

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

F1_M3

C Number: C20307
Lock Date: 12/28/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.2.1_003
PWG Approval Date: NONE

TDMS No. 20307 - 04

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Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 1

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Eye |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Oral Mucosa | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Esophagus

OBSERVATIONS

- * Parathyroid Gland
 - * Skin
- Cyst

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 2

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Pancreas |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 3

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 4

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 5

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Skin, Site Of Application |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 6

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Oral Mucosa | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Tongue | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

- * Skin
- Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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Date Report Requested: 07/27/2011

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First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 7

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Skin, Site Of Application |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 8

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 10

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 12

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 12

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 13

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 13

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 14

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 14

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Epididymis | * Esophagus | * Eye |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | |
|---------|-------------------------------|
| * Brain | Granular Cell Tumor Malignant |
| * Skin | |

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 15

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 15

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

MISSING

- * Mammary Gland

OBSERVATIONS

- * Kidney Inflammation Chronic, Minimal
- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 16

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 16

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Skin, Site Of Application |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 17

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 17

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| Skeletal Muscle | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- * Parathyroid Gland
- * Skin

Cyst

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 18

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 18

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Tongue | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- * Skin
Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 19

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 19

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Oral Mucosa | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | |
|---------------------|--------------|------------------|
| * Harderian Gland | Inflammation | Neutrophil, Mild |
| * Parathyroid Gland | Cyst | |
| * Skin | | |

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 20

TRT#: 2

SEX: Male

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 20

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

MISSING

- * Mammary Gland

OBSERVATIONS

- * Blood Vessel
 - Note: Tissue identified on slide 20/4.
- * Harderian Gland
 - Inflammation
 - Neutrophil, Minimal
- * Skin
 - Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 21

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 21

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 22

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 22

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 23

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 23

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/14/06 / 12/15/06

Species/Strain: MICE/B6C3F1

Lab: MBA

ANIMAL ID: 24

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 24

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Inflammation

Minimal

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 25

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 25

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 26

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 26

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

* Skin, Site Of Application

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 27

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 27

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Fibrosis
Hyperplasia
Hyperplasia
Inflammation

Mild
Mild
Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 28

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 28

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Inflammation

Minimal

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 29

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 29

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 30

TRT#: 3

SEX: Male

DAY ON TEST: 92

DOSE: 6.25%

DISP: Terminal Sacrifice

HISTO: 30

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Fibrosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Mild
Minimal
Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 31

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 31

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

* Skin

Spleen

OBSERVATIONS

Liver

Centrilobular

Hypertrophy

Minimal

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 32

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 32

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 33

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 33

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Mild

Control, Hair Follicle

Hyperplasia

Mild

Control

Inflammation

Chronic Active, Mild

* Skin, Site of Application

Fibrosis

Mild

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 34

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 34

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 35

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 35

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Inflammation

Minimal

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 36

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 36

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

* Skin

Spleen

OBSERVATIONS

Liver

Centrilobular

Hypertrophy

Minimal

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 37

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 37

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Inflammation

Minimal

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 38

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 38

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 39

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 39

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia

Inflammation

Minimal

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 40

TRT#: 4

SEX: Male

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 40

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 41

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 41

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 42

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 42

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Minimal

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

Note: (cont.) of mature fibrous connective tissue.

Note: The diagnosis reflects the presence of increased numbers of Fibroblasts in the superficial dermis (i.e. Fibroplasia) and does not indicate the presence (cont.)

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 43

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 43

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 44

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 44

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Spleen

OBSERVATIONS

Liver

Centrilobular

Hypertrophy

Minimal

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Note: (cont.) of mature fibrous connective tissue.

Note: The diagnosis reflects the presence of increased numbers of Fibroblasts in the superficial dermis (i.e. Fibroplasia) and does not indicate the presence (cont.)

TDMS No. 20307 - 04

Test Type: 90-DAY

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

Route: SKIN APPLICATION

CAS Number: 54464-57-2

First Dose M/F: 12/14/06 / 12/15/06

Species/Strain: MICE/B6C3F1

Lab: MBA

ANIMAL ID: 45

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 45

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

INSUFFICIENT TISSUE

Liver

* Skin

Spleen

OBSERVATIONS

Liver

Note: Poor histologic processing precluded evaluation of the tissue.

