	(50)	(50)	(50)	(50)
PITUITARY GLAND	(50)	(50)	(50)	(50)	(50)
ENLARGED; DARK		1	1	1	1
ENLARGED; MOTTLED	3	1	2	1	
ENLARGED; RED		2	2	3	
ENLARGED; TAN				1	2
ENLARGED; WHITE				1	
FOCUS; DARK			1		
NODULE; RED				2	
NODULE; TAN		1			
THYROID GLAND	(50)	(50)	(50)	(50)	(50)
BILATERAL; ENLARGED; TAN			1		
BILATERAL; ENLARGED		2	1		1

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
LEFT; ENLARGED; DARK	1			1	
LEFT; ENLARGED		1	1	1	
ENLARGED; PALE	1				
GENERAL BODY SYSTEM					
ABDOMEN	(1)	(1)	(1)	(1)	(0)
ACCUMULUATION; RED			1		
FLUID; CLEAR	1			1	
FLUID; RED		1			
CARCASS	(50)	(50)	(50)	(50)	(50)

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
GENITAL SYSTEM					
COAGULATING GLAND, LEFT	(0)	(0)	(0)	(1)	(0)
ENLARGED; MOTTLED				1	
EPIDIDYMIS, LEFT	(50)	(50)	(50)	(50)	(50)
SMALL	3		1	3	1
EPIDIDYMIS, RIGHT	(50)	(50)	(50)	(50)	(50)
SMALL	4		1	4	1
PENIS	(0)	(0)	(2)	(0)	(0)
PROLAPSE			1		
SMALL			1		
PREPUTIAL GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; ENLARGED; GREEN	1				
RIGHT; ENLARGED; GREEN	1				
RIGHT; MASS; TAN		1			
LEFT; NODULE; TAN					1
BILATERAL; SMALL			1		
PROSTATE	(50)	(50)	(50)	(50)	(50)
VENTRAL; DISCOLORATION; DARK			1		
DISCOLORATION; BROWN				1	
DISCOLORATION; GREEN					1
DISCOLORATION; MOTTLED			1		
DISCOLORATION; RED	1				
ENLARGED; MOTTLED				1	
ENLARGED; TAN			1		
LEFT; SMALL		1			
SEMINAL VESICLE	(50)	(50)	(50)	(50)	(50)
BILATERAL; DISCOLORATION; RED	1				
LEFT; ENLARGED; MOTTLED				1	

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
BILATERAL; SMALL; DARK		1			
BILATERAL; SMALL	1	3	2	8	5
RIGHT; SMALL; PALE				1	
SMALL	3				
TESTES	(0)	(0)	(0)	(0)	(1)
DEFORMITY; MOTTLED					1
TESTIS, LEFT	(50)	(50)	(50)	(50)	(50)
DISCOLORATION; MOTTLED				1	
SMALL; DARK		1	1	2	
SMALL; PALE			1		
SMALL; TAN				2	
SMALL	7	4	9	8	5
TESTIS, RIGHT	(50)	(50)	(50)	(50)	(50)
SMALL; DARK		1	1	2	
SMALL; PALE			1		
SMALL; TAN		1		2	
SMALL	8	3	10	8	6

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Treatment Groups (mg/L)					
	0	30	100	300	1000
HEMATOLYMPHOID SYSTEM					
LYMPH NODE	(1)	(0)	(0)	(0)	(3)
LUMBAR; CYST; CLEAR					1
BILATERAL; LUMBAR; ENLARGED; RED					1
INGUINAL; ENLARGED; TAN	1				
LEFT; RENAL; ENLARGED; TAN, TWO					1
LYMPH NODE, MANDIBULAR	(50)	(50)	(50)	(50)	(50)
CYST; CLEAR			1		
DISCOLORATION; RED	1				
LEFT; ENLARGED; TAN					1
ENLARGED; DARK					1
ENLARGED; TAN	1	1	1		1
ENLARGED			1	1	
LEFT; MASS; PALE		1			
RIGHT; MASS; PALE		1			
LYMPH NODE, MEDIASTINAL	(1)	(0)	(2)	(0)	(0)
ENLARGED; DARK	1				
ENLARGED; RED			1		
ENLARGED; RED, TWO			1		
LYMPH NODE, MESENTERIC	(50)	(50)	(50)	(50)	(50)
ENLARGED; DARK	1	1			
ENLARGED; MOTTLED			1	1	
ENLARGED; RED	1				
ENLARGED; TAN	1				
MASS; DARK		1			
SPLEEN	(50)	(50)	(50)	(50)	(49)
ENLARGED; DARK			1		
ENLARGED; RED	1	1			

