

Study Number: C11049-01
Test Type: TOX
Route: Nose-Only Inhalation
Species/Strain: Rat/Harlan Sprague Dawley

PA46s: Summary of Gross Pathology
Test Compound: Trimethylsilyldiazomethane
CAS Number: 18107-18-1

Date Report Requested: 10/22/2020
Time Report Requested: 09:19:13
Lab: Battelle with CRL

Study Number: C11049-01
Study Gender: Male
PWG Approval Date: See web page for date of PWG Approval

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Route: Nose-Only Inhalation

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Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 09:19:13

Lab: Battelle with CRL

Male: 1 Day Exposure

Treatment Groups (ppm)

	0	10	25 ppm Hexanes
Disposition Summary			
Animals Initially In Study	8	8	8
Early Deaths			
Survivors			
Scheduled sacrifice, terminal (SD 1)	8	8	8
Number of Animals Examined	8	8	8
ALIMENTARY SYSTEM			
ESOPHAGUS	(8)	(8)	(8)
INTESTINE, LARGE, CECUM	(8)	(8)	(8)
INTESTINE, LARGE, COLON	(8)	(8)	(8)
INTESTINE, LARGE, RECTUM	(8)	(8)	(8)
INTESTINE, SMALL, DUODENUM	(8)	(8)	(8)
INTESTINE, SMALL, ILEUM	(8)	(8)	(8)
INTESTINE, SMALL, JEJUNUM	(8)	(8)	(8)
LIVER	(8)	(8)	(8)
PANCREAS	(8)	(8)	(8)
PHARYNX	(8)	(8)	(8)
SALIVARY GLANDS	(8)	(8)	(8)
STOMACH, FORESTOMACH	(8)	(8)	(8)
STOMACH, GLANDULAR	(8)	(8)	(8)
TONGUE	(8)	(8)	(8)
CARDIOVASCULAR SYSTEM			
AORTA	(8)	(8)	(8)
HEART	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 1 Day Exposure

	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
ENDOCRINE SYSTEM			
ADRENAL GLAND	(8)	(8)	(8)
PARATHYROID GLAND	(8)	(8)	(8)
PITUITARY GLAND	(8)	(8)	(8)
THYROID GLAND	(8)	(8)	(8)
GENERAL BODY SYSTEM			
CARCASS	(8)	(8)	(8)
GENITAL SYSTEM			
EPIDIDYMIS, LEFT	(8)	(8)	(8)
EPIDIDYMIS, RIGHT	(8)	(8)	(8)
PREPUTIAL GLAND	(8)	(8)	(8)
PROSTATE	(8)	(8)	(8)
SEMINAL VESICLE	(8)	(8)	(8)
TESTIS, LEFT	(8)	(8)	(8)
TESTIS, RIGHT	(8)	(8)	(8)
HEMATOLYMPHOID SYSTEM			
LYMPH NODE	(8)	(8)	(8)
LYMPH NODE, BRONCHIAL	(8)	(8)	(8)
LYMPH NODE, MANDIBULAR	(8)	(8)	(8)
LYMPH NODE, MEDIASTINAL	(8)	(8)	(8)
LYMPH NODE, MESENTERIC	(8)	(8)	(8)
SPLEEN	(8)	(8)	(8)
THYMUS	(8)	(8)	(8)
INTEGUMENTARY SYSTEM			
MAMMARY GLAND	(8)	(8)	(8)
SKIN	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 1 Day Exposure

Treatment Groups (ppm)