* Skin

Note: Skin, Control is Insufficient tissue.

Note: POOR HISTOLOGIC PROCESSING PRECLUDED EVALUATION OF THE TISSUE.

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

Spleen

Note: Poor histologic processing precluded evaluation of the tissue.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 46

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 46

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 47

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 47

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

* Skin, Site Of Application

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 48

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 48

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Moderate

Epidermis

Inflammation

Suppurative, Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 49

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 49

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Spleen

OBSERVATIONS

Liver

Centrilobular

Hypertrophy

Mild

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Mild

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 50

TRT#: 5

SEX: Male

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 50

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Spleen

OBSERVATIONS

Liver

Centrilobular

Hypertrophy

Minimal

* Skin

Control

Fibrosis

Minimal

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Moderate

Hair Follicle

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 51

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 51

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Note: (cont.) of mature fibrous connective tissue.

Note: The diagnosis reflects the presence of increased numbers of Fibroblasts in the superficial dermis (i.e. Fibroplasia) and does not indicate the presence (cont.)

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 52

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 52

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis

Minimal

Hyperplasia

Moderate

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 53

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 53

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 54

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 54

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

* Skin	Control	Fibrosis	Mild
	Control	Hyperkeratosis	Mild
	Control	Hyperplasia	Moderate
	Control	Inflammation	Chronic Active, Mild
	Control, Epidermis	Inflammation	Suppurative, Mild
* Skin, Site of Application		Fibrosis	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Moderate
	Hair Follicle	Hyperplasia	Mild
	Epidermis	Inflammation	Suppurative, Mild
		Inflammation	Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 55

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 55

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 56

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 56

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Moderate

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 57

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 57

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Minimal

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Note: (cont.) of mature fibrous connective tissue.

Note: The diagnosis reflects the presence of increased numbers of fibroblasts in the superficial dermis (i.e. fibroplasia) and does not indicate the presence (cont.)

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 58

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 58

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

* Skin

Spleen

INSUFFICIENT TISSUE

* Skin, Site Of Application

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, SOA

Note: Poor histologic processing precluded evaluation of the Skin, SOA tissue.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 59

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 59

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

* Skin

Control

Fibrosis

Minimal

Control

Hyperkeratosis

Mild

Control

Hyperplasia

Mild

Control, Hair Follicle

Hyperplasia

Mild

Control

Inflammation

Chronic Active, Mild

Note: THE DIAGNOSIS REFLECTS THE PRESENCE OF INCREASED NUMBERS OF FIBROPLASTS IN THE SUPERFICIAL DERMIS (I.E., FIBROPLASIA) AND DOES NOT INDICATE THE PRESENCE OF

Note: MATURE FIBROUS CONNECTIVE TISSUE.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Note: (cont.) of mature fibrous connective tissue.

Note: The diagnosis reflects the presence of increased numbers of Fibroblasts in the superficial dermis (i.e. Fibroplasia) and does not indicate the presence (cont.)

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 60

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 60

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

Spleen

OBSERVATIONS

- * Skin
- * Skin, Site of Application

Control

Hyperplasia
 Fibrosis
 Hyperplasia
 Inflammation

Minimal
 Minimal
 Mild
 Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 61

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 61

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Mild |
| | Hair Follicle | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |
| | Epidermis | Inflammation | Suppurative, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 62

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 62

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

MISSING

- * Mammary Gland

INSUFFICIENT TISSUE

- * Esophagus

OBSERVATIONS

* Skin	Control	Fibrosis	Mild
	Control	Hyperkeratosis	Mild
	Control	Hyperplasia	Moderate
	Control, Hair Follicle	Hyperplasia	Mild
	Control	Inflammation	Chronic Active, Mild
	Control, Epidermis	Inflammation	Suppurative, Minimal
* Skin, Site of Application		Fibrosis	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Moderate
	Hair Follicle	Hyperplasia	Mild
	Epidermis	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Mild

[Hyperplasia TGLs = 1-12]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 63