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
ENLARGED		1			
THYMUS	(50)	(50)	(50)	(50)	(50)
SMALL		1		1	

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F1 Male: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
INTEGUMENTARY SYSTEM					
MAMMARY GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; ABDOMINAL; MASS; TAN				1	
LEFT; THORACIC; MASS; MOTTLED		1		1	
RIGHT; THORACIC; NODULE; MOTTLED					1
SKIN	(50)	(50)	(50)	(50)	(50)
LEFT; HINDLIMB; ACCUMULUATION					1
DORSAL; CERVICAL; CRUST; DARK			1		
LEFT; DORSAL; CRUST; BROWN		1			
LEFT; HINDLIMB; CRUST; RED				1	
LEFT; PAW; CRUST; GREEN					1
LEFT; PAW; CRUST; TAN			2		
LEFT; THORACIC; CRUST; TAN		1			
LEFT; CRUST; TAN	2				
RIGHT; ABDOMINAL; CRUST; TAN			1		
RIGHT; AXILLARY; CRUST; TAN					1
RIGHT; FORELIMB; CRUST; DARK	1				
RIGHT; HINDLIMB; CRUST; BROWN	1				
RIGHT; INGUINAL; CRUST				1	
RIGHT; PAW; CRUST; TAN			1	1	1
SCROTUM; CRUST; DARK	1				
LEFT; HINDLIMB; ENLARGED					1
VENTRAL; CERVICAL; FLUID; CLEAR			1		
ABDOMINAL; MASS; PALE					1
ABDOMINAL; MASS; TAN				1	
DORSAL; MASS; MOTTLED			1		
DORSAL; MASS; TAN	1			1	3
DORSAL; MASS; YELLOW				1	

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
INGUINAL; MASS; MOTTLED				1	
INGUINAL; MASS; TAN	1				
LEFT; ABDOMINAL; MASS; TAN				1	
LEFT; AXILLARY; MASS; MOTTLED			1		
LEFT; AXILLARY; MASS; TAN		2	1		
LEFT; DORSAL; MASS; MOTTLED	1				
LEFT; DORSAL; MASS; TAN			1		
LEFT; FACE; MASS; MOTTLED					1
LEFT; FORELIMB; MASS; TAN			1		
LEFT; THORACIC; MASS; MOTTLED			1		
LEFT; THORACIC; MASS; TAN	2				
LEFT; MASS; TAN	1				
LUMBAR; MASS			1		
RIGHT; ABDOMINAL; MASS; TAN				1	1
RIGHT; ABDOMINAL; MASS; WHITE			1		
RIGHT; AXILLARY; MASS; TAN		1			
RIGHT; CERVICAL; MASS; TAN		1		1	
RIGHT; DORSAL; MASS; MOTTLED				1	
RIGHT; DORSAL; MASS; TAN				1	
RIGHT; FORELIMB; MASS; TAN		1			1
RIGHT; HINDLIMB; MASS; TAN		1			
RIGHT; INGUINAL; MASS; TAN	2		1		
RIGHT; THORACIC; MASS; MOTTLED				1	1
RIGHT; THORACIC; MASS; TAN			1	1	
RIGHT; THORACIC; MASS; WHITE	1				
RIGHT; MASS; MOTTLED	1				
RIGHT; MASS; TAN					2
VENTRAL; ABDOMINAL; MASS; GREEN			1		

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	0	30	100	300	1000
VENTRAL; THORACIC; MASS; MOTTLED		1			
VENTRAL; MASS; BROWN				1	
MASS; GREEN	1				
MASS; TAN					1
DORSAL; NODULE; TAN		1	1		
LEFT; FACE; NODULE; DARK			1		
LEFT; PAW; NODULE; TAN		1			
LEFT; PAW; NODULE; WHITE		1			
RIGHT; LIP; NODULE; PINK		1			
RIGHT; PAW; NODULE; TAN		1			
LEFT; PAW; THICK; PALE	1				
RIGHT; PAW; THICK; PALE	1				
MUSCULOSKELETAL SYSTEM					
BONE	(1)	(0)	(0)	(0)	(0)
LEFT; MANDIBLE; MASS; TAN	1				
BONE, FEMUR	(50)	(50)	(50)	(50)	(50)
MUSCLE, THIGH	(50)	(50)	(50)	(50)	(50)
SKELETAL MUSCLE	(2)	(0)	(0)	(0)	(1)
DIAPHRAGM; MASS; DARK					1
LEFT; HINDLIMB; MASS; RED	1				
RIGHT; FACE; MASS; WHITE	1				

F1 Male: F1 Core Animals					
Treatment Groups (mg/L)					
	0	30	100	300	1000
NERVOUS SYSTEM					
BRAIN	(50)	(50)	(50)	(50)	(50)
DISCOLORATION; DARK, DIFFUSE			1		
DISCOLORATION; RED	1				
RIGHT; CEREBRUM; MASS		1			
LEFT; CEREBRUM; NODULE; WHITE		1			
NERVE, SCIATIC	(50)	(50)	(50)	(50)	(50)
NERVE, TIBIAL	(50)	(50)	(50)	(50)	(50)
SPINAL CORD	(50)	(50)	(50)	(50)	(50)
TRIGEMINAL GANGLION	(50)	(50)	(50)	(50)	(50)

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	Treatment Groups (mg/L)				
	0	30	100	300	1000
RESPIRATORY SYSTEM					
LARYNX	(50)	(50)	(50)	(50)	(50)
LUNG	(50)	(50)	(50)	(50)	(50)
DISCOLORATION; DIFFUSE, RED					1
DISCOLORATION; MOTTLED			1	2	
ACCESSORY LOBE; FOCUS; TWO, WHITE			1		
CRANIAL; FOCUS; WHITE			1		
LEFT; RIGHT; FOCUS; CAUDAL, WHITE		1			
LEFT; FOCUS; DARK			1		
LEFT; FOCUS; TWO, WHITE			1		
LEFT; FOCUS; WHITE		2	1	1	
LOBE, LEFT; LOBE, MIDDLE, RIGHT; FOCUS; WHITE		1			
LOBE, LEFT; FOCUS; THREE, WHITE					1
LOBE, LEFT; FOCUS; WHITE				1	
RIGHT; FOCUS; CAUDAL, RED		1			
RIGHT; FOCUS; CAUDAL, WHITE		2		1	
RIGHT; FOCUS; DARK			1		
RIGHT; FOCUS; TAN					1
RIGHT; FOCUS; WHITE				1	
RIGHT LOBE; FOCUS; THREE, WHITE					1
FOCUS; CAUDAL, WHITE			1		
FOCUS; DARK	1				2
FOCUS; RED			1		1
FOCUS; WHITE	5	3	1		5
NOSE	(50)	(50)	(50)	(50)	(50)
THORAX	(1)	(0)	(3)	(4)	(2)
ACCUMULUATION; CLEAR	1		2	2	
ACCUMULUATION; PINK			1		1

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	0	30	100	300	1000
FLUID; CLEAR				1	1
FLUID; RED				1	
TRACHEA	(50)	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM					
EYE	(50)	(49)	(50)	(50)	(50)
BILATERAL; CORNEA; DISCOLORATION; DIFFUSE, PALE		1			
BILATERAL; DISCOLORATION; OPAQUE	1				
LEFT; DISCOLORATION; OPAQUE		2	1		
LEFT; DISCOLORATION; RED			1		
RIGHT; DISCOLORATION; OPAQUE	1			1	
RIGHT; PROLAPSE; RED	1				
HARDERIAN GLAND	(50)	(50)	(50)	(50)	(50)
RIGHT; ENLARGED; TAN	1				
ZYMBALS GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; ENLARGED; MOTTLED	1				
RIGHT; ENLARGED; DARK		1			
LEFT; MASS; MOTTLED	1		1		
LEFT; MASS; TAN	1				