	0	10	25 ppm Hexanes
MUSCULOSKELETAL SYSTEM			
BONE, FEMUR	(8)	(8)	(8)
MUSCLE, THIGH	(8)	(8)	(8)
NERVOUS SYSTEM			
BRAIN	(8)	(8)	(8)
NERVE, SCIATIC	(8)	(8)	(8)
NERVE, TIBIAL	(8)	(8)	(8)
SPINAL CORD	(8)	(8)	(8)
TRIGEMINAL GANGLION	(8)	(8)	(8)
RESPIRATORY SYSTEM			
LARYNX	(8)	(8)	(8)
LUNG	(8)	(8)	(8)
NOSE	(8)	(8)	(8)
TRACHEA	(8)	(8)	(8)
SPECIAL SENSES SYSTEM			
EYE	(8)	(8)	(8)
HARDERIAN GLAND	(8)	(8)	(8)
ZYMBALS GLAND	(8)	(8)	(8)
URINARY SYSTEM			
KIDNEY, LEFT	(8)	(8)	(8)
KIDNEY, RIGHT	(8)	(8)	(8)
URINARY BLADDER	(8)	(8)	(8)

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Date Report Requested: 10/22/2020

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Lab: Battelle with CRL

Male: 1 Day Recovery

	Treatment Groups (ppm)		
	0	10	25 ppm Hexanes
Disposition Summary			
Animals Initially In Study	8	8	8
Early Deaths			
Survivors			
Scheduled sacrifice, terminal (SD 9)	8	8	8
Number of Animals Examined	8	8	8
ALIMENTARY SYSTEM			
ESOPHAGUS	(8)	(8)	(8)
INTESTINE, LARGE, CECUM	(8)	(8)	(8)
INTESTINE, LARGE, COLON	(8)	(8)	(8)
INTESTINE, LARGE, RECTUM	(8)	(8)	(8)
INTESTINE, SMALL, DUODENUM	(8)	(8)	(8)
INTESTINE, SMALL, ILEUM	(8)	(8)	(8)
INTESTINE, SMALL, JEJUNUM	(8)	(8)	(8)
LIVER	(8)	(8)	(8)
LOBE, MEDIAN; DEFORMITY	1 (13.0%)		
PANCREAS	(8)	(8)	(8)
PHARYNX	(8)	(8)	(8)
SALIVARY GLANDS	(8)	(8)	(8)
STOMACH, FORESTOMACH	(8)	(8)	(8)
STOMACH, GLANDULAR	(8)	(8)	(8)
TONGUE	(8)	(8)	(8)
CARDIOVASCULAR SYSTEM			
AORTA	(8)	(8)	(8)
HEART	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 1 Day Recovery

Treatment Groups (ppm)

0

10

25 ppm Hexanes

ENDOCRINE SYSTEM

ADRENAL GLAND

(8)

(8)

(8)

PARATHYROID GLAND

(8)

(8)

(8)

PITUITARY GLAND

(8)

(8)

(8)

THYROID GLAND

(8)

(8)

(8)

GENERAL BODY SYSTEM

CARCASS

(8)

(8)

(8)

GENITAL SYSTEM

EPIDIDYMIS, LEFT

(8)

(8)

(8)

EPIDIDYMIS, RIGHT

(8)

(8)

(8)

PREPUTIAL GLAND

(8)

(8)

(8)

PROSTATE

(8)

(8)

(8)

SEMINAL VESICLE

(8)

(8)

(8)

TESTIS, LEFT

(8)

(8)

(8)

TESTIS, RIGHT

(8)

(8)

(8)

HEMATOLYMPHOID SYSTEM

LYMPH NODE

(8)

(8)

(8)

LYMPH NODE, BRONCHIAL

(8)

(8)

(8)

LYMPH NODE, MANDIBULAR

(8)

(8)

(8)

LYMPH NODE, MEDIASTINAL

(8)

(8)

(8)

LYMPH NODE, MESENTERIC

(8)

(8)

(8)

SPLEEN

(8)

(8)

(8)

THYMUS

(8)

(8)

(8)

INTEGUMENTARY SYSTEM

MAMMARY GLAND

(8)

(8)

(8)

SKIN

(8)

(8)

(8)

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Lab: Battelle with CRL

Male: 1 Day Recovery

Treatment Groups (ppm)