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 63

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Skin
 - Control Hyperkeratosis Minimal
 - Control Hyperplasia Mild
 - Control, Hair Follicle Hyperplasia Minimal
 - Control Inflammation Chronic Active, Mild
 - Control, Epidermis Inflammation Suppurative, Minimal
- * Skin, Site of Application
 - Fibrosis Mild
 - Hyperkeratosis Mild
 - Hyperplasia Moderate
 - Hair Follicle Hyperplasia Minimal
 - Inflammation Chronic Active, Mild
 - Epidermis Inflammation Suppurative, Minimal

[Hyperplasia TGLs = 1-12]

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 64

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 64

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|-------------------------|
| * Skin | Control | Hyperkeratosis | Minimal |
| | Control | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Minimal |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 65

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 65

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Tongue | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperplasia | Mild |
| | Control, Hair Follicle | Hyperplasia | Mild |
| | Control, Epidermis | Inflammation | Suppurative, Minimal |
| | Control | Inflammation | Chronic Active, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 66

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 66

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose | * Oral Mucosa |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------|----------------|----------------------|
| * Harderian Gland | | Inflammation | Neutrophil, Minimal |
| * Liver | Centrilobular | Hypertrophy | Moderate |
| * Skin | Control | Fibrosis | Mild |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Moderate |
| | Control, Hair Follicle | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Mild |
| | Epidermis | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic Active, Mild |

[Hyperplasia TGLs = 1-12]

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 67

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 67

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|----------------------|
| * Liver | Centrilobular | Hypertrophy | Minimal |
| * Skin | Control | Inflammation | Neutrophil, Minimal |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 68

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 68

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Epididymis
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mesenteric
- * Nose
- * Oral Mucosa
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Testes
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder

MISSING

- * Lymph Node, Mandibular
- * Mammary Gland

OBSERVATIONS

- * Skin
 - Control Hyperplasia Mild
 - Control, Hair Follicle Hyperplasia Minimal
 - Control Inflammation Chronic Active, Mild
 - Control, Epidermis Inflammation Suppurative, Minimal
- * Skin, Site of Application
 - Fibrosis Mild
 - Hyperkeratosis Minimal
 - Hyperplasia Moderate
 - Hair Follicle Hyperplasia Mild
 - Inflammation Chronic Active, Mild

[Hyperplasia TGLs = 1-12]

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 69

TRT#: 7

SEX: Male

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|-------------------------|
| * Liver | Centrilobular | Hypertrophy | Mild |
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Minimal |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 71

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 71

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 72

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 72

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- * Vagina

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 73

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 73

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 74

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 74

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- * Vagina

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 75

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 75

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 76

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 76

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 77

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 77

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Uterus | Vagina | |

MISSING

- * Urinary Bladder

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 78

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 78

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 79

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 79

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Ovary | * Pancreas |
| * Pituitary Gland | * Salivary Glands | * Skin | * Skin, Site Of Application |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

MISSING

- | | |
|------------------|---------------------|
| * Clitoral Gland | * Parathyroid Gland |
|------------------|---------------------|

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 80

TRT#: 9

SEX: Female

DAY ON TEST: 92

DOSE: untreated

DISP: Terminal Sacrifice

HISTO: 80

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 81

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 82

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 82

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- * Vagina

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 83

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 83

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- Vagina

MISSING

- * Clitoral Gland
- * Parathyroid Gland

OBSERVATIONS

- * Skin
 - Note: Skin, Control is Normal.
 - * Skin, Site of Application
 - Note: Pustule formation
 - [Ulcer TGLs = 1-12]
- Ulcer
- Marked

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 84

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 84

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|-----------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Kidney | * Larynx | * Liver | * Lung |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Oral Mucosa | * Ovary | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Skin, Site Of Application | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Tongue | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

MISSING

- | | | |
|------------------|-------------|---------------------|
| * Clitoral Gland | Gallbladder | * Parathyroid Gland |
|------------------|-------------|---------------------|

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 85

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 85

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | |
|----------|-------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Skin | | |

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 86

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 86

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 87

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 87

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Pituitary Gland | * Salivary Glands | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 88