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Treatment Groups (mg/L)					
	0	30	100	300	1000
URINARY SYSTEM					
KIDNEY, LEFT	(50)	(50)	(50)	(50)	(50)
CYST; CLEAR	4	2	2	3	3
CYST; CLEAR, FOUR			1		
CYST; CLEAR, TWO	1				
CYST; PINK	1				
CYST	1		1		
DEFORMITY; DARK	1	1		3	2
DEFORMITY; DIFFUSE					2
DEFORMITY; DIFFUSE, PALE		1			
DEFORMITY; MOTTLED		1	1		2
DEFORMITY; PALE	21	14	26	21	20
DEFORMITY; TAN	1		3		1
DEFORMITY	5	7	6	7	8
DISCOLORATION; DARK					1
ENLARGED		3		2	
MASS; TAN			1		1
KIDNEY, RIGHT	(50)	(50)	(50)	(50)	(50)
CYST; CLEAR	3		2	5	2
CYST; CLEAR, TWO					1
CYST; DARK		2			
CYST; PINK	1				
CYST	2				
DEFORMITY; DARK	1	1		3	2
DEFORMITY; DIFFUSE					2
DEFORMITY; DIFFUSE, PALE		1			
DEFORMITY; MOTTLED		1	1		2
DEFORMITY; PALE	21	14	26	21	20

F1 Male: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
DEFORMITY; TAN	1		3		1
DEFORMITY	5	7	6	7	8
DILATION	1				
DISCOLORATION; DARK					1
ENLARGED		3		2	
SMALL; TAN	1				
URINARY BLADDER	(50)	(50)	(50)	(50)	(50)
LUMEN; ACCUMULUATION; YELLOW			1		
DILATION; RED					1
THICK				1	
LUMEN; UROLITH; WHITE	1	1			

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

PA46: Summary of Gross Pathology (Chronic Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 01/28/2022
Time Report Requested: 10:20:48
Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
Disposition Summary					
Animals Initially In Study	50	50	50	50	50
Censored					
Early Deaths					
Found Dead	10	6	5	8	9
Sacrificed, Moribund	19	18	19	16	23
Survivors					
Scheduled Sacrifice, Terminal	21	26	26	26	18
Number of Animals Examined	50	50	50	50	50

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals

	Treatment Groups (mg/L)				
	0	30	100	300	1000
ALIMENTARY SYSTEM					
ESOPHAGUS	(50)	(50)	(50)	(50)	(50)
INTESTINE, LARGE, CECUM	(49)	(50)	(50)	(50)	(50)
MASS; TAN	1				
INTESTINE, LARGE, COLON	(50)	(50)	(50)	(50)	(50)
INTESTINE, LARGE, RECTUM	(50)	(50)	(50)	(50)	(50)
INTESTINE, SMALL, DUODENUM	(50)	(50)	(50)	(50)	(50)
INTESTINE, SMALL, ILEUM	(49)	(50)	(50)	(50)	(50)
INTESTINE, SMALL, JEJUNUM	(50)	(50)	(50)	(50)	(50)
ENLARGED; TAN					1
MASS; TAN			1		1
LIVER	(49)	(50)	(50)	(50)	(50)
CAUDATE LOBE; CYST; CLEAR	1	1			1
CAUDATE LOBE; CYST; YELLOW		1			
LOBE, LEFT; CYST; CLEAR	4	4	1	2	2
LOBE, LEFT; CYST; CLEAR, FOUR	1				
LOBE, LEFT; CYST; CLEAR, THREE	1				
LOBE, LEFT; CYST; CLEAR, TWO			1		
LOBE, MEDIAN; CYST; CLEAR	1				1
LOBE, MEDIAN; CYST; CLEAR, FOUR				1	
LOBE, MEDIAN; CYST; CLEAR, TWO	1				
RIGHT; CYST; CLEAR	1	1		1	1
RIGHT; CYST; RED					1
CYST; CLEAR			1		
LOBE, MEDIAN; DEFORMITY; TAN			1		1
LOBE, MEDIAN; DEFORMITY		1		1	1
DEFORMITY; MOTTLED	1		1		
DEFORMITY; TAN		1			

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
RIGHT; DISCOLORATION; RED	1				
DISCOLORATION; MOTTLED		1			
CAUDATE LOBE; FOCUS; TAN					1
LOBE, LEFT; FOCUS; DARK, THREE		1			
LOBE, LEFT; FOCUS; MOTTLED		1			
LOBE, LEFT; FOCUS; RED					1
LOBE, LEFT; FOCUS; WHITE		1			1
LOBE, MEDIAN; FOCUS; DARK					1
LOBE, MEDIAN; FOCUS; TAN				2	
LOBE, MEDIAN; FOCUS; TWO, WHITE					1
LOBE, MEDIAN; FOCUS; WHITE			1		
RIGHT; FOCUS; DARK, TWO		1			
CAUDATE LOBE; MASS; TAN				1	
LOBE, LEFT; MASS; RED	1				
LOBE, LEFT; MASS; TAN				1	
LOBE, MEDIAN; MASS				1	
RIGHT; MASS; MOTTLED			1		
RIGHT; MASS; TAN			1	1	
LOBE, LEFT; NODULE; RED				1	
LOBE, LEFT; NODULE; TAN					1
LOBE, MEDIAN; NODULE; RED			1		
RIGHT; NODULE; TAN		1			1
MESENTERY	(2)	(2)	(0)	(0)	(0)
NODULE; MOTTLED	2				
NODULE; WHITE		1			
NODULE; YELLOW		1			
PANCREAS	(49)	(50)	(50)	(50)	(50)
MASS; TAN			1	1	

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
NODULE; TAN			1	1	1
NODULE; TAN, TWO				1	
SWELLING; CLEAR		1			
PHARYNX	(50)	(50)	(50)	(50)	(50)
SALIVARY GLANDS	(50)	(50)	(50)	(50)	(50)
LEFT; NODULE; WHITE			1		
STOMACH, FORESTOMACH	(50)	(50)	(50)	(50)	(50)
FOCUS; DARK		1			
NODULE; TAN					1
NODULE		1			
STOMACH, GLANDULAR	(50)	(50)	(50)	(50)	(50)
FOCUS; DARK		1			
TONGUE	(50)	(50)	(50)	(50)	(50)
CARDIOVASCULAR SYSTEM					
AORTA	(50)	(50)	(50)	(50)	(50)
HEART	(49)	(50)	(50)	(50)	(50)

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
ENDOCRINE SYSTEM					
ADRENAL GLAND	(49)	(50)	(50)	(50)	(50)
LEFT; CYST; CLEAR	1				
LEFT; ENLARGED; MOTTLED	1	2			
LEFT; ENLARGED; RED			1		
LEFT; ENLARGED	1				
ENLARGED		1	1		
RIGHT; MASS; TAN				1	
BILATERAL; SMALL				1	
RIGHT; SMALL			1		
PARATHYROID GLAND	(50)	(50)	(50)	(50)	(50)
PITUITARY GLAND	(50)	(50)	(50)	(50)	(50)
CYST; RED			1		
ENLARGED; DARK	2	3	2	3	4
ENLARGED; MOTTLED	4	5	3	7	5
ENLARGED; RED	3	3	5	2	4
ENLARGED; TAN		1	1		3
FOCUS; RED	1		1		
MASS; PINK		1			
NODULE; DARK			1		
NODULE; RED	2	1	4		1
NODULE; WHITE				1	
THYROID GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; ENLARGED; PALE	1				
LEFT; ENLARGED; TAN				1	
LEFT; ENLARGED					1
RIGHT; ENLARGED; TAN				1	
RIGHT; FOCUS; WHITE				1	

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

PA46: Summary of Gross Pathology (Chronic Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 01/28/2022
Time Report Requested: 10:20:48
Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
GENERAL BODY SYSTEM					
ABDOMEN	(2)	(1)	(0)	(0)	(1)
ACCUMULUATION; CLEAR	2				
ACCUMULUATION; RED		1			
FLUID; CLEAR					1
CARCASS	(50)	(50)	(50)	(50)	(50)

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
GENITAL SYSTEM					
CERVIX	(50)	(50)	(50)	(50)	(50)
MASS; TAN				1	
MASS; WHITE		1		1	
MASS		1			
CLITORAL GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; ENLARGED			2		
OVARY, LEFT	(49)	(50)	(50)	(50)	(50)
CYST; CLEAR	5	8	4	4	5
CYST; CLEAR, TWO			1		
CYST; RED				1	
OVARY, RIGHT	(49)	(50)	(50)	(50)	(49)
CYST; CLEAR	3	5	1	3	3
CYST; CLEAR, TWO					1
CYST; RED			1	1	
MASS; DARK		1			
MASS; TAN	1				
OVIDUCT	(0)	(0)	(0)	(0)	(1)
UTERUS	(50)	(50)	(50)	(50)	(50)
LEFT; CYST; CLEAR					1
BILATERAL; DILATION; DARK				2	
BILATERAL; DILATION; RED			1		1
LEFT; DILATION	1				
RIGHT; DILATION; DARK	1				
DILATION; DARK	1				
LEFT; MASS; MOTTLED		1	1	1	
LEFT; MASS; RED	1	1			
LEFT; MASS; TAN	1	1		1	

