

**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

<b>C Number:</b>	C20516
<b>Lock Date:</b>	05/16/2007
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1 <b>DOSE:</b> 0 mg/m3	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 95 <b>HISTO:</b> 55814
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Gallbladder	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55815

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * 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 | * Islets, Pancreatic      | * Kidney                    | * Larynx                 |
| * Liver                    | * Lung                    | * Lymph Node, Bronchial     | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal  | * Lymph Node, Mesenteric  | * Nose                      | * Pancreas               |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         |                             |                          |

**MISSING**

- \* Mammary Gland

**INSUFFICIENT TISSUE**

- \* Parathyroid Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1 <b>DOSE:</b> 0 mg/m3	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 95 <b>HISTO:</b> 55816
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

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**MISSING**

* Lymph Node, Mandibular	* Mammary Gland
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**OBSERVATIONS**

* Skin	Inflammation	Chronic Active, Mild
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55817

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Cyst	Moderate
	Nephropathy	Minimal

[ Cyst TGLS = 1-6 ]

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55818

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Epididymis  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Mammary Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55819

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Nose  
\* Preputial Gland  
\* Skin  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Epididymis  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Pancreas  
\* Prostate  
\* Spleen  
\* Thymus

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Bronchial  
\* Parathyroid Gland  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

\* Mammary Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55820

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mediastinal	* Mammary Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1 <b>DOSE:</b> 0 mg/m3	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 95 <b>HISTO:</b> 55821
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55822

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Bronchial	* Mammary Gland
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 55823

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Liver
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lung
- \* Nose
- \* Prostate
- \* Spleen
- \* Thymus

- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Larynx
- \* Lymph Node, Mediastinal
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

**MISSING**

\* Lymph Node, Bronchial

\* Mammary Gland

\* Parathyroid Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 201

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55914

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lung

Trachea

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**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 202

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55915

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 203

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55916

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Trachea

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**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
Lung	Perivascular	Inflammation	Chronic Active, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55917

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55918

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 206

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55919

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55920

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 208

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55921

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55922

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55923

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 401

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55894

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 402

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55895

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55896

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55897

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55898

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 406

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55899

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 407

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55900

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 408

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55901

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 410

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55903

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 601

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55874

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Perivascular	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55876

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

\* Lung

Trachea

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**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55877

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE





Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 100 mg/m3

DISP: Terminal Sacrifice

HISTO: 55880

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Perivascular	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Mild Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

---

<b>ANIMAL ID:</b> 608	<b>TRT#:</b> 7	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 95
	<b>DOSE:</b> 100 mg/m3	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 55881

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Lung	Trachea
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia	Minimal
		Metaplasia	Squamous, Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE







Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 801

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55854

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 802

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 803

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55856

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55857

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 805

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55858

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55859

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 807

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55860

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 808

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55861

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 809

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55862

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 810

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55834

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Moderate Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55835

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	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland	
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OBSERVATIONS

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1003

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55836

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55837

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Gallbladder	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1005

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55838

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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**INSUFFICIENT TISSUE**

\* Gallbladder

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1006

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55839

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Epididymis
- \* Harderian Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Preputial Gland
- \* Skin
- \* Testes
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Pancreas
- \* Prostate
- \* Spleen
- \* Thymus

- \* Bone Marrow
- \* Eye
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Liver
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Brain
- \* Gallbladder
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Bronchial
- \* Pituitary Gland
- \* Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

**MISSING**

\* Adrenal Medulla

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

\* Mammary Gland

**OBSERVATIONS**

- \* Larynx
- \* Lung
  
  
  
- \* Nose

- Bronchiole
- Arteriole
  
  
  
- Perivascular
- Olfactory Epi
- Respirat Epith

- Metaplasia
- Hyperplasia
- Hypertrophy
- Infiltration Cellular
- Inflammation
- Accumulation, Hyaline Droplet
- Accumulation, Hyaline Droplet

- Squamous, Marked
- Mild
- Mild
- Histiocyte, Mild
- Chronic Active, Mild
- Mild
- Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1007

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55840

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mediastinal	* Mammary Gland
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**INSUFFICIENT TISSUE**

* Pituitary Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55841

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1009

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55842

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild
* Pancreas		Necrosis	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55843

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Mild Mild
* Testes		Hypoplasia	Moderate

[ Hypoplasia TGLS = 1-8 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 101

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55824

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* 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

\* Islets, Pancreatic

\* Kidney

\* Larynx

\* Liver

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

\* Lymph Node, Mesenteric

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Pituitary Gland

\* Salivary Glands

\* Skin

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

\* Uterus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 102

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55825

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

\* Adrenal Medulla  
\* Clitoral Gland  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Bronchial  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

**MISSING**

\* Lymph Node, Mediastinal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 103

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55826

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

* Clitoral Gland	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Parathyroid Gland			

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 104

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55827

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Adrenal Medulla  
\* Clitoral Gland  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

**MISSING**

\* Lymph Node, Bronchial

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 55828

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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**OBSERVATIONS**

