

Study Number: C15011B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

PA46s: Summary of Gross Pathology
Test Compound: 2-Ethyltoluene
CAS Number: 611-14-3

Date Report Requested: 03/17/2021
Time Report Requested: 05:58:19
Lab: Battelle

Study Number: C15011B-01
Study Gender: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.1.8

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F0 Female

Treatment Groups (ppm)

	0	150	300	600	900	1200
Disposition Summary						
Animals Initially In Study	12	12	12	12	12	12
Censored			1	1	2	
Early Deaths						
Found Dead						4
Sacrificed, Moribund					4	8
Survivors						
Scheduled Sacrifice, Terminal	12	12	11	11	6	
Number of Animals Examined	1		2	1	7	12

ALIMENTARY SYSTEM

LIVER	(1)	(0)	(2)	(1)	(7)	(12)
LOBE, MEDIAN; DEFORMITY						1 (8.3%)
DEFORMITY; PALE					1 (14.3%)	3 (25.0%)
DISCOLORATION; PALE					1 (14.3%)	
DISCOLORATION; RED						1 (8.3%)
STOMACH, FORESTOMACH	(1)	(0)	(2)	(1)	(7)	(12)
DISCOLORATION; RED					2 (28.6%)	10 (83.3%)
STOMACH, GLANDULAR	(1)	(0)	(2)	(1)	(7)	(12)
DISCOLORATION; RED					2 (28.6%)	10 (83.3%)

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

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F0 Female

	Treatment Groups (ppm)					
	0	150	300	600	900	1200
GENERAL BODY SYSTEM						
ABDOMEN	(1)	(0)	(2)	(1)	(7)	(12)
FLUID; RED						2 (16.7%)
GENITAL SYSTEM						
None						
HEMATOLYMPHOID SYSTEM						
LYMPH NODE, MESENTERIC	(1)	(0)	(2)	(1)	(7)	(12)
DISCOLORATION; RED						1 (8.3%)
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
THORAX	(1)	(0)	(2)	(1)	(7)	(12)
FLUID; CLEAR					1 (14.3%)	5 (41.7%)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
KIDNEY, LEFT	(1)	(0)	(2)	(1)	(7)	(12)
DISCOLORATION; PALE					1 (14.3%)	
KIDNEY, RIGHT	(1)	(0)	(2)	(1)	(7)	(12)
DISCOLORATION; PALE					1 (14.3%)	

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F1 Male: F1 Biosample

	Treatment Groups (ppm)	
	0	600
Disposition Summary		
Animals Initially In Study	6	6
Censored		3
Early Deaths		
Found Dead		2
Sacrificed, Moribund		1
Survivors		
Scheduled Sacrifice, Terminal	6	
Number of Animals Examined		6
ALIMENTARY SYSTEM		
STOMACH, FORESTOMACH DISCOLORATION; RED	(0)	(6) 1 (16.7%)
STOMACH, GLANDULAR DISCOLORATION; RED	(0)	(6) 4 (66.7%)
CARDIOVASCULAR SYSTEM		
None		
ENDOCRINE SYSTEM		
None		
GENERAL BODY SYSTEM		
ABDOMEN FLUID; RED	(0)	(6) 1 (16.7%)
GENITAL SYSTEM		
None		

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F1 Male: F1 Biosample

	Treatment Groups (ppm)	
	0	600
HEMATOLYMPHOID SYSTEM		
THYMUS	(0)	(6)
ENLARGED; YELLOW		1 (16.7%)
INTEGUMENTARY SYSTEM		
SKIN	(0)	(6)
VENTRAL; THORACIC; THICK; YELLOW		1 (16.7%)
MUSCULOSKELETAL SYSTEM		
None		
NERVOUS SYSTEM		
None		
RESPIRATORY SYSTEM		
None		
SPECIAL SENSES SYSTEM		
None		
URINARY SYSTEM		
None		

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F1 Female: F1 Biosample

	Treatment Groups (ppm)	
	0	600
Disposition Summary		
Animals Initially In Study	6	6
Censored		2
Early Deaths		
Found Dead		3
Sacrificed, Moribund		1
Survivors		
Scheduled Sacrifice, Terminal	6	
Number of Animals Examined		6
ALIMENTARY SYSTEM		
STOMACH, FORESTOMACH	(0)	(6)
DISCOLORATION; RED		1 (16.7%)
STOMACH, GLANDULAR	(0)	(6)
DISCOLORATION; RED		4 (66.7%)
CARDIOVASCULAR SYSTEM		
None		
ENDOCRINE SYSTEM		
None		
GENERAL BODY SYSTEM		
None		
GENITAL SYSTEM		
None		

