

Study Number: I11054B

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

PA46s: Summary of Gross Pathology

Test Compound: Sulfolane

CAS Number: 126-33-0

Date Report Requested: 09/14/2021

Time Report Requested: 13:48:57

Lab: BRT with EPL

Study Number:

I11054B

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.3.2

Stat Version:

v2.7.2A

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Lab: BRT with EPL

F1 Male: Immunopath

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
Disposition Summary						
Animals Initially In Study	12	12	12	12	12	8
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	12	12	12	12	12	8
Number of Animals Examined	12	12	12	12	12	8

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Lab: BRT with EPL

F1 Male: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
ALIMENTARY SYSTEM						
INTESTINE, LARGE, COLON	(12)	(12)	(12)	(12)	(12)	(0)
FOCUS; WHITE			1 (8.3%)			
LIVER	(12)	(12)	(12)	(12)	(12)	(8)
ACCESSORY LOBE; DEFORMITY						1 (12.5%)
LOBE, LATERAL, RIGHT; DEFORMITY				2 (16.7%)		
LOBE, LEFT; DEFORMITY; TAN				1 (8.3%)		
LOBE, LEFT; DEFORMITY			1 (8.3%)	1 (8.3%)		2 (25.0%)
CAUDATE LOBE; DISCOLORATION; BLACK, DIFFUSE, MODERATE					1 (8.3%)	
CAUDATE LOBE; FOCUS; BLACK			1 (8.3%)			
LOBE, LEFT; FOCUS; RED						1 (12.5%)
FOCUS				1 (8.3%)		
MALFORMATION				1 (8.3%)		
CAUDATE LOBE; NODULE; BROWN				1 (8.3%)		
CAUDATE LOBE; NODULE; BROWN, DARK				1 (8.3%)	1 (8.3%)	
NODULE						1 (12.5%)
CAUDATE LOBE; SMALL				2 (16.7%)	1 (8.3%)	
PANCREAS	(12)	(12)	(12)	(12)	(12)	(0)
FOCUS; DARK					1 (8.3%)	
NODULE; MOTTLED					1 (8.3%)	
STOMACH, FORESTOMACH	(12)	(12)	(12)	(12)	(12)	(8)
DIVERTICULUM	1 (8.3%)		2 (16.7%)	1 (8.3%)		
CARDIOVASCULAR SYSTEM						
HEART	(12)	(12)	(12)	(12)	(12)	(0)
DISCOLORATION; MILD, MULTIFOCAL			1 (8.3%)			

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F1 Male: Immunopath

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
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ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

HEMATOLYMPHOID SYSTEM

SPLEEN	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY			1 (8.3%)			
FOCUS; RED					1 (8.3%)	
SMALL; MARKED						1 (12.5%)
SMALL; MODERATE	0					7 (87.5%) **
THYMUS	(0)	(0)	(0)	(0)	(0)	(8)
SMALL; MARKED	0					8 (100.0%) **

INTEGUMENTARY SYSTEM

SUBCUTIS	(12)	(12)	(12)	(12)	(12)	(8)
THORACIC; MASS; FIRM	1 (8.3%)					
TAIL	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY	1 (8.3%)					

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

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Lab: BRT with EPL

F1 Male: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
RESPIRATORY SYSTEM						
LUNG	(12)	(12)	(12)	(12)	(12)	(8)
APICAL LOBE; RIGHT; DISCOLORATION; DIFFUSE, MILD, RED						1 (12.5%)
NODULE; BROWN, DARK				1 (8.3%)	1 (8.3%)	
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
KIDNEY, RIGHT	(12)	(12)	(12)	(12)	(12)	(0)
MASS; FIRM	0 **				4 (33.3%) *	
MASS; SOFT	0 *				2 (16.7%)	

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Lab: BRT with EPL

F1 Male: SRBC

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
Disposition Summary						
Animals Initially In Study	12	12	12	12	12	8
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	12	12	12	12	12	8
Number of Animals Examined	12	12	12	12	12	8

ALIMENTARY SYSTEM

None

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

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Lab: BRT with EPL

F1 Male: SRBC

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
HEMATOLYMPHOID SYSTEM						
SPLEEN	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY; DEPRESSED, MILD, ONE				1 (8.3%)		
SMALL; MILD			2 (16.7%)			2 (25.0%)
SMALL; MODERATE	0					6 (75.0%) **
THYMUS	(12)	(12)	(12)	(12)	(12)	(8)
SMALL; MARKED	0					8 (100.0%) **
SMALL; MILD			2 (16.7%)			
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
None						
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
KIDNEY, LEFT	(12)	(12)	(12)	(12)	(12)	(8)
CYST; CLEAR, TWO	1 (8.3%)					
KIDNEY, RIGHT	(12)	(12)	(12)	(12)	(12)	(0)
CYST; CLEAR, MILD, TWO				1 (8.3%)		
CYST; CLEAR, ONE				1 (8.3%)		

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Lab: BRT with EPL

F1 Female: Immunopath

Treatment Groups (mg/L)

	0	30	100	300	1000	15 mg/kg CPS
Disposition Summary						
Animals Initially In Study	12	12	12	12	12	8
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	12	12	12	12	12	8
Number of Animals Examined	12	12	12	12	12	8

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Lab: BRT with EPL

F1 Female: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
ALIMENTARY SYSTEM						
LIVER	(12)	(12)	(12)	(12)	(12)	(8)
LOBE, LATERAL, RIGHT; DEFORMITY				1 (8.3%)		
LOBE, LEFT; DEFORMITY			1 (8.3%)	1 (8.3%)	2 (16.7%)	
DEFORMITY	1 (8.3%)	1 (8.3%)				
ENLARGED; MODERATE		1 (8.3%)				
CAUDATE LOBE; FOCUS; BROWN, DARK		1 (8.3%)				
CAUDATE LOBE; FOCUS; BROWN, DARK, ONE		1 (8.3%)				
CAUDATE LOBE; FOCUS; DARK, RED					1 (8.3%)	
CAUDATE LOBE; FOCUS; MOTTLED		1 (8.3%)				
CAUDATE LOBE; FOCUS; RED				1 (8.3%)		
LEFT; LOBE, LATERAL; FOCUS; WHITE				1 (8.3%)		
LOBE, LEFT; FOCUS; RED					1 (8.3%)	
LOBE, LEFT; FOCUS; WHITE					1 (8.3%)	
LOBE, MEDIAN; FOCUS; WHITE					1 (8.3%)	
FOCUS; BROWN, DARK		1 (8.3%)				1 (12.5%)
FOCUS; RED					1 (8.3%)	
CAUDATE LOBE; CAPSULE; LESION		1 (8.3%)				
LOBE, MEDIAN; MASS; FIRM, TAN						1 (12.5%)
CAUDATE LOBE; NODULE; BROWN, DARK		1 (8.3%)		1 (8.3%)	1 (8.3%)	
CAUDATE LOBE; NODULE; BROWN, DARK, ONE			1 (8.3%)			
CAUDATE LOBE; NODULE; FIRM			1 (8.3%)			
CAUDATE LOBE; NODULE		1 (8.3%)				
LOBE, LEFT; NODULE; BROWN, DARK					1 (8.3%)	
LOBE, LEFT; NODULE					1 (8.3%)	
LOBE, MEDIAN; RIGHT; NODULE; TAN				1 (8.3%)		
LOBE, MEDIAN; NODULE; FIRM, TAN						1 (12.5%)
LOBE, MEDIAN; NODULE					1 (8.3%)	

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Lab: BRT with EPL

F1 Female: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
CAUDATE LOBE; SMALL SMALL; MILD SMALL; MODERATE		1 (8.3%)			1 (8.3%)	1 (12.5%) 2 (25.0%) 1 (12.5%)
STOMACH, FORESTOMACH DEFORMITY DIVERTICULUM	(12)	(12)	(12)	(12)	(12)	(8) (8) 2 (25.0%)
CARDIOVASCULAR SYSTEM						
HEART FOCUS; DARK	(12)	(12)	(12)	(12)	(12)	(0) 1 (8.3%)
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
PERITONEUM CYST	(12)	(12)	(12)	(12)	(12)	(0) 1 (8.3%)
GENITAL SYSTEM						
None						

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Lab: BRT with EPL

F1 Female: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
HEMATOLYMPHOID SYSTEM						
SPLEEN	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY	1 (8.3%)					
ENLARGED; MODERATE				1 (8.3%)		
NODULE	1 (8.3%)	2 (16.7%)		1 (8.3%)		
SMALL; MARKED						1 (12.5%)
SMALL; MILD		1 (8.3%)				2 (25.0%)
SMALL; MODERATE	0			1 (8.3%)		5 (62.5%) **
THYMUS	(12)	(12)	(12)	(12)	(12)	(8)
DISCOLORATION; MILD, MOTTLED		1 (8.3%)				
ENLARGED; MODERATE				1 (8.3%)		
SMALL; MARKED	0					5 (62.5%) **
SMALL; MILD	0					3 (37.5%) *
INTEGUMENTARY SYSTEM						
TAIL	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY	1 (8.3%)	6 (50.0%) *	3 (25.0%)	3 (25.0%)	1 (8.3%)	
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						

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Lab: BRT with EPL

F1 Female: Immunopath

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
RESPIRATORY SYSTEM						
LUNG	(12)	(12)	(12)	(12)	(12)	(8)
ADHESION; MILD	1 (8.3%)	1 (8.3%)				
ADHESION	1 (8.3%)					
DISCOLORATION; DIFFUSE, MILD, RED			1 (8.3%)			
DISCOLORATION; DIFFUSE, MODERATE, RED			1 (8.3%)			
SMALL; MILD						2 (25.0%)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
KIDNEY, RIGHT	(12)	(12)	(12)	(12)	(12)	(0)
CYST; CLEAR, ONE				1 (8.3%)		
CYST; CLEAR, THREE			1 (8.3%)		1 (8.3%)	
CYST; CLEAR, TWO					1 (8.3%)	
ENLARGED; MODERATE		1 (8.3%)				

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Lab: BRT with EPL

F1 Female: SRBC

	Treatment Groups (mg/L)					
	0	30	100	300	1000	15 mg/kg CPS
Disposition Summary						
Animals Initially In Study	12	12	12	12	12	8
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	12	12	12	12	12	8
Number of Animals Examined	12	12	12	12	12	8
ALIMENTARY SYSTEM						
None						
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
None						
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOLYMPHOID SYSTEM						
SPLEEN	(12)	(12)	(12)	(12)	(12)	(8)
DEFORMITY; MILD	1 (8.3%)	1 (8.3%)				
SMALL; MILD						1 (12.5%)
SMALL; MODERATE	0					7 (87.5%) **
THYMUS	(0)	(0)	(0)	(0)	(0)	(8)
SMALL; MARKED	0					8 (100.0%) **

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F1 Female: SRBC

Treatment Groups (mg/L)

0

30

100

300

1000

15 mg/kg CPS

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

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LEGEND

Censored animals are scheduled for sacrifice 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. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion then a 0 is included for the control group on the table for that lesion.

Number (percent) of animals affected given for each observation

Statistical analysis for the positive control group compared to the vehicle control group was performed using the Fisher Exact test.

All trend and pairwise p-values are reported as one-sided.

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 $P \leq 0.01$

CPS = Cyclophosphamide

**** END OF REPORT ****