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 106

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55829

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Brain

\* Gallbladder

\* Intestine Large, Colon

\* Intestine Small, Jejunum

\* Liver

\* Lymph Node, Mediastinal

\* Ovary

\* Skin

\* Thymus

\* Uterus

\* Adrenal Medulla

\* Clitoral Gland

\* Harderian Gland

\* Intestine Large, Rectum

\* Islets, Pancreatic

\* Lung

\* Lymph Node, Mesenteric

\* Pancreas

\* Spleen

\* Thyroid Gland

\* Bone

\* Esophagus

\* Heart

\* Intestine Small, Duodenum

\* Kidney

\* Lymph Node, Bronchial

\* Mammary Gland

\* Pituitary Gland

\* Stomach, Forestomach

\* Trachea

\* Bone Marrow

\* Eye

\* Intestine Large, Cecum

\* Intestine Small, Ileum

\* Larynx

\* Lymph Node, Mandibular

\* Nose

\* Salivary Glands

\* Stomach, Glandular

\* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55830

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Adrenal Medulla  
\* Clitoral Gland  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Mandibular  
\* Ovary  
\* Skin  
\* Thymus  
\* Uterus

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

**MISSING**

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Parathyroid Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55831

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Bronchial  
\* Ovary  
\* Skin  
\* Thymus  
\* Uterus

\* Bone  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

**MISSING**

\* Clitoral Gland

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

\* Parathyroid Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55832

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Gallbladder  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Liver  
\* Mammary Gland  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

\* Adrenal Medulla  
\* Clitoral Gland  
\* Harderian Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lung  
\* Nose  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Lymph Node, Bronchial  
\* Ovary  
\* Skin  
\* Thymus  
\* Uterus

\* Bone Marrow  
\* Eye  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Larynx  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Spleen  
\* Thyroid Gland

**MISSING**

\* Lymph Node, Mandibular

\* Lymph Node, Mediastinal

\* Parathyroid Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 110

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55833

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55924

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 302	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 96
	<b>DOSE:</b> 25 mg/m3	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 55925

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung	Trachea
------	---------

---

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55926

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55927

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Moderate

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55928

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55929

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Moderate

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55930

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55931

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Moderate

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55932

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 310	<b>TRT#:</b> 4 <b>DOSE:</b> 25 mg/m3	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 96 <b>HISTO:</b> 55933
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lung	Trachea
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---

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55904

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 502

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55905

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 503

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55906

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 505

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55908

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 506

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55909

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 507

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55910

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55911

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55912

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Trachea

---

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Lung	Arteriole	Hypertrophy	Moderate
	Perivascular	Inflammation	Chronic Active, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

















**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 707	<b>TRT#:</b> 8 <b>DOSE:</b> 100 mg/m3	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 96 <b>HISTO:</b> 55890
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Lung	Trachea
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Minimal Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Metal working fluids (Trim SC210)  
**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014  
**Time Report Requested:** 23:41:11  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 708	<b>TRT#:</b> 8 <b>DOSE:</b> 100 mg/m3	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 96 <b>HISTO:</b> 55891
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Lung	Trachea
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Minimal Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 710

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55893

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Trachea

---

**OBSERVATIONS**

\* Larynx

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55864

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55865

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Perivascular	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 903

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55866

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Perivascular	Inflammation	Chronic Active, Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55867

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Minimal Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 905

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55868

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Trachea

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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Minimal Mild

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Perivascular	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 908

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Eye

Liver

Trachea

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

Metaplasia

Squamous, Marked

\* Lung

Infiltration Cellular

Histiocyte, Minimal

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Ovary

Cyst

Moderate

[ Cyst TGLS = 2-8 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 200 mg/m3

DISP: Terminal Sacrifice

HISTO: 55872

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Perivascular	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 910

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55873

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

Trachea

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

Metaplasia

Squamous, Marked

\* Lung

Infiltration Cellular

Histiocyte, Minimal

Perivascular

Inflammation

Chronic Active, Minimal

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Mild

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1101

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55844

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 1102

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55845

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Lung	Bronchiole	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
	Perivascular	Inflammation	Chronic Active, Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55846

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mandibular

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55847

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55848

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Moderate Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20516-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Metal working fluids (Trim SC210)

**CAS Number:** TRIMSC210

**Date Report Requested:** 10/21/2014

**Time Report Requested:** 23:41:11

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 1106

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55849

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Larynx		Metaplasia	Squamous, Marked
* Lung	Bronchiole	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Mild
	Perivascular	Inflammation	Chronic Active, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Moderate
	Respirat Epith	Accumulation, Hyaline Droplet	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55850

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Lymph Node, Mesenteric

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Moderate Mild Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55851

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Mild Moderate Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55852

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia Metaplasia	Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Moderate Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 20516-02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Metal working fluids (Trim SC210)

CAS Number: TRIMSC210

Date Report Requested: 10/21/2014

Time Report Requested: 23:41:11

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 55853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* 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	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Larynx	Squam Epithel	Hyperplasia Inflammation Metaplasia	Minimal Chronic Active, Minimal Squamous, Marked
* Lung	Bronchiole	Hyperplasia Infiltration Cellular	Mild Histiocyte, Minimal
* Nose	Perivascular Olfactory Epi Respirat Epith	Inflammation Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Chronic Active, Minimal Mild Mild

PRIMARY CAUSE OF DEATH

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\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE