

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:22

First Dose M/F: NA / NA

Lab: NIEHS

C Number: C92007

Lock Date: 02/04/1999

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date: NONE

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First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male
OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1
	9	9	9	9	9	9	9	0	0	0
	6	7	7	8	8	9	9	0	2	5
	6	2	5	1	6	1	5	9	3	3
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Vacuolization Cytoplasmic								1	1		2 1.0
Infiltration Cellular, Mononuclear Cl, Focal										1	1 1.0
Infiltration Cellular, Mononuclear Cl, Multifocal	1	1			1			1			4 1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy, Focal						1	1	1	1		4 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis	+	+	+	M	+	+	M	+	+	+	8
Perivascular, Infiltration Cellular, Mononuclear Cl, Focal	1										1 1.0
Perivascular, Infiltration Cellular, Mononuclear Cl, Multifocal				1							1 1.0
Testes	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	1	1
	9	9	9	9	9	9	9	0	0	0
	6	7	7	8	8	9	9	0	2	5
	6	2	5	1	6	1	5	9	3	3
	*TOTALS									

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
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Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Focal						1					1 1.0
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Multifocal							1	1	1		3 1.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage, Acute, Focal							2		1		2 1.5
Hemorrhage, Multifocal, Acute								1			1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Focal					2	3					2 2.5

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F 344/N Rat Male
OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	1	1
	9	9	9	9	9	9	9	0	0	0
	6	7	7	8	8	9	9	0	2	5
	6	2	5	1	6	1	5	9	3	3

*TOTALS

Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Multifocal	1	1	1	2	4	1.3
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Nasolacrim Dct, Inflammation, Suppurative, Acute, Focal	1	1	1.0
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Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Renal Tubule, Regeneration, Focal	1										1	1.0
Renal Tubule, Regeneration, Multifocal			1	1	1	1	1	1	1		8	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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Time Report Requested: 04:31:22

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male
10PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	1	1
	9	9	9	9	9	0	0	0	0	0
	7	7	8	8	9	0	1	1	2	3
	6	7	4	8	9	4	1	7	9	2

*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10		
Centrilobular, Vacuolization Cytoplasmic			2	1	2	1	1	1	2	1	2	9	1.4
Infiltration Cellular, Mononuclear Cl, Focal			1			1	1					3	1.0
Infiltration Cellular, Mononuclear Cl, Multifocal				1	1					1		3	1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10		
Cardiomyopathy, Focal			1	1								2	1.0
Cardiomyopathy, Multifocal							1			1		2	1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Epididymis	+	+	M	M	M	+	+	+	M	+	6		
Perivascular, Infiltration Cellular, Mononuclear Cl, Focal							1			1		2	1.0
Testes	+	+	+	+	+	+	+	+	+	+	10		

Hematopoietic System

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10PPM

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0			
	9	9	9	9	9	9	9	9	9	9			
	5	5	5	5	5	5	5	5	5	5			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	1	1	1	1	1			
	9	9	9	9	9	0	0	0	0	0			
	7	7	8	8	8	9	0	1	1	2			
	6	7	4	8	8	9	4	1	7	9			
											*TOTALS		
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Integumentary System													
NONE													
Musculoskeletal System													
NONE													
Nervous System													
Brain	+	+	+	+	+	+	+	+	+	+	10		
Thalamus, Mineralization, Focal											3	1	3.0
Respiratory System													
Larynx	+	+	+	+	+	+	+	+	+	+	10		
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Multifocal	1	1	1		1	1	1	1		1	8	1.0	
Lung	+	+	+	+	+	+	+	+	+	+	10		
Alveolus, Infiltration Cellular, Histiocyte, Focal								2			1	2.0	
Hemorrhage, Acute, Focal					1	1					2	1.0	
Hemorrhage, Multifocal, Acute	1	1		2				2	1		5	1.4	
Nose	+	+	+	+	+	+	+	+	+	+	10		
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Focal				2	1						2	1.5	

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F 344/N Rat Male
10PPM

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	5	5	5	5	5	5	5	5	5	5		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	1	1	1	1	1		
	9	9	9	9	9	0	0	0	0	0		
	7	7	8	8	9	0	1	1	2	3		
	6	7	4	8	9	4	1	7	9	2		
											*TOTALS	
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Focal	1										1	1.0
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Multifocal		1			1				1		3	1.0
Respirat Epith, Turbinate, Hyperplasia, Multifocal	2	1	2	2	1	2	2	2	2	1	10	1.7
Respirat Epith, Turbinate, Metaplasia, Squamous, Multifocal	2	2	2	2	1		2		1		7	1.7
Special Senses System												
NONE												
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	+	10
Interstitialium, Infiltration Cellular, Mononuclear Cl, Focal					1						1	1.0
Renal Tubule, Accumulation, Hyaline Droplet, Multifocal				1							1	1.0
Renal Tubule, Hyaline Droplet, Multifocal				1							1	1.0
Renal Tubule, Regeneration, Focal						1					1	1.0
Renal Tubule, Regeneration, Multifocal	1	1	1	1	1		1		1	1	8	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Focal									1		1	1.0

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CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male
5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1
	9	9	9	9	0	0	0	0	0	0
	7	7	8	9	1	2	3	4	4	5
	0	8	2	7	5	4	1	1	9	4
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Vacuolization Cytoplasmic	1	1	1	1	2		1	1		1	8 1.1
Hematopoietic Cell Proliferation, Focal			1								1 1.0
Infiltration Cellular, Mononuclear Cl, Multifocal			1			1	1	1		1	5 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

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Lab: NIEHS

F 344/N Rat Male
5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1
	9	9	9	9	0	0	0	0	0	0
	7	7	8	9	1	2	3	4	4	5
	0	8	2	7	5	4	1	1	9	4

*TOTALS

NONE
Nervous System

NONE
Respiratory System

Nose	+	+	+	+	+	+	+	+	+	+	10
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Focal					1						1 1.0
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Multifocal		1	1	1		1		1		1	6 1.0
Respirat Epith, Septum, Hyperplasia, Multifocal						2	2				2 2.0
Respirat Epith, Turbinate, Hyperplasia, Multifocal		2	2	2	2	2	2	2	1	1	9 1.8
Respirat Epith, Turbinate, Metaplasia, Squamous, Multifocal	1	2	2	1	2	2	2	2			8 1.8

Special Senses System

NONE
Urinary System

NONE

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First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male
2.5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	1	1
	9	9	9	9	9	0	0	0	0	0
	6	6	7	7	8	0	2	3	3	5
	0	5	3	4	3	3	1	4	7	2
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Vacuolization Cytoplasmic	1	1		1	1	1					5 1.0
Infiltration Cellular, Mononuclear Cl, Focal	1	1	1					1		1	5 1.0
Infiltration Cellular, Mononuclear Cl, Multifocal						1					1 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

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F 344/N Rat Male
2.5PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	1	1
	9	9	9	9	9	0	0	0	0	0
	6	6	7	7	8	0	2	3	3	5
	0	5	3	4	3	3	1	4	7	2

*TOTALS

NONE
Nervous System

NONE
Respiratory System

Nose	+	+	+	+	+	+	+	+	+	+	10
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Focal				1				2			2 1.5
Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Multifocal	1	1	1			1			1		5 1.0
Respirat Epith, Turbinate, Hyperplasia, Multifocal	1	2	2	1	2	2	1		2	2	9 1.7
Respirat Epith, Turbinate, Metaplasia, Squamous, Multifocal					1	1					2 1.0

Special Senses System

NONE
Urinary System

NONE

END OF MALE DATA

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+ ..Tissue examined microscopically

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Lab: NIEHS

F 344/N Rat Female
OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	1	1	1	1	1	1
	6	8	8	9	0	1	2	3	3	3
	1	0	3	9	5	6	8	1	4	8
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear CI, Multifocal			1	1	1	1	1	1		1	8	1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10	
Cardiomyopathy, Focal	1						2			1	3	1.3
Cardiomyopathy, Multifocal								1			1	1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	10	
Uterus	+	+	+	+	+	+	+	+	+	+	10	
Dilatation					2	1					2	1.5

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Femoral, Inflammation, Multifocal, Granulomatous						2					1	2.0

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	1	1	1	1	1	1
	6	8	8	9	0	1	2	3	3	3
	1	0	3	9	5	6	8	1	4	8
	*TOTALS									

Spleen	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
NONE											
Musculoskeletal System											
NONE											
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Larynx	+	+	+	+	+	+	+	+	+	+	10
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Focal					1						1 1.0
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Multifocal	1	1	2	1		2	1	1	1	1	9 1.2
Lamina Propria, Inflammation, Multifocal, Suppurative, Acute			1								1 1.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage, Acute, Focal				1			1		1		3 1.0
Hemorrhage, Multifocal, Acute				1							1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Lamina Propria, Infiltration Cellular, Mononuclear Cl, Multifocal						2					1 2.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
OPPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	1	1	1	1	1	1
	6	8	8	9	0	1	2	3	3	3
	1	0	3	9	5	6	8	1	4	8

*TOTALS

Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Focal	1										1	1.0
---	---	--	--	--	--	--	--	--	--	--	---	-----

Nasolacrim Dct, Infiltration Cellular, Mononuclear Cl, Multifocal	2		1	2		1	1				5	1.4
--	---	--	---	---	--	---	---	--	--	--	---	-----

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Collect Tub, Mineralization, Multifocal				1	1	1		1	1	1	6	1.0
Interstitial, Infiltration Cellular, Mononuclear Cl, Focal							1				1	1.0
Renal Tubule, Regeneration, Multifocal				1							1	1.0
Urinary Bladder	+	+	+	+	+	+	M	+	+	+	9	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female 10PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	*TOTALS	
	0	0	1	1	1	1	1	1	1	1		
	8	8	0	2	2	2	2	4	5	5		
	7	9	0	1	2	6	9	6	1	2		

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cl, Focal				1							1 1.0
Infiltration Cellular, Mononuclear Cl, Multifocal			1		1	1			1	1	5 1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy, Focal				1			1				2 1.0
Cardiomyopathy, Multifocal	1	1							1		3 1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Dilatation				2				1			2 1.5

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
10PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	5	5	5	5	5	5	5	5	5	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	1	1	1	1	1	1	1	1
	8	8	0	2	2	2	2	4	5	5
	7	9	0	1	2	6	9	6	1	2

*TOTALS

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

Brain

+ + + + + + + + + + 10

Respiratory System

Larynx

+ + + + + + + + + + 10

Lamina Propria, Infiltration Cellular,
Mononuclear Cl, Focal

1 1 1 1 1 1 1 1 1 1 1.0

Lamina Propria, Infiltration Cellular,
Mononuclear Cl, Multifocal

1 1 1 1 1 1 1 1 2 1 9 1.1

Lung

+ + + + + + + + + + 10

Hemorrhage, Acute, Focal

1 1 1.0

Hemorrhage, Multifocal, Acute

1 1 1 3 1.0

Nose

+ + + + + + + + + + 10

Nasolacrim Dct, Infiltration Cellular,
Mononuclear Cl, Multifocal

1 1 1 3 1.0

Respirat Epith, Septum, Hyperplasia,
Multifocal

2 2 2 2 2 2 6 2.0

Respirat Epith, Septum, Metaplasia,
Squamous, Multifocal

2 2 2 1 2 5 1.8

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
10PPM

| | DAY ON TEST | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---------|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Respirat Epith, Turbinate, Hyperplasia, Multifocal | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 10 | 2.0 |
| Respirat Epith, Turbinate, Metaplasia, Squamous, Multifocal | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 10 | 1.8 |
| Special Senses System | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| Urinary System | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | 10 | |
| Collect Tub, Mineralization, Focal | | | 1 | | | | | | | | 1 | 1.0 |
| Collect Tub, Mineralization, Multifocal | 1 | 1 | | | 1 | | | 1 | | | 4 | 1.0 |
| Renal Tubule, Regeneration, Focal | | 1 | | 1 | | | | | | | 2 | 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 10 | |

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
5PPM

| | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 7 | 7 | 7 | 9 | 0 | 1 | 1 | 3 | 3 |
| | 8 | 3 | 7 | 8 | 2 | 6 | 3 | 9 | 6 | 9 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cl, Focal | | | | | | 1 | 1 | | | | 2 1.0 |
| Infiltration Cellular, Mononuclear Cl, Multifocal | 1 | | 1 | 1 | | | | 1 | 1 | | 5 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
5PPM

| | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 7 | 7 | 7 | 9 | 0 | 1 | 1 | 3 | 3 |
| | 8 | 3 | 7 | 8 | 2 | 6 | 3 | 9 | 6 | 9 |
| | *TOTALS | | | | | | | | | |

Nervous System

NONE

Respiratory System

| | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--------|
| Nose | + | + | + | + | + | + | + | + | + | + | 10 |
| Nasolacrim Dct, Infiltration Cellular,
Mononuclear Cl, Focal | 1 | | | | | | 1 | | | | 2 1.0 |
| Nasolacrim Dct, Infiltration Cellular,
Mononuclear Cl, Multifocal | | 1 | | | 1 | | | | 1 | 2 | 4 1.3 |
| Respirat Epith, Turbinate, Hyperplasia,
Multifocal | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 10 1.6 |
| Respirat Epith, Turbinate, Metaplasia,
Squamous, Multifocal | | 1 | | | 1 | | 2 | | 2 | 2 | 5 1.6 |

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
2.5PPM

| | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 7 | 8 | 9 | 9 | 0 | 0 | 3 | 3 | 5 |
| | 5 | 1 | 5 | 4 | 6 | 1 | 9 | 2 | 3 | 4 |
| | *TOTALS | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Liver | + | + | + | + | + | + | + | + | + | + | 10 | |
| Bile Duct, Hyperplasia, Multifocal | | | | | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Mononuclear Cl, Focal | | | | | | | 1 | | | | 1 | 1.0 |
| Infiltration Cellular, Mononuclear Cl, Multifocal | | | 1 | 1 | | | | 1 | 1 | 1 | 5 | 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 92007-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: 2-Cyclohexen-1-one

CAS Number: 930-68-7

Date Report Requested: 10/16/2014

Time Report Requested: 04:31:23

First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Female
2.5PPM

| | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 7 | 8 | 9 | 9 | 0 | 0 | 3 | 3 | 5 |
| | 5 | 1 | 5 | 4 | 6 | 1 | 9 | 2 | 3 | 4 |

*TOTALS

NONE
Nervous System

NONE
Respiratory System

| | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Nose | + | + | + | + | + | + | + | + | + | + | 10 | | |
| Lamina Propria, Infiltration Cellular,
Mononuclear Cl, Multifocal | | | | | | | | | | | 2 | 1 | 2.0 |
| Nasolacrim Dct, Infiltration Cellular,
Mononuclear Cl, Focal | | | | | 1 | | | | | | 1 | 2 | 1.0 |
| Nasolacrim Dct, Infiltration Cellular,
Mononuclear Cl, Multifocal | 1 | | 1 | 1 | | | | | | | 3 | 1.0 | |
| Respirat Epith, Turbinate, Hyperplasia,
Multifocal | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 10 | 1.4 | |

Special Senses System

NONE
Urinary System

NONE

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
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1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked