

Experiment Number: 05049 - 03
Test Type: 14-DAY
Route: DOSED WATER
Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Ionic liquid Toxicity
CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020
Time Report Requested: 12:10:10
First Dose M/F: 03/09/09 / 03/10/09
Lab: MBA

NTP Study Number: C05049
Lock Date: 12/04/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include 001 Control Male Include 012 1.0 mg/ml NBuPy Include 013 3.0 mg/ml NBuPy
Include 014 6.0 mg/ml NBuPy Include 015 Control Female Include 026 1.0 mg/ml NBuPy
Include 027 3.0 mg/ml NBuPy Include 028 6.0 mg/ml NBuPy
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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Ionic liquid Toxicity

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Date Report Requested: 04/24/2020

Time Report Requested: 12:10:10

First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

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	
		1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	
Control Male	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	

* TOTALS

ALIMENTARY SYSTEM

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1		1	1	1		1	1	1	1	8 1.0

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Lab: MBA

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	
		1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	
	Control Male										
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	1		
		1	2	3	4	5	6	7	8	9	
* TOTALS											

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	-----------

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Metaplasia, Osseous	1										1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	-----------

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HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		5	5	5	5	5	
1.0 mg/ml NBuPy	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	6	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	5
-------	---	---	---	---	---	----------

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 M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

HARLAN SPRAGUE DAWLEY RATS MALE 1.0 mg/ml NBuPy	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0		
	0	0	0	0	0		
	6	6	6	6	6		
	1	2	3	4	5		
							* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically

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First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

HARLAN SPRAGUE DAWLEY RATS MALE 3.0 mg/ml NBUpy	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	7	
		6	7	8	9	0	
							* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+		5
Depletion Glycogen				1			1 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Thymus	+	+	+	+	+		5
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INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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HARLAN SPRAGUE DAWLEY RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		5	5	5	5	5	
3.0 mg/ml NBuPy	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	7	
		6	7	8	9	0	

*** TOTALS**

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically

X .. Lesion present

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Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	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	
	7	7	7	7	7	
	1	2	3	4	5	
* TOTALS						

ALIMENTARY SYSTEM

Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Depletion Glycogen		1	1	1	1		4 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	5	
Cardiomyopathy	1	1		1	1		4 1.0

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL 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
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Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
HARLAN SPRAGUE DAWLEY RATS MALE	1	1	1	1	1	
6.0 mg/ml NBuPy	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	7	7	7	7	7	
	1	2	3	4	5	
						* TOTALS
Testes	+	+	+	+	+	5
HEMATOPOIETIC SYSTEM						
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Necrosis				1		1 1.0
INTEGUMENTARY SYSTEM						
NONE						
MUSCULOSKELETAL SYSTEM						
NONE						
NERVOUS SYSTEM						
Brain	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Lung	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
NONE						
URINARY 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

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First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
1	1	1	1	1	1	
5	5	5	5	5	5	
<hr/>						
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
0	0	0	0	0	0	
7	7	7	7	7	7	
1	2	3	4	5		
						* TOTALS
<hr/>						
Kidney	+	+	+	+	+	5

*** END OF MALE DATA ***

* .. 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

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Lab: MBA

HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	
	Control Female										
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		7	7	7	7	8	8	8	8	8	
		6	7	8	9	0	1	2	3	4	
* TOTALS											

ALIMENTARY SYSTEM

Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10 1.0

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	-----------

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Lab: MBA

HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	
	Control Female										
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		7	7	7	7	8	8	8	8	8	
		6	7	8	9	0	1	2	3	4	5
* TOTALS											

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	-----------

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	-----------

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	-----------

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HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		5	5	5	5	5	
3.0 mg/ml NBuPy	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		4	4	4	4	4	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	5
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CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Spleen	+	+	+	+	+	5
--------	---	---	---	---	---	----------

Thymus	+	+	+	+	+	5
--------	---	---	---	---	---	----------

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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

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First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

HARLAN SPRAGUE DAWLEY RATS FEMALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		5	5	5	5	5	
3.0 mg/ml NBuPy	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		4	4	4	4	4	
		1	2	3	4	5	

*** TOTALS**

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

DAY ON TEST	0	0	0	0	0				
	0	0	0	0	0				
HARLAN SPRAGUE DAWLEY RATS	1	1	1	1	1				
FEMALE	5	5	5	5	5				
6.0 mg/ml NBuPy									
ANIMAL ID	0	0	0	0	0				
	0	0	0	0	0				
	1	1	1	1	1				
	4	4	4	4	5				
	6	7	8	9	0				
	* TOTALS								
Ovary	+	+	+	+	+				5
HEMATOPOIETIC SYSTEM									
Spleen	+	+	+	+	+				5
Depletion Cellular			1						1 1.0
Thymus	+	+	+	+	+				5
Atrophy			2						1 2.0
Necrosis			2	1	1				3 1.3
INTEGUMENTARY SYSTEM									
NONE									
MUSCULOSKELETAL SYSTEM									
NONE									
NERVOUS SYSTEM									
Brain	+	+	+	+	+				5
RESPIRATORY SYSTEM									
Lung	+	+	+	+	+				5
SPECIAL SENSES 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: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:10:10

First Dose M/F: 03/09/09 / 03/10/09

Lab: MBA

HARLAN SPRAGUE DAWLEY RATS FEMALE 6.0 mg/ml NBuPy	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
		0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		4	4	4	4	5	
		6	7	8	9	0	
							* TOTALS

URINARY SYSTEM

Kidney	+	+	+	+	+		5
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*** 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

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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