

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Ionic liquid Toxicity
CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020
Time Report Requested: 12:07:24
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 005 3.0 mg/ml Emim	Include 006 10.0 mg/ml Emim
	Include 007 30.0 mg/ml Emim	Include 008 100.0 mg/ml Emim	Include 015 Control Female
	Include 019 3.0 mg/ml Emim	Include 020 10.0 mg/ml Emim	Include 021 30.0 mg/ml Emim
	Include 022 100.0 mg/ml Emim		
Study Gender:	Both		
TDMSE Version:	3.0.2.3_002		
PWG Approval Date:	NONE		

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 1

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Lung	Metaplasia	Osseous, Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 2

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 3

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 4

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 5

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 6

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------|-----------------------------|--------------------------|
| * Brain | * Heart | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Liver | * Lung |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | | | |
-

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 8

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

* Thymus

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 9

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 15

DOSE: Control Male

DISP: Terminal Sacrifice

HISTO: 10

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 26

TRT#: 5

SEX: Male

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 26

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 27

TRT#: 5

SEX: Male

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 27

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 28

TRT#: 5

SEX: Male

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 28

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 29

TRT#: 5

SEX: Male

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 29

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 30

TRT#: 5

SEX: Male

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 30

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 31

TRT#: 6

SEX: Male

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 31

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 32

TRT#: 6

SEX: Male

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 32

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 33

TRT#: 6

SEX: Male

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 33

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 34

TRT#: 6

SEX: Male

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 34

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 35

TRT#: 6

SEX: Male

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 35

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 36

TRT#: 7

SEX: Male

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 36

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Spleen

* Testes

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Liver

Depletion Glycogen

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 37

TRT#: 7

SEX: Male

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 37

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Spleen

* Testes

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Liver

Depletion Glycogen

Minimal

* Thymus

Necrosis

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 38

TRT#: 7

SEX: Male

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 38

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Spleen

* Testes

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Liver

Depletion Glycogen

Minimal

* Thymus

Necrosis

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 39

TRT#: 7

SEX: Male

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 39

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Spleen

* Testes

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Liver

Depletion Glycogen

Minimal

* Thymus

Necrosis

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 40

TRT#: 7

SEX: Male

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 40

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Spleen

* Testes

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Liver

Depletion Glycogen

Minimal

* Thymus

Necrosis

Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 41

TRT#: 8

SEX: Male

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 41

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

* Thymus

OBSERVATIONS

* Liver	Depletion Glycogen	Mild
* Spleen	Depletion Cellular	Minimal
* Testes	Degeneration	Minimal

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 42

TRT#: 8

SEX: Male

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 42

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Stomach, Forestomach
* Stomach, Glandular			

OBSERVATIONS

* Liver		Depletion Glycogen	Mild
		Necrosis	Multifocal, Minimal
	Hepatocyte	Necrosis	Minimal
Note: Hemorrhagic			
Note: Single cell			
* Spleen		Depletion Cellular	Minimal
* Testes		Degeneration	Minimal
* Thymus		Atrophy	Moderate
		Necrosis	Moderate

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 43

TRT#: 8

SEX: Male

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 43

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

* Spleen	* Thymus
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OBSERVATIONS

* Liver	Depletion Glycogen	Mild
* Testes	Degeneration	Mild

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 44

TRT#: 8

SEX: Male

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 44

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Stomach, Forestomach	* Stomach, Glandular

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Liver	Depletion Glycogen	Mild
* Spleen	Infiltration Cellular	Minimal
* Testes	Degeneration	Mild
* Thymus	Atrophy	Moderate
	Necrosis	Moderate

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 45

TRT#: 8

SEX: Male

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 45

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Stomach, Forestomach
* Stomach, Glandular			

MISSING

* Thymus

OBSERVATIONS

* Liver	Depletion Glycogen	Mild
* Spleen	Depletion Cellular	Minimal
* Testes	Degeneration	Mild

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 76

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 76

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 77

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 78

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 78

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 79

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 79

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 80

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 80

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 81

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 82

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 83

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 84

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 84

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
---------	----------------	---------

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 85

TRT#: 15

SEX: Female

DAY ON TEST: 15

DOSE: Control Female

DISP: Terminal Sacrifice

HISTO: 85

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
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Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 101

TRT#: 19

SEX: Female

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 101

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Ovary	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 102

TRT#: 19

SEX: Female

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 102

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

- | | | | |
|----------------------------|----------|-----------------------------|--------------------------|
| * Brain | * Heart | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Liver | * Lung |
| * Ovary | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | | | |
-

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 103

TRT#: 19

SEX: Female

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 103

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Ovary	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 104

TRT#: 19

SEX: Female

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 104

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

- | | | | |
|----------------------------|------------------------|-----------------------------|--------------------------|
| * Brain | * Heart | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Liver | * Ovary |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |

OBSERVATIONS

- | | | |
|---------------------------|------------|---------|
| * Lung | Hemorrhage | Minimal |
| [Hemorrhage TGLs = 1-7] | | |

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 105

TRT#: 19

SEX: Female

DAY ON TEST: 15

DOSE: 3.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 105

ORGAN AND ACCOUNTABLE SITE STATUS

PRESENT BUT NOT EXAMINED

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Liver	* Lung
* Ovary	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus			

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 106

TRT#: 20

SEX: Female

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Ovary

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 107

TRT#: 20

SEX: Female

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Ovary

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 108

TRT#: 20

SEX: Female

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Ovary

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 109

TRT#: 20

SEX: Female

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Ovary

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 110

TRT#: 20

SEX: Female

DAY ON TEST: 15

DOSE: 10.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Liver

* Lung

* Ovary

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 111

TRT#: 21

SEX: Female

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Spleen

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Ovary

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 112

TRT#: 21

SEX: Female

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Spleen

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Ovary

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 113

TRT#: 21

SEX: Female

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Spleen

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Ovary

* Stomach, Forestomach

* Stomach, Glandular

OBSERVATIONS

* Thymus

Necrosis

Mild

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ionic liquid Toxicity

CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 114

TRT#: 21

SEX: Female

DAY ON TEST: 15

DOSE: 30.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Liver

* Spleen

* Thymus

PRESENT BUT NOT EXAMINED

* Brain

* Heart

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Kidney

* Lung

* Ovary

* Stomach, Forestomach

* Stomach, Glandular

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

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ANIMAL ID: 115

TRT#: 21

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DISP: Terminal Sacrifice

HISTO: 115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Lab: MBA

ANIMAL ID: 116

TRT#: 22

SEX: Female

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Ovary
* Stomach, Forestomach	* Stomach, Glandular		

OBSERVATIONS

* Liver	Depletion Glycogen	Minimal
* Spleen	Depletion Cellular	Mild
* Thymus	Atrophy	Moderate
	Necrosis	Mild
Uterus	Sarcoma Stromal	

[Sarcoma Stromal TGLs = 1-7]

Experiment Number: 05049 - 03

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Species/Strain: RATS/HSD

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

Lab: MBA

ANIMAL ID: 117

TRT#: 22

SEX: Female

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Ovary
* Stomach, Forestomach	* Stomach, Glandular		

OBSERVATIONS

* Liver	Depletion Glycogen	Minimal
* Spleen	Depletion Cellular	Minimal
* Thymus	Atrophy	Mild
	Necrosis	Mild

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

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

Lab: MBA

ANIMAL ID: 118

TRT#: 22

SEX: Female

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Lung	* Ovary	* Stomach, Forestomach
* Stomach, Glandular			

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Liver	Depletion Glycogen	Minimal
* Spleen	Depletion Cellular	Minimal
* Thymus	Atrophy	Mild
	Necrosis	Mild

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Lab: MBA

ANIMAL ID: 119

TRT#: 22

SEX: Female

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-----------------------------|--------------------------|----------------------------|
| * Brain | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney | * Lung | * Ovary | * Stomach, Forestomach |
| * Stomach, Glandular | | | |

OBSERVATIONS

- | | | |
|---------------------------|--------------------|---------|
| * Heart | Cardiomyopathy | Minimal |
| * Liver | Congestion | Mild |
| | Depletion Glycogen | Minimal |
| [Congestion TGLs = 1-3] | | |
| * Spleen | Depletion Cellular | Minimal |
| * Thymus | Atrophy | Mild |
| | Necrosis | Mild |

Experiment Number: 05049 - 03

Test Type: 14-DAY

Route: DOSED WATER

Species/Strain: RATS/HSD

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Date Report Requested: 04/24/2020

Time Report Requested: 12:07:24

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

Lab: MBA

ANIMAL ID: 120

TRT#: 22

SEX: Female

DAY ON TEST: 15

DOSE: 100.0 mg/ml Emim

DISP: Terminal Sacrifice

HISTO: 120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Lung	* Ovary
* Stomach, Forestomach	* Stomach, Glandular		

OBSERVATIONS

* Liver	Depletion Glycogen	Minimal
* Spleen	Depletion Cellular	Minimal
* Thymus	Atrophy	Mild
	Necrosis	Mild

*** END OF REPORT ***