	0	10	25 ppm Hexanes
MUSCULOSKELETAL SYSTEM			
BONE, FEMUR	(8)	(8)	(8)
MUSCLE, THIGH	(8)	(8)	(8)
NERVOUS SYSTEM			
BRAIN	(8)	(8)	(8)
NERVE, SCIATIC	(8)	(8)	(8)
NERVE, TIBIAL	(8)	(8)	(8)
SPINAL CORD	(8)	(8)	(8)
TRIGEMINAL GANGLION	(8)	(8)	(8)
RESPIRATORY SYSTEM			
LARYNX	(8)	(8)	(8)
LUNG	(8)	(8)	(8)
NOSE	(8)	(8)	(8)
TRACHEA	(8)	(8)	(8)
SPECIAL SENSES SYSTEM			
EYE	(8)	(8)	(8)
HARDERIAN GLAND	(8)	(8)	(8)
ZYMBALS GLAND	(8)	(8)	(8)
URINARY SYSTEM			
KIDNEY, LEFT	(8)	(8)	(8)
KIDNEY, RIGHT	(8)	(8)	(8)
URINARY BLADDER	(8)	(8)	(8)

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Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 09:19:13

Lab: Battelle with CRL

Male: 5 Day Exposure

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
Disposition Summary						
Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Scheduled sacrifice, terminal (SD 5)	8	8	8	8	8	8
Number of Animals Examined	8	8	8	8	8	8
ALIMENTARY SYSTEM						
ESOPHAGUS	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, CECUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, COLON	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, RECTUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, DUODENUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, ILEUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, JEJUNUM	(8)	(8)	(8)	(8)	(8)	(8)
LIVER	(8)	(8)	(8)	(8)	(8)	(8)
PANCREAS	(8)	(8)	(8)	(8)	(8)	(8)
PHARYNX	(8)	(8)	(8)	(8)	(8)	(8)
SALIVARY GLANDS	(8)	(8)	(8)	(8)	(8)	(8)
STOMACH, FORESTOMACH	(8)	(8)	(8)	(8)	(8)	(8)
STOMACH, GLANDULAR	(8)	(8)	(8)	(8)	(8)	(8)
TONGUE	(8)	(8)	(8)	(8)	(8)	(8)
CARDIOVASCULAR SYSTEM						
AORTA	(8)	(8)	(8)	(8)	(8)	(8)
HEART	(8)	(8)	(8)	(8)	(8)	(8)

Study Number: C11049-01

Test Type: TOX

Route: Nose-Only Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

PA46s: Summary of Gross Pathology

Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 09:19:13

Lab: Battelle with CRL

Male: 5 Day Exposure

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
ENDOCRINE SYSTEM						
ADRENAL GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PARATHYROID GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PITUITARY GLAND	(8)	(8)	(8)	(8)	(8)	(8)
THYROID GLAND	(8)	(8)	(8)	(8)	(8)	(8)
GENERAL BODY SYSTEM						
CARCASS	(8)	(8)	(8)	(8)	(8)	(8)
GENITAL SYSTEM						
EPIDIDYMIS, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
EPIDIDYMIS, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
PREPUTIAL GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PROSTATE	(8)	(8)	(8)	(8)	(8)	(8)
SEMINAL VESICLE	(8)	(8)	(8)	(8)	(8)	(8)
TESTIS, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
TESTIS, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
HEMATOLYMPHOID SYSTEM						
LYMPH NODE	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, BRONCHIAL	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, MANDIBULAR	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, MEDIASTINAL	(8)	(8)	(8)	(8)	(8)	(8)
ENLARGED; DARK	0 **				8 (100.0%) **	
LYMPH NODE, MESENTERIC	(8)	(8)	(8)	(8)	(8)	(8)
SPLEEN	(8)	(8)	(8)	(8)	(8)	(8)
THYMUS	(8)	(8)	(8)	(8)	(8)	(8)

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Date Report Requested: 10/22/2020