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 88

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|-----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Skin, Site Of Application | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 89

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 89

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Pituitary Gland
- * Salivary Glands
- * Skin
- * Skin, Site Of Application
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- * Vagina

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 90

TRT#: 10

SEX: Female

DAY ON TEST: 92

DOSE: vehicle

DISP: Terminal Sacrifice

HISTO: 90

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Skin, Site Of Application | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

MISSING

- * Clitoral Gland

OBSERVATIONS

- * Skin

Note: Skin, Control is Normal.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 91

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 91

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Mild
Mild
Moderate
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 92

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 92

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

* Skin, Site of Application

Control
Control

Hyperplasia
Inflammation
Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Chronic Active, Minimal
Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 93

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 93

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperplasia
Inflammation

Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 94

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 94

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Mild
Minimal
Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 95

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 95

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Mild
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 96

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 96

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 97

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 97

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Hyperplasia
Hyperplasia
Inflammation

Mild
Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 98

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 98

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

Note: Skin, non SOA, ventral alopecia, NCL, TGL 1-18

* Skin, Site of Application

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 99

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 99

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 100

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 6.25 %

DISP: Terminal Sacrifice

HISTO: 100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin	Control	Hyperplasia	Minimal
	Control	Inflammation	Chronic Active, Mild
* Skin, Site of Application		Fibrosis	Minimal
		Hyperplasia	Mild
		Inflammation	Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 101

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperplasia
Inflammation

Minimal
Minimal
Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 102

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

* Skin

Spleen

Thymus

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Mild

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 103

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

Spleen

Thymus

OBSERVATIONS

* Skin

Control

Fibrosis

Minimal

Control

Hyperplasia

Mild

Control

Inflammation

Chronic Active, Mild

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 104

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

Spleen

Thymus

OBSERVATIONS

- * Skin
- * Skin, Site of Application

Control

Inflammation

Chronic Active, Minimal

Fibrosis

Minimal

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Epidermis

Inflammation

Suppurative, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 105

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Fibrosis

Minimal

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Fibrosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 106

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control
Control
Control
Control

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation
Fibrosis
Hyperplasia
Inflammation

Mild
Minimal
Mild
Chronic Active, Mild
Mild
Mild
Chronic Active, Mild

* Skin, Site of Application

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 107

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 108

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 109

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperplasia
Inflammation

Minimal
Minimal
Chronic Active, Minimal

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 110

TRT#: 12

SEX: Female

DAY ON TEST: 92

DOSE: 12.5 %

DISP: Terminal Sacrifice

HISTO: 110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Moderate
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 111

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle
Epidermis

Fibrosis
Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation
Inflammation

Mild
Mild
Mild
Mild
Suppurative, Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 112

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Fibrosis
Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Mild
Mild
Mild
Moderate
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 113

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle
Epidermis

Fibrosis
Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation
Inflammation

Mild
Moderate
Mild
Moderate
Suppurative, Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 114

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle
Epidermis

Fibrosis
Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation
Inflammation

Minimal
Mild
Mild
Moderate
Suppurative, Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 115

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Mild

* Skin, Site of Application

Fibrosis

Mild

Hyperkeratosis

Minimal

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 116

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control
Control, Hair Follicle
Control

Hyperplasia
Hyperplasia
Inflammation
Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Minimal
Chronic Active, Minimal
Mild
Mild
Mild
Chronic Active, Mild

* Skin, Site of Application

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 117

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Mild
Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 118

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

* Skin

Spleen

Thymus

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Mild

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 119

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Epidermis

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation
Inflammation

Mild
Minimal
Mild
Suppurative, Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 120

TRT#: 13

SEX: Female

DAY ON TEST: 92

DOSE: 25 %

DISP: Terminal Sacrifice

HISTO: 120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Fibrosis
Hyperkeratosis
Hyperplasia
Inflammation

Minimal
Minimal
Mild
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 121

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Liver

INSUFFICIENT TISSUE

Heart

* Skin

* Skin, Site Of Application

Spleen

Thymus

Animal Note: Poor histologic processing precluded evaluation of the tissues marked "Insufficient".

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 122

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart

Liver

* Skin

INSUFFICIENT TISSUE

* Skin, Site Of Application

Thymus

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

Animal Note: Poor histologic processing precluded evaluation of the tissues marked "Insufficient".

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 123

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

* Skin

Spleen

Thymus

INSUFFICIENT TISSUE

* Skin, Site Of Application

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, SOA

Note: Poor histologic processing precluded evaluation of the tissue.

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 124

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Heart

Liver

Thymus

INSUFFICIENT TISSUE

* Skin

* Skin, Site Of Application

Spleen

OBSERVATIONS

* Skin

Note: Skin, Control is Insufficient.

Animal Note: Poor histologic processing precluded evaluation of the tissues marked "Insufficient".

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 125

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin	Control	Hyperplasia	Minimal
	Control	Inflammation	Chronic Active, Minimal
* Skin, Site of Application		Hyperkeratosis	Mild
		Hyperplasia	Moderate
	Epidermis	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 126

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Epidermis

Hyperkeratosis
Hyperplasia
Inflammation
Inflammation

Minimal
Moderate
Suppurative, Minimal
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 127

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Mild

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Mild

Hyperplasia

Mild

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 128

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

Hair Follicle

Fibrosis
Hyperkeratosis
Hyperplasia
Hyperplasia
Inflammation

Minimal
Mild
Mild
Moderate
Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 129

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Thymus

Heart

Liver

Spleen

OBSERVATIONS

* Skin

Control

Hyperplasia

Minimal

Control

Inflammation

Chronic Active, Minimal

* Skin, Site of Application

Fibrosis

Minimal

Hyperkeratosis

Mild

Hyperplasia

Mild

Hair Follicle

Hyperplasia

Minimal

Epidermis

Inflammation

Suppurative, Minimal

Inflammation

Chronic Active, Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 130

TRT#: 14

SEX: Female

DAY ON TEST: 92

DOSE: 50 %

DISP: Terminal Sacrifice

HISTO: 130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow
Spleen

Heart
Thymus

Liver

* Skin

OBSERVATIONS

* Skin

Note: Skin, Control is Normal.

* Skin, Site of Application

	Fibrosis	Mild
	Hyperkeratosis	Mild
	Hyperplasia	Mild
Hair Follicle	Hyperplasia	Mild
	Inflammation	Chronic Active, Mild
Epidermis	Inflammation	Suppurative, Mild
	Ulcer	Mild

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 131

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Larynx | * Liver |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Oral Mucosa | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

OBSERVATIONS

- | | | | |
|-----------------------------|-----------------------------|----------------|----------------------|
| * Eye | Retrobulbar | Inflammation | Neutrophil, Minimal |
| * Skin | Control | Fibrosis | Mild |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Moderate |
| | Control | Inflammation | Chronic Active, Mild |
| | Control, Epidermis | Inflammation | Suppurative, Minimal |
| * Skin, Site of Application | | Fibrosis | Moderate |
| | | Hyperkeratosis | Moderate |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |
| | Epidermis | Inflammation | Suppurative, Minimal |
| | [Hyperplasia TGLs = 1-12] | | |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 132

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Adrenal Medulla
- * Blood Vessel
- * Bone
- * Bone Marrow
- * Brain
- * Clitoral Gland
- * Esophagus
- * Eye
- Gallbladder
- * Harderian Gland
- * Heart
- * Intestine Large, Cecum
- * Intestine Large, Colon
- * Intestine Large, Rectum
- * Intestine Small, Duodenum
- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Kidney
- * Larynx
- * Liver
- * Lung
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Nose
- * Oral Mucosa
- * Ovary
- * Pancreas
- * Pituitary Gland
- * Salivary Glands
- * Spleen
- * Stomach, Forestomach
- * Stomach, Glandular
- * Thymus
- * Thyroid Gland
- * Tongue
- * Trachea
- * Urinary Bladder
- * Uterus
- Vagina

OBSERVATIONS

- * Parathyroid Gland
 - * Skin
 - * Skin, Site of Application
- | | | | |
|--|--------------------|----------------|-------------------------|
| | Control | Cyst | Minimal |
| | Control | Hyperplasia | Chronic Active, Minimal |
| | Control, Epidermis | Inflammation | Suppurative, Minimal |
| | | Inflammation | Mild |
| | | Fibrosis | Mild |
| | | Hyperkeratosis | Moderate |
| | Hair Follicle | Hyperplasia | Minimal |
| | Epidermis | Hyperplasia | Suppurative, Minimal |
| | | Inflammation | Chronic Active, Mild |
| | | Inflammation | |

[Hyperplasia TGLs = 1-12]

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 133

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | Lymph Node | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Oral Mucosa |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Tongue | * Trachea |
| * Urinary Bladder | * Uterus | Vagina | |

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------|----------------|----------------------|
| * Skin | Control | Hyperkeratosis | Minimal |
| | Control | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Mild |
| | Control, Epidermis | Inflammation | Suppurative, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 134

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Mild |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Moderate |
| | Control | Inflammation | Chronic Active, Mild |
| | Control, Epidermis | Inflammation | Suppurative, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Moderate |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Mild |
| | Epidermis | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic Active, Mild |

[Hyperplasia TGLs = 1-12]

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 135

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 135

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Mild |
| | Control, Hair Follicle | Hyperplasia | Minimal |
| | Control, Epidermis | Inflammation | Suppurative, Mild |
| | Control | Inflammation | Chronic Active, Mild |
| * Skin, Site of Application | | Fibrosis | Minimal |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Mild |

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 136

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 136

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

MISSING

- * Parathyroid Gland

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|----------------------|
| * Skin | Control | Hyperplasia | Minimal |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Minimal |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Moderate |
| | Epidermis | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 137

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 137

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Mild |
| | Control, Hair Follicle | Hyperplasia | Mild |
| | Control | Inflammation | Chronic Active, Mild |
| | Control, Epidermis | Inflammation | Suppurative, Mild |
| * Skin, Site of Application | | Hyperkeratosis | Mild |
| | | Hyperplasia | Mild |
| | Hair Follicle | Hyperplasia | Mild |
| | Epidermis | Inflammation | Suppurative, Mild |
| | | Inflammation | Chronic Active, Mild |

[Hyperplasia TGLs = 1-12]

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 138

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 138

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|----------------|----------------------|
| * Skin | Control | Hyperplasia | Minimal |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Mild |
| | Hair Follicle | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 139

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Pituitary Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Tongue |
| * Trachea | * Urinary Bladder | * Uterus | Vagina |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------------------|-----------------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Minimal |
| | Control | Hyperkeratosis | Mild |
| | Control | Hyperplasia | Moderate |
| | Control, Epidermis | Inflammation | Suppurative, Minimal |
| | Control | Inflammation | Chronic Active, Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Mild |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Moderate |
| | Epidermis | Inflammation | Suppurative, Minimal |
| | | Inflammation | Chronic Active, Mild |
| | [Hyperplasia TGLs = 1-12] | | |
| * Thymus | | Atrophy | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 20307 - 04

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:17:04

First Dose M/F: 12/14/06 / 12/15/06

Lab: MBA

ANIMAL ID: 140

TRT#: 15

SEX: Female

DAY ON TEST: 92

DOSE: 100 %

DISP: Terminal Sacrifice

HISTO: 140

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Larynx |
| * Liver | * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Oral Mucosa | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Tongue | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

OBSERVATIONS

- | | | | |
|-----------------------------|------------------------|----------------|----------------------|
| * Skin | Control | Fibrosis | Mild |
| | Control | Hyperkeratosis | Moderate |
| | Control | Hyperplasia | Moderate |
| | Control, Hair Follicle | Hyperplasia | Moderate |
| | Control | Inflammation | Chronic Active, Mild |
| | Control, Epidermis | Inflammation | Suppurative, Mild |
| | Control | Ulcer | Mild |
| * Skin, Site of Application | | Fibrosis | Mild |
| | | Hyperkeratosis | Moderate |
| | | Hyperplasia | Moderate |
| | Hair Follicle | Hyperplasia | Moderate |
| | | Inflammation | Chronic Active, Mild |
| | Epidermis | Inflammation | Suppurative, Minimal |

*** END OF REPORT ***