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
LEFT; MASS; WHITE					1
RIGHT; MASS; MOTTLED	2			1	
RIGHT; MASS; RED			1		
RIGHT; MASS; TAN	1			2	1
MASS; MOTTLED	1				
LEFT; NODULE; TAN			1		
LEFT; NODULE; YELLOW					1
RIGHT; NODULE; MOTTLED		1			
RIGHT; NODULE; TAN			1	1	
RIGHT; NODULE; YELLOW					1
VAGINA	(50)	(50)	(50)	(50)	(50)
DORSAL; MASS; MOTTLED					1
MASS; TAN	2				

Study Number: C11054B-01**Test Type:** TOX**Route:** Dosing in Water**Species/Strain:** Rat/Harlan Sprague Dawley**PA46: Summary of Gross Pathology (Chronic Animals)****Test Compound:** Sulfolane**CAS Number:** 126-33-0**Date Report Requested:** 01/28/2022**Time Report Requested:** 10:20:48**Lab:** Battelle**F1 Female: F1 Core Animals**

	Treatment Groups (mg/L)				
	0	30	100	300	1000
HEMATOLYMPHOID SYSTEM					
LYMPH NODE	(3)	(1)	(0)	(0)	(0)
BILATERAL; RENAL; ENLARGED; TAN	1				
ILLIAC; ENLARGED; TAN	1				
LUMBAR; BILATERAL; ENLARGED; TAN	1				
LYMPH NODE, AXILLARY	(1)	(0)	(1)	(0)	(1)
BILATERAL; ENLARGED; TAN	1				
LEFT; ENLARGED; DARK					1
ENLARGED; MOTTLED			1		
LYMPH NODE, MANDIBULAR	(50)	(50)	(50)	(50)	(50)
ENLARGED; CLEAR			1		
ENLARGED; DARK			1		
ENLARGED; RED		1			
ENLARGED; TAN	1				
LYMPH NODE, MEDIASTINAL	(0)	(0)	(1)	(0)	(0)
ENLARGED; TAN			1		
LYMPH NODE, MESENTERIC	(49)	(50)	(50)	(50)	(50)
DISCOLORATION; DARK	1				
ENLARGED; RED		1			
ENLARGED; TAN	2		1		
ENLARGED; WHITE		1			
ENLARGED; YELLOW		1			
SPLEEN	(49)	(50)	(50)	(50)	(50)
ENLARGED; DARK	1			1	1
ENLARGED; PALE				1	
ENLARGED; RED	2	2	1		1
ENLARGED; TAN	1				
ENLARGED			1	2	2

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

PA46: Summary of Gross Pathology (Chronic Animals)
Test Compound: Sulfolane
CAS Number: 126-33-0

Date Report Requested: 01/28/2022
Time Report Requested: 10:20:48
Lab: Battelle

F1 Female: F1 Core Animals					
Treatment Groups (mg/L)					
	0	30	100	300	1000
MASS; MOTTLED			1		
SMALL; RED					1
THYMUS	(49)	(50)	(50)	(50)	(50)
ENLARGED; TAN	1				
MASS; TAN				1	
SMALL	1				

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

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Lab: Battelle

F1 Female: F1 Core Animals

Treatment Groups (mg/L)

INTEGUMENTARY SYSTEM

MAMMARY GLAND

0 30 100 300 1000

ABDOMINAL; MASS; MOTTLED	1	3	1	1	1
ABDOMINAL; MASS; TAN	1	1			1
ABDOMINAL; MASS; WHITE					1
BILATERAL; INGUINAL; MASS; MOTTLED				1	
INGUINAL; LEFT; MASS; TAN		1			
INGUINAL; MASS; MOTTLED	3	1		1	3
LEFT; ABDOMINAL; MASS; GREEN		1	1		
LEFT; ABDOMINAL; MASS; MOTTLED	3	6		3	
LEFT; ABDOMINAL; MASS; RED			1		
LEFT; ABDOMINAL; MASS; TAN	3	4	1	6	3
LEFT; AXILLARY; MASS; DARK			1		
LEFT; AXILLARY; MASS; MOTTLED	1	2	1		
LEFT; AXILLARY; MASS; TAN		1	1		1
LEFT; AXILLARY; MASS			1		
LEFT; CERVICAL; MASS; MOTTLED		1	1		1
LEFT; CERVICAL; MASS; TAN		2			
LEFT; DORSAL; MASS; MOTTLED			1		
LEFT; INGUINAL; MASS; MOTTLED	2	1	1		2
LEFT; INGUINAL; MASS; TAN	2	3	4	3	2
LEFT; INGUINAL; MASS			1		
LEFT; THORACIC; MASS; MOTTLED	1	2	1		
LEFT; THORACIC; MASS; RED		1			
LEFT; THORACIC; MASS; TAN	6	4	5	4	3
LEFT; THORACIC; MASS; WHITE				1	
LEFT; THORACIC; MASS; YELLOW					1
LEFT; MASS; MOTTLED			1		3

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals

	Treatment Groups (mg/L)				
	0	30	100	300	1000
LEFT; MASS; TAN	1				1
RIGHT; ABDOMINAL; MASS; MOTTLED	2	4	3		
RIGHT; ABDOMINAL; MASS; PALE				1	
RIGHT; ABDOMINAL; MASS; RED	1	1	1		
RIGHT; ABDOMINAL; MASS; TAN	3	3	2	4	2
RIGHT; AXILLARY; MASS; MOTTLED	3	1	1	2	1
RIGHT; AXILLARY; MASS; RED	1				
RIGHT; AXILLARY; MASS; TAN		3	3	3	1
RIGHT; CERVICAL; MASS; MOTTLED				1	
RIGHT; CERVICAL; MASS; TAN				2	
RIGHT; INGUINAL; MASS; MOTTLED	1	3	1	1	2
RIGHT; INGUINAL; MASS; TAN	2	2		1	2
RIGHT; THORACIC; MASS; MOTTLED	2	2	2	5	1
RIGHT; THORACIC; MASS; TAN	5	6	4	5	2
RIGHT; THORACIC; MASS; WHITE				1	
RIGHT; THORACIC; MASS			1		
RIGHT; VENTRAL; MASS; TAN		1			
RIGHT; MASS; MOTTLED					1
RIGHT; MASS; RED				1	
RIGHT; MASS; TAN	3		1		1
THORACIC; MASS; DIFFUSE, MOTTLED		1			
THORACIC; MASS; MOTTLED		1	1	1	2
THORACIC; MASS; TAN	2				2
VENTRAL; ABDOMINAL; MASS; MOTTLED				1	
VENTRAL; CERVICAL; MASS; RED				1	
VENTRAL; MASS; MOTTLED	1				1
VENTRAL; MASS; TAN				1	
MASS; MOTTLED			1		

Study Number: C11054B-01**Test Type:** TOX**Route:** Dosing in Water**Species/Strain:** Rat/Harlan Sprague Dawley**PA46: Summary of Gross Pathology (Chronic Animals)****Test Compound:** Sulfolane**CAS Number:** 126-33-0**Date Report Requested:** 01/28/2022**Time Report Requested:** 10:20:48**Lab:** Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
MASS; TAN	2				
RIGHT; ABDOMINAL; NODULE; DARK		1			
RIGHT; CERVICAL; NODULE; RED			1		
SKIN	(50)	(50)	(50)	(50)	(50)
DORSAL; THORACIC; CRUST; RED		1			
RIGHT; PAW; CRUST; DARK					1
FACE; LEFT; MASS; MOTTLED					1
LEFT; DORSAL; MASS; TAN		1			
LEFT; THORACIC; MASS; MOTTLED					1
LEFT; THORACIC; MASS; YELLOW			1		
RIGHT; HINDLIMB; MASS; PALE					1
MUSCULOSKELETAL SYSTEM					
BONE	(0)	(0)	(0)	(0)	(1)
BONE, FEMUR	(50)	(50)	(50)	(50)	(50)
MUSCLE, THIGH	(50)	(50)	(50)	(50)	(50)
SKELETAL MUSCLE	(0)	(1)	(2)	(0)	(0)
RIGHT; HINDLIMB; MASS; MOTTLED			1		
RIGHT; MANDIBLE; MASS; TAN			1		
DIAPHRAGM; THICK; WHITE		1			
NERVOUS SYSTEM					
BRAIN	(50)	(50)	(50)	(50)	(50)
NERVE, SCIATIC	(50)	(50)	(50)	(50)	(50)
NERVE, TIBIAL	(50)	(50)	(50)	(50)	(50)
NERVE, TRIGEMINAL	(0)	(0)	(1)	(0)	(0)
SPINAL CORD	(50)	(50)	(50)	(50)	(50)
TRIGEMINAL GANGLION	(50)	(50)	(50)	(50)	(50)