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F1 Female: F1 Biosample

	Treatment Groups (ppm)	
	0	600
HEMATOLYMPHOID SYSTEM		
LYMPH NODE, MESENTERIC		
DISCOLORATION; RED	(0)	(6) 1 (16.7%)
INTEGUMENTARY SYSTEM		
None		
MUSCULOSKELETAL SYSTEM		
None		
NERVOUS SYSTEM		
None		
RESPIRATORY SYSTEM		
THORAX		
FLUID; YELLOW	(0)	(6) 1 (16.7%)
SPECIAL SENSES SYSTEM		
None		
URINARY SYSTEM		
None		

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F1 Male: F1 Core

Treatment Groups (ppm)

	0	150	300	600
Disposition Summary				
Animals Initially In Study	8	8	8	8
Censored				4
Early Deaths				
Found Dead				3
Sacrificed, Moribund				1
Survivors				
Scheduled Sacrifice, Terminal	8	8	8	
Number of Animals Examined	8	8	8	8

ALIMENTARY SYSTEM

LIVER	(8)	(8)	(8)	(8)
LOBE, MEDIAN; DEFORMITY		1 (12.5%)		
STOMACH, GLANDULAR	(8)	(8)	(8)	(8)
DISCOLORATION; DARK	0 *			2 (25.0%)
DISCOLORATION; RED	0 **			4 (50.0%) *

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

None

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F1 Male: F1 Core

Treatment Groups (ppm)

	0	150	300	600
HEMATOLYMPHOID SYSTEM				
THYMUS	(8)	(8)	(8)	(8)
ENLARGED; YELLOW				1 (12.5%)
INTEGUMENTARY SYSTEM				
SKIN	(8)	(8)	(8)	(8)
VENTRAL; THORACIC; THICK; YELLOW	0 *			2 (25.0%)
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
THORAX	(8)	(8)	(8)	(8)
FLUID; YELLOW				1 (12.5%)
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
KIDNEY, RIGHT	(8)	(8)	(8)	(8)
DILATION			1 (12.5%)	1 (12.5%)

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F1 Female: F1 Core

Treatment Groups (ppm)

	0	150	300	600
Disposition Summary				
Animals Initially In Study	8	8	8	8
Censored				5
Early Deaths				
Found Dead				2
Sacrificed, Moribund				1
Survivors				
Scheduled Sacrifice, Terminal	8	8	8	
Number of Animals Examined	8	8	8	8

ALIMENTARY SYSTEM

LIVER	(8)	(8)	(8)	(8)
LOBE, MEDIAN; DEFORMITY		1 (12.5%)		
LOBE, MEDIAN; NODULE		1 (12.5%)		
STOMACH, FORESTOMACH	(8)	(8)	(8)	(8)
DISCOLORATION; RED , TWO ENLARGED				1 (12.5%)
STOMACH, GLANDULAR	(8)	(8)	(8)	(8)
DISCOLORATION; MOTTLED				1 (12.5%)
DISCOLORATION; RED	0 **			5 (62.5%) *

CARDIOVASCULAR SYSTEM

None

ENDOCRINE SYSTEM

None

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F1 Female: F1 Core

Treatment Groups (ppm)

	0	150	300	600
GENERAL BODY SYSTEM				
ABDOMEN	(8)	(8)	(8)	(8)
FLUID; YELLOW				1 (12.5%)
GENITAL SYSTEM				
None				
HEMATOLYMPHOID SYSTEM				
LYMPH NODE, MESENTERIC	(8)	(8)	(8)	(8)
DISCOLORATION; RED				1 (12.5%)
THYMUS	(8)	(8)	(8)	(8)
ENLARGED; YELLOW	0 *			2 (25.0%)
INTEGUMENTARY SYSTEM				
SKIN	(8)	(8)	(8)	(8)
VENTRAL; THORACIC; THICK; YELLOW	0 *			2 (25.0%)
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
THORAX	(8)	(8)	(8)	(8)
FLUID; YELLOW	0 **			3 (37.5%)
SPECIAL SENSES SYSTEM				
None				

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F1 Female: F1 Core

Treatment Groups (ppm)

	0	150	300	600
URINARY SYSTEM				
KIDNEY, LEFT	(8)	(8)	(8)	(8)
PELVIS; DILATION			1 (12.5%)	

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LEGEND

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 of animals with observation reported with percent incidence in parentheses

No statistical analysis was performed on the F0 or F1 Biosample animals.

Statistical analysis of F1 Core animals was performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) tests.

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 $P \leq 0.01$

**** END OF REPORT ****