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Lab: Battelle with CRL

Male: 5 Day Exposure

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
INTEGUMENTARY SYSTEM						
MAMMARY GLAND	(8)	(8)	(8)	(8)	(8)	(8)
SKIN	(8)	(8)	(8)	(8)	(8)	(8)
MUSCULOSKELETAL SYSTEM						
BONE, FEMUR	(8)	(8)	(8)	(8)	(8)	(8)
MUSCLE, THIGH	(8)	(8)	(8)	(8)	(8)	(8)
NERVOUS SYSTEM						
BRAIN	(8)	(8)	(8)	(8)	(8)	(8)
NERVE, SCIATIC	(8)	(8)	(8)	(8)	(8)	(8)
NERVE, TIBIAL	(8)	(8)	(8)	(8)	(8)	(8)
SPINAL CORD	(8)	(8)	(8)	(8)	(8)	(8)
TRIGEMINAL GANGLION	(8)	(8)	(8)	(8)	(8)	(8)
RESPIRATORY SYSTEM						
LARYNX	(8)	(8)	(8)	(8)	(8)	(8)
LUNG	(8)	(8)	(8)	(8)	(8)	(8)
DISCOLORATION; MOTTLED	0 **				8 (100.0%) **	
NOSE	(8)	(8)	(8)	(8)	(8)	(8)
TRACHEA	(8)	(8)	(8)	(8)	(8)	(8)
SPECIAL SENSES SYSTEM						
EYE	(8)	(8)	(8)	(8)	(8)	(8)
HARDERIAN GLAND	(8)	(8)	(8)	(8)	(8)	(8)
ZYMBALS GLAND	(8)	(8)	(8)	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 5 Day Exposure

Treatment Groups (ppm)

	0	0.3	1	3	10	25 ppm Hexanes
URINARY SYSTEM						
KIDNEY, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
KIDNEY, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
URINARY BLADDER	(8)	(8)	(8)	(8)	(8)	(8)

Study Number: C11049-01

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Lab: Battelle with CRL

Male: 5 Day Recovery

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
Disposition Summary						
Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Scheduled sacrifice, terminal (SD 9)	8	8	8	8	8	8
Number of Animals Examined	8	8	8	8	8	8
ALIMENTARY SYSTEM						
ESOPHAGUS	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, CECUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, COLON	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, LARGE, RECTUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, DUODENUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, ILEUM	(8)	(8)	(8)	(8)	(8)	(8)
INTESTINE, SMALL, JEJUNUM	(8)	(8)	(8)	(8)	(8)	(8)
LIVER	(8)	(8)	(8)	(8)	(8)	(8)
PANCREAS	(8)	(8)	(8)	(8)	(8)	(8)
PHARYNX	(8)	(8)	(8)	(8)	(8)	(8)
SALIVARY GLANDS	(8)	(8)	(8)	(8)	(8)	(8)
STOMACH, FORESTOMACH	(8)	(8)	(8)	(8)	(8)	(8)
STOMACH, GLANDULAR	(8)	(8)	(8)	(8)	(8)	(8)
TONGUE	(8)	(8)	(8)	(8)	(8)	(8)
CARDIOVASCULAR SYSTEM						
AORTA	(8)	(8)	(8)	(8)	(8)	(8)
HEART	(8)	(8)	(8)	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 5 Day Recovery

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
ENDOCRINE SYSTEM						
ADRENAL GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PARATHYROID GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PITUITARY GLAND	(8)	(8)	(8)	(8)	(8)	(8)
THYROID GLAND	(8)	(8)	(8)	(8)	(8)	(8)
GENERAL BODY SYSTEM						
CARCASS	(8)	(8)	(8)	(8)	(8)	(8)
GENITAL SYSTEM						
EPIDIDYMIS, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
EPIDIDYMIS, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
PREPUTIAL GLAND	(8)	(8)	(8)	(8)	(8)	(8)
PROSTATE	(8)	(8)	(8)	(8)	(8)	(8)
SEMINAL VESICLE	(8)	(8)	(8)	(8)	(8)	(8)
TESTIS, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
TESTIS, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
HEMATOLYMPHOID SYSTEM						
LYMPH NODE	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, BRONCHIAL	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, MANDIBULAR	(8)	(8)	(8)	(8)	(8)	(8)
LYMPH NODE, MEDIASTINAL	(8)	(8)	(8)	(8)	(8)	(8)
ENLARGED; DARK	0 **				8 (100.0%) **	
LYMPH NODE, MESENTERIC	(8)	(8)	(8)	(8)	(8)	(8)
SPLEEN	(8)	(8)	(8)	(8)	(8)	(8)
THYMUS	(8)	(8)	(8)	(8)	(8)	(8)

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Lab: Battelle with CRL

Male: 5 Day Recovery

	Treatment Groups (ppm)					
	0	0.3	1	3	10	25 ppm Hexanes
INTEGUMENTARY SYSTEM						
MAMMARY GLAND	(8)	(8)	(8)	(8)	(8)	(8)
SKIN	(8)	(8)	(8)	(8)	(8)	(8)
MUSCULOSKELETAL SYSTEM						
BONE, FEMUR	(8)	(8)	(8)	(8)	(8)	(8)
MUSCLE, THIGH	(8)	(8)	(8)	(8)	(8)	(8)
NERVOUS SYSTEM						
BRAIN	(8)	(8)	(8)	(8)	(8)	(8)
NERVE, SCIATIC	(8)	(8)	(8)	(8)	(8)	(8)
NERVE, TIBIAL	(8)	(8)	(8)	(8)	(8)	(8)
SPINAL CORD	(8)	(8)	(8)	(8)	(8)	(8)
TRIGEMINAL GANGLION	(8)	(8)	(8)	(8)	(8)	(8)
RESPIRATORY SYSTEM						
LARYNX	(8)	(8)	(8)	(8)	(8)	(8)
LUNG	(8)	(8)	(8)	(8)	(8)	(8)
DISCOLORATION; MOTTLED	0 **			1 (13.0%)	8 (100.0%) **	
NOSE	(8)	(8)	(8)	(8)	(8)	(8)
TRACHEA	(8)	(8)	(8)	(8)	(8)	(8)
SPECIAL SENSES SYSTEM						
EYE	(8)	(8)	(8)	(8)	(8)	(8)
HARDERIAN GLAND	(8)	(8)	(8)	(8)	(8)	(8)
ZYMBALS GLAND	(8)	(8)	(8)	(8)	(8)	(8)

Study Number: C11049-01

Test Type: TOX

Route: Nose-Only Inhalation

Species/Strain: Rat/Harlan Sprague Dawley

PA46s: Summary of Gross Pathology

Test Compound: Trimethylsilyldiazomethane

CAS Number: 18107-18-1

Date Report Requested: 10/22/2020

Time Report Requested: 09:19:13

Lab: Battelle with CRL

Male: 5 Day Recovery

Treatment Groups (ppm)

	0	0.3	1	3	10	25 ppm Hexanes
URINARY SYSTEM						
KIDNEY, LEFT	(8)	(8)	(8)	(8)	(8)	(8)
KIDNEY, RIGHT	(8)	(8)	(8)	(8)	(8)	(8)
URINARY BLADDER	(8)	(8)	(8)	(8)	(8)	(8)

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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

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

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (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 $P \leq 0.01$

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

Phase day range of terminal sacrifice shown in parentheses in disposition summary

The 1 Day Exposure animals were exposed for one day and then sacrificed on study day 1 (first day of exposure was study day 0); the 1 Day Recovery animals were exposed for 1 day and then sacrificed on study day 9; the 5 Day Exposure animals were exposed for five days and then sacrificed on study day 5; the 5 Day Recovery animals were exposed for five days and then sacrificed on study day 9.

**** END OF REPORT ****