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals

	Treatment Groups (mg/L)				
	0	30	100	300	1000
RESPIRATORY SYSTEM					
LARYNX	(50)	(50)	(50)	(50)	(50)
LUNG	(49)	(50)	(50)	(50)	(50)
DISCOLORATION; MOTTLED		2		2	
ACCESSORY LOBE; FOCUS; WHITE		1			
LEFT; RIGHT; FOCUS; CAUDAL		1			
LEFT; RIGHT; FOCUS; CAUDAL, WHITE	1	7	5	2	
LEFT; FOCUS; FIVE, WHITE	1				
LEFT; FOCUS; PALE	1				
LEFT; FOCUS; TWO, WHITE			1		
LEFT; FOCUS; WHITE	1	4	2	2	1
LOBE, LEFT; FOCUS; FIVE, WHITE	1				
LOBE, LEFT; FOCUS; FOUR, WHITE		1			
LOBE, LEFT; FOCUS; THREE, WHITE	1				
LOBE, LEFT; FOCUS; WHITE			1	1	1
RIGHT; CRANIAL; FOCUS; CAUDAL, WHITE					1
RIGHT; CRANIAL; FOCUS; WHITE	1	1			
RIGHT; FOCUS; CAUDAL, WHITE	1	2	1		
RIGHT; FOCUS; FOUR, WHITE	1				
RIGHT; FOCUS; PALE	1				
RIGHT; FOCUS; TWO, WHITE	1	1			
RIGHT; FOCUS; WHITE	1				1
FOCUS; RED	1				
FOCUS; TAN	2				
FOCUS; WHITE	22	15	14	16	25
FOCUS; YELLOW			1		
LEFT; MASS; TAN		1			
LOBE, MIDDLE, RIGHT; MASS; TAN		1			

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals					
	Treatment Groups (mg/L)				
	0	30	100	300	1000
RIGHT; CRANIAL; MASS; TAN		1			
RIGHT; MASS; CAUDAL; RED			1		
RIGHT; NODULE; CAUDAL; WHITE			1		
NOSE	(50)	(50)	(50)	(50)	(50)
THORAX	(1)	(1)	(0)	(0)	(1)
ACCUMULUATION; CLEAR	1				
ACCUMULUATION; RED		1			
FLUID; CLEAR					1
TRACHEA	(50)	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM					
EYE	(50)	(49)	(50)	(50)	(50)
LEFT; DISCOLORATION; OPAQUE	1				
LEFT; DISCOLORATION; RED			1		
RIGHT; DISCOLORATION; OPAQUE				1	
HARDERIAN GLAND	(50)	(49)	(50)	(50)	(50)
ZYMBALS GLAND	(50)	(50)	(50)	(50)	(50)
LEFT; CERVICAL; MASS; MOTTLED			1		
LEFT; MASS; YELLOW			1		
RIGHT; MASS; MOTTLED					1

Study Number: C11054B-01

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46: Summary of Gross Pathology (Chronic Animals)

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 01/28/2022

Time Report Requested: 10:20:48

Lab: Battelle

F1 Female: F1 Core Animals						
		Treatment Groups (mg/L)				
		0	30	100	300	1000
URINARY SYSTEM						
KIDNEY, LEFT		(49)	(50)	(50)	(50)	(50)
CYST; CLEAR				1		1
CYST; CLEAR, FOUR					1	
DEFORMITY; PALE			2		1	3
DEFORMITY; TAN				1		2
DEFORMITY		4		1		2
PELVIS; DILATION; CLEAR						1
PELVIS; DILATION			1		1	
DILATION						1
ENLARGED; TAN						1
NODULE; TAN		1				
NODULE; WHITE		1		1		
KIDNEY, RIGHT		(49)	(50)	(50)	(50)	(50)
CYST; CLEAR		1			1	1
CYST				1		
DEFORMITY; PALE			2		1	3
DEFORMITY; TAN				1		2
DEFORMITY		4		1		2
PELVIS; DILATION; CLEAR						1
PELVIS; DILATION			1			
URINARY BLADDER		(49)	(50)	(50)	(50)	(50)
MASS; TAN		1				

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LEGEND

Censored animals are animals not in one of the other disposition categories that are removed prior to the end of the study. The censored animals are included in the pathology data.

Number of animals examined for each tissue shown in parentheses.

Number of animals affected given for each observation

**** END OF REPORT ****