

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**NTP Study Number:** C20519  
**Lock Date:** 06/09/2009  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59313

**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	* 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

Nephropathy

Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59314

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* 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**

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59315

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* 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		

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**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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Experiment Number: 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016

Time Report Requested: 14:35:40

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 59316

**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
* 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		

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59317

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* 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		

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**MISSING**

* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59318

**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	* 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**

* Gallbladder	* Mammary Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59319

**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
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* 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
* Urinary Bladder			

**MISSING**

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

* Trachea	Inflammation	Chronic, Minimal
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 8

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59320

**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	* 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**

* Gallbladder	Mineralization	Mild
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59321

**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
* 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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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59322

**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
* 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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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 201

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59413

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Lung

Nose

Trachea

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**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
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**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 202

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59414

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 203

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59415

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
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**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59416

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59417

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Minimal

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 206

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59418

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59419

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 208

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59420

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59421

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59422

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 401

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59393

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Moderate

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 402

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59394

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59395

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59396

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59397

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 406

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59398

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 407

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59399

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 408

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59400

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 409

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59401

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 410

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59402

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Moderate

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 601

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59373

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Moderate

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 602

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59374

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59375

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59376

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 605

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59377

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

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

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 606

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59378

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 607

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59379

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 608

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59380

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Spleen

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 609

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59381

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 610

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59382

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

---

**INSUFFICIENT TISSUE**

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Moderate

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 801

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59353

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Pituitary Gland

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Marked

\* Nose

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 802

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59354

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 803

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59355

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Erosion	Focal, Mild
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 804

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59356

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

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

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 805

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59357

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia  
Ulcer

Chronic Active, Mild  
Squamous, Marked  
Focal, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 806

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59358

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Trachea

---

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Lung	Bronchiole, Goblet Cell	Hyperplasia	Moderate
	Perivascular	Inflammation	Chronic Active, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 807

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59359

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia  
Ulcer

Chronic Active, Mild  
Squamous, Marked  
Focal, Mild

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 808

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59360

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Erosion	Focal, Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 809

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59361

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

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

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 810

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59362

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Trachea

Inflammation

Chronic, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1001

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59333

**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	* Liver	* Lung
* Lymph Node, Bronchial	* 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**

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

**OBSERVATIONS**

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

Experiment Number: 20519 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Metal working fluids (Syntilo 1023)  
CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016  
Time Report Requested: 14:35:40  
First Dose M/F: 11/03/08 / 11/03/08  
Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 59334

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	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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

\* Mammary Gland

OBSERVATIONS

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1003

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59335

**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	* Lung	* 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		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

Experiment Number: 20519 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Metal working fluids (Syntilo 1023)  
CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016  
Time Report Requested: 14:35:40  
First Dose M/F: 11/03/08 / 11/03/08  
Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 59336

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

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20519 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Metal working fluids (Syntilo 1023)  
 CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016  
 Time Report Requested: 14:35:40  
 First Dose M/F: 11/03/08 / 11/03/08  
 Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 59337

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	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Cortex	Infarct	Focal
		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Lung	Bronchiole, Goblet Cell	Hyperplasia	Moderate
	Arteriole	Hypertrophy	Minimal
		Infiltration Cellular	Histiocyte, Mild
	Perivascular	Inflammation	Chronic Active, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1006

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59338

**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
* Lung	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland			

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1007

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59339

**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      | * Liver                     | * Lung                   |
| * 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**

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

**OBSERVATIONS**

- |               |                |                               |                          |
|---------------|----------------|-------------------------------|--------------------------|
| * Gallbladder |                | Inflammation                  | Neutrophil, Minimal      |
| * Kidney      |                | Casts                         | Minimal                  |
|               |                | Nephropathy                   | Minimal                  |
| * Larynx      |                | Inflammation                  | Chronic Active, Moderate |
|               |                | Metaplasia                    | Squamous, Marked         |
|               |                | Ulcer                         | Focal, Moderate          |
| * Nose        | Respirat Epith | Accumulation, Hyaline Droplet | Minimal                  |
|               | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal                  |

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1008

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59340

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

* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1009

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59341

**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	* Lung	* 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		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1010

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59342

**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
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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**

* Gallbladder	* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 101

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59323

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Bronchial	* Mammary Gland
* Nose	* 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	* Lymph Node, Mesenteric	* Parathyroid Gland
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**OBSERVATIONS**

* Larynx	Metaplasia	Squamous, Minimal
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Experiment Number: 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016

Time Report Requested: 14:35:40

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 59324

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* 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	

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 103

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59325

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* 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, Mandibular	* Parathyroid Gland
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Experiment Number: 20519 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Metal working fluids (Syntilo 1023)  
CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016  
Time Report Requested: 14:35:40  
First Dose M/F: 11/03/08 / 11/03/08  
Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 59326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* 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, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

\* Intestine Large, Rectum

OBSERVATIONS

* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 105

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59327

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* 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**

* Lymph Node, Mediastinal	* Parathyroid Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 106

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59328

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* 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**

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

* Kidney	Nephropathy	Minimal
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59329

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* Lymph Node, Mandibular	* 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

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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**INSUFFICIENT TISSUE**

\* Larynx

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59330

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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

**MISSING**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Gallbladder	Inflammation	Neutrophil, Minimal
* Liver	Necrosis	Focal, Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59331

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* 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, Mediastinal	* Parathyroid Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 110

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 59332

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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**

* Adrenal Medulla	* Clitoral Gland	* Lymph Node, Mediastinal	* Parathyroid Gland
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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59423

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Minimal

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59424

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59425

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59426

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59427

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59428

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59429

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59430

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59431

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**INSUFFICIENT TISSUE**

\* Larynx

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59432

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Lung

Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Minimal

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59403

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 502

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59404

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Moderate

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 503

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59405

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 504

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59406

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 505

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59407

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 506

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59408

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Erosion  
Inflammation  
Metaplasia

Focal, Minimal  
Chronic Active, Minimal  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 507

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59409

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Erosion  
Inflammation  
Metaplasia

Focal, Minimal  
Chronic Active, Mild  
Squamous, Mild

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59410

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59411

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 510

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59412

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 701

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59383

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 702

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59384

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 703

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59385

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Erosion	Focal, Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 704

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59386

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

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

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 705

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

\* Larynx

Erosion

Focal, Minimal

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Marked

\* Lung

Bronchiole, Goblet Cell

Hyperplasia

Mild

Arteriole

Hypertrophy

Mild

Perivascular

Inflammation

Chronic Active, Mild

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Mild



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 706

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59388

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Erosion	Focal, Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 707

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59389

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

---

**INSUFFICIENT TISSUE**

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation

Chronic Active, Mild

Metaplasia

Squamous, Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 708

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59390

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 709

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59391

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Minimal  
Squamous, Moderate

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 710

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59392

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 901

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59363

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 902

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59364

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Nose

Trachea

---

**OBSERVATIONS**

\* Larynx

Inflammation  
Metaplