

**Experiment Number:** 07018 - 01

**Test Type:** 14-WEEK

**Route:** DOSED WATER

**Species/Strain:** RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

**CAS Number:** 65039-09-0

**Date Report Requested:** 01/08/2020

**Time Report Requested:** 11:06:12

**First Dose M/F:** 05/09/13 / 05/10/13

**Lab:** BAT

Final\_1 - EMIM Rats

**NTP Study Number:** C07018

**Lock Date:** 05/25/2018

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

**Study Gender:** Both

**TDMSE Version:** 3.0.2.3\_002

**PWG Approval Date:** NONE

Experiment Number: 07018 - 01

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/08/2020

**Test Type:** 14-WFFK

#### Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

Time Report Requested: 11:06:12

**Route:** DOSED WATER

GAS Number: 65039-09-6

**First Dose M/E:** 05/09/13 / 05/10/13

**Species/Strain:** RATS/HSD

## Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST										
		0	0	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	9	9
2	2	2	2	2	2	2	2	2	2	2	2
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3
0	0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	9	0	*

## ALIMENTARY SYSTEM

## CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

#### M .. Missing tissue

X - Lesion present

#### A. Autolysis precludes evaluation

| ... Insufficient tissue

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/mL male	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2
Blood Vessel		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
Heart Cardiomyopathy		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	10
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	10

1 1.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	M	+	M	M	M	+	M	M	M		2
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10

10

**GENERAL BODY SYSTEM**

NONE												
------	--	--	--	--	--	--	--	--	--	--	--	--

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	10

2 2.0

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+ .. Tissue examined microscopically

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Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

	DAY ON TEST													* TOTALS
		0 0 9 2	0 0 9 2	0 0 9 2										
HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/mL male	ANIMAL ID	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 0 0	0 0 3 0 1			
Prostate		+ + + + + + + + + +												10
Seminal Vesicle		+ + + + + + + + + +												10
Testis		+ + + + + + + + + +												10
<b>HEMATOPOIETIC SYSTEM</b>														
Bone Marrow		+ + + + + + + + + +												10
Lymph Node, Mandibular		+ + + + + + + + + +												10
Lymph Node, Mesenteric		+ + + + + + + + + +												10
Spleen		+ + + + + + + + + +												10
Thymus		+ + + + + + + + + +												10
<b>INTEGUMENTARY SYSTEM</b>														
Mammary Gland		+ + + + + + + + + +												10
Skin		+ + + + + + + + + +												10
<b>MUSCULOSKELETAL SYSTEM</b>														
Bone		+ + + + + + + + + +												10
<b>NERVOUS SYSTEM</b>														

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

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X .. Lesion present

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 CAS Number: 65039-09-0

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 Time Report Requested: 11:06:12  
 First Dose M/F: 05/09/13 / 05/10/13  
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/mL male	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 2												
Brain		+	+	+	+	+	+	+	+	+	+	+	+	10
<b>RESPIRATORY SYSTEM</b>														
Lung		+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte							1			1				2 1.0
Nose		+	+	+	+	+	+	+	+	+	+	+	+	10
Olfactory Epithelium, Accumulation, Hyaline Droplet		1	1	1	1			1		1				5 1.0
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>														
Eye		+	+	+	+	+	+	+	+	+	+	+	+	10
Retina, Dysplasia									1					1 1.0
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte		1												1 1.0
Infiltration Cellular, Mononuclear Cell														1 1.0
<b>URINARY SYSTEM</b>														
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive		1	1	1	1	1		1	1	1	1			9 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	10

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

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X .. Lesion present

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 Time Report Requested: 11:06:12  
 First Dose M/F: 05/09/13 / 05/10/13  
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 10 mg/mL male	DAY ON TEST ANIMAL ID	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
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3
		3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell												2 1.0
	1		1									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell												1 1.0
	1											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular Mineral	+	+	+	+	+	+	+	+	+	+	+	10
	1		1		1							3 1.0

## CARDIOVASCULAR 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:  
 1) Minimal 3) Moderate  
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Species/Strain: RATS/HSD

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First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

	DAY ON TEST													* TOTALS
		0 0 9 2												
HARLAN SPRAGUE DAWLEY RATS MALE 10 mg/mL male	ANIMAL ID	0 0 3 3 1	0 0 3 3 2	0 0 3 3 3	0 0 3 3 5	0 0 3 3 6	0 0 3 3 7	0 0 3 3 8	0 0 3 3 9	0 0 3 3 0	0 0 3 3 0	0 0 3 3 0	0 0 3 3 0	
Blood Vessel		+ + + + + + + + + +											10	
Heart		+ + + + + + + + + +											10	
Cardiomyopathy		1 1 1											3 1.0	
<b>ENDOCRINE SYSTEM</b>														
Adrenal Cortex		+ + + + + + + + + +											10	
Adrenal Medulla		+ + + + + + + + + +											10	
Islets, Pancreatic		+ + + + + + + + + +											10	
Parathyroid Gland		+ M + M M + + M M M											4	
Pituitary Gland Pars Distalis, Cyst		+ + + + + + + + + +											10 1	
X														
Thyroid Gland		+ + + + + + + + + +											10	
<b>GENERAL BODY SYSTEM</b>														
NONE														
<b>GENITAL SYSTEM</b>														
Epididymis		+ + + + + + + + + +											10	
Preputial Gland		+ + + + + + + + + +											10	

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X .. Lesion present

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Experiment Number: 07018 - 01

**Test Type:** 14-WFFK

**Route:** DOSED WATER

**Species/Strain:** RATS/HSD

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Test Type: 14-WEEK

Route: DOSED WATER

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Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 10 mg/mL male	DAY ON TEST ANIMAL ID	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	
		2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	
		3	3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	0	
		* TOTALS										
Brain		+	+	+	+	+	+	+	+	+	+	10
<b>RESPIRATORY SYSTEM</b>												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Olfactory Epithelium, Accumulation, Hyaline Droplet		1	1	1			1	1	1	1		7 1.0
Trachea		+	+	+	+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>												
Eye		+	+	+	+	+	+	+	+	+	+	10
Retina, Dysplasia							1					1 1.0
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell		1										1 1.0
<b>URINARY SYSTEM</b>												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Nephropathy, Chronic Progressive		1	1	1	1	1	1	1	1	1		8 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10

\*\*\* END OF MALE DATA \*\*\*

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

+ .. Tissue examined microscopically

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**Test Type:** 14-WFFK

#### Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

Time Report Requested: 11:06:12

**Route:** DOSED WATER

CAS Number: 65039-09-

**First Dose M/E:** 05/09/13 / 05/10/13

**Species/Strain:** RATS/HSD

## Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/mL female	DAY ON TEST										
		0 0 9 2									
ANIMAL ID	0 0 3 4 1	0 0 3 4 2	0 0 3 4 3	0 0 3 4 4	0 0 3 4 5	0 0 3 4 6	0 0 3 4 7	0 0 3 4 8	0 0 3 4 9	0 0 3 5 0	

## ALIMENTARY SYSTEM

## CARDIOVASCULAR SYSTEM

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

± .. Tissue examined microscopically

#### M .. Missing tissue

X - Lesion present

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Species/Strain: RATS/HSD

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Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
<b>HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/mL female</b>	ANIMAL ID	9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3
		4	4	4	4	4	4	4	4	4	5
		1	2	3	4	5	6	7	8	9	0

**\* TOTALS**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	+	10
Valve, Fibrosis												1 1.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	10
Hypertrophy, Focal												1 1.0
Bilateral, Hypertrophy, Focal												1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	M	+	M	M	M	M	M	+	M		3
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active												1 1.0

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+ .. Tissue examined microscopically

X .. Lesion present

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Lab: BAT

	DAY ON TEST													* TOTALS
		0 0 9 2	0 0 9 2	0 0 9 2	0 0 9 2									
HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/mL female	ANIMAL ID	0 0 3 4 1	0 0 3 4 2	0 0 3 4 3	0 0 3 4 5	0 0 3 4 6	0 0 3 4 7	0 0 3 4 8	0 0 3 4 9	0 0 3 5	0 0 3 0			
Ovary		+	+	+	+	+	+	+	+	+	+	+	10	
Uterus		+	+	+	+	+	+	+	+	+	+	+	10	
<b>HEMATOPOIETIC SYSTEM</b>														
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node Mediastinal, Hemorrhage						+							1	
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	10	
Spleen		+	+	+	+	+	+	+	+	+	+	+	10	
Thymus		+	+	+	+	+	+	+	+	+	+	+	10	
<b>INTEGUMENTARY SYSTEM</b>														
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	10	
Skin		+	+	+	+	+	+	+	+	+	+	+	10	
<b>MUSCULOSKELETAL SYSTEM</b>														
Bone		+	+	+	+	+	+	+	+	+	+	+	10	
<b>NERVOUS SYSTEM</b>														

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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE <b>0 mg/mL female</b>	DAY ON TEST												
		0 0 9 2											
ANIMAL ID													<b>* TOTALS</b>
	0 0 3 4 1	0 0 3 4 2	0 0 3 4 3	0 0 3 4 5	0 0 3 4 6	0 0 3 4 7	0 0 3 4 8	0 0 3 4 9	0 0 3 4 0	0 0 3 4 0	0 0 3 4 0	0 0 3 4 0	
Brain	+ + + + + + + + + +												10
<b>RESPIRATORY SYSTEM</b>													
Lung	+ + + + + + + + + +												10
Infiltration Cellular, Histiocyte													1 1.0
Inflammation, Chronic													1 1.0
Nose	+ + + + + + + + + +												10
Goblet Cell, Respiratory Epithelium, Hyperplasia													1 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 1 1					1 1 1 1							7 1.0
Respiratory Epithelium, Inflammation, Suppurative	1			1		1							3 1.0
Respiratory Epithelium, Metaplasia, Squamous						2							1 2.0
Transitional Epithelium, Inflammation, Suppurative							1						1 1.0
Trachea	+ + + + + + + + + +												10
<b>SPECIAL SENSES SYSTEM</b>													
Eye	+ + + + + + + + + +												10
Retina, Dysplasia													1 1.0
Harderian Gland	+ + + + + + + + + +												10
<b>URINARY SYSTEM</b>													
Kidney	+ + + + + + + + + +												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: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
<b>HARLAN SPRAGUE DAWLEY RATS FEMALE</b>	<b>0 mg/mL female</b>	9	9	9	9	9	9	9	9	9	9	
		2	2	2	2	2	2	2	2	2	2	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	
		4	4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0	
		<b>* TOTALS</b>										
Infiltration Cellular, Mononuclear Cell												
Nephropathy, Chronic Progressive		1	1	1	2	1						
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	
<b>10</b>												

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 07018 - 01  
Test Type: 14-WEEK  
Route: DOSED WATER  
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride  
CAS Number: 65039-09-0

Date Report Requested: 01/08/2020  
Time Report Requested: 11:06:12  
First Dose M/F: 05/09/13 / 05/10/13  
Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE <b>1 mg/mL female</b>	ANIMAL ID	DAY ON TEST	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	
		2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	
		5	5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	0	
		<b>* TOTALS</b>										

### ALIMENTARY SYSTEM

Liver	+	1
Hepatodiaphragmatic Nodule	X	1
Stomach, Forestomach	+	1
Cyst	X	1

### CARDIOVASCULAR SYSTEM

NONE

### ENDOCRINE SYSTEM

NONE

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

NONE

### HEMATOPOIETIC SYSTEM

NONE

### INTEGUMENTARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

X .. Lesion present

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Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE <b>1 mg/mL female</b>	ANIMAL ID	DAY ON TEST											
		0	0	0	0	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	9	9
		2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3
		5	5	5	5	5	5	5	5	5	5	5	6
		1	2	3	4	5	6	7	8	9	9	0	0

\* TOTALS

### MUSCULOSKELETAL SYSTEM

NONE

### NERVOUS SYSTEM

NONE

### RESPIRATORY SYSTEM

NONE

### SPECIAL SENSES SYSTEM

NONE

### URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

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Experiment Number: 07018 - 01  
 Test Type: 14-WEEK  
 Route: DOSED WATER  
 Species/Strain: RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride  
 CAS Number: 65039-09-0

Date Report Requested: 01/08/2020  
 Time Report Requested: 11:06:12  
 First Dose M/F: 05/09/13 / 05/10/13  
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE <b>10 mg/mL female</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		9	9	9	9	9	9	9	9	9	9
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3
		7	7	7	7	7	7	7	7	7	8
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

### ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell							1	1				2 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

### CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	---	----

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X .. Lesion present

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 07018 - 01  
 Test Type: 14-WEEK  
 Route: DOSED WATER  
 Species/Strain: RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride  
 CAS Number: 65039-09-0

Date Report Requested: 01/08/2020  
 Time Report Requested: 11:06:12  
 First Dose M/F: 05/09/13 / 05/10/13  
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 10 mg/mL female	DAY ON TEST ANIMAL ID	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
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3
		7	7	7	7	7	7	7	7	7	8
		1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>									
Heart		+	+	+	+	+	+	+	+	+	10
<b>ENDOCRINE SYSTEM</b>											
Adrenal Cortex Bilateral, Hypertrophy, Focal		+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		M	M	+	M	M	+	M	+	M	4
Pituitary Gland		+	+	+	+	+	+	+	+	+	10
Thyroid Gland		+	+	+	+	+	+	+	+	+	10
<b>GENERAL BODY SYSTEM</b>											
NONE											
<b>GENITAL SYSTEM</b>											
Clitoral Gland		+	+	+	+	+	+	+	+	+	10
Ovary		+	+	+	+	+	+	+	+	+	10
Uterus		+	+	+	+	+	+	+	+	+	10
<b>HEMATOPOIETIC SYSTEM</b>											

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Experiment Number: 07018 - 01  
 Test Type: 14-WEEK  
 Route: DOSED WATER  
 Species/Strain: RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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 First Dose M/F: 05/09/13 / 05/10/13  
 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE <b>10 mg/mL female</b>	DAY ON TEST												
		0 0 9 2											
ANIMAL ID													<b>* TOTALS</b>
	0 0 3 7 1	0 0 3 7 2	0 0 3 7 3	0 0 3 7 4	0 0 3 7 5	0 0 3 7 6	0 0 3 7 7	0 0 3 7 8	0 0 3 7 9	0 0 3 7 0	0 0 3 7 1	0 0 3 7 2	
Bone Marrow	+ + + + + + + + + +												<b>10</b>
Lymph Node, Mandibular	+ + + + + + + + + +												<b>10</b>
Lymph Node, Mesenteric	+ + + + + + + + + +												<b>10</b>
Spleen	+ + + + + + + + + +												<b>10</b>
Thymus	+ + + + + + + + + +												<b>10</b>
<b>INTEGUMENTARY SYSTEM</b>													
Mammary Gland	+ + + + + + + + + +												<b>10</b>
Skin	+ + + + + + + + + +												<b>10</b>
<b>MUSCULOSKELETAL SYSTEM</b>													
Bone	+ + + + + + + + + +												<b>10</b>
<b>NERVOUS SYSTEM</b>													
Brain	+ + + + + + + + + +												<b>10</b>
<b>RESPIRATORY SYSTEM</b>													
Lung Infiltration Cellular, Histiocyte	+ + + + + + + + + +												<b>10</b>
Nose	+ + + + + + + + + +												<b>10</b>

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Experiment Number: 07018 - 01  
Test Type: 14-WEEK  
Route: DOSED WATER  
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride  
CAS Number: 65039-09-0

Date Report Requested: 01/08/2020  
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First Dose M/F: 05/09/13 / 05/10/13  
Lab: BAT

HARLAN SPRAGUE DAWLEY RATS FEMALE 10 mg/mL female	DAY ON TEST ANIMAL ID													* TOTALS
		0 0 9 2												
Olfactory Epithelium, Accumulation, Hyaline Droplet		1	1	1	1	1	1	1	1	1	1	1	7 1.0	
Trachea		+	+	+	+	+	+	+	+	+	+	+	10	
<b>SPECIAL SENSES SYSTEM</b>														
Eye		+	+	+	+	+	+	+	+	+	+	+	10	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	10	
<b>URINARY SYSTEM</b>														
Kidney Nephropathy, Chronic Progressive		+	+	+	+	+	+	+	+	+	+	+	10 1 1.0	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	10	

\*\*\* END OF REPORT \*\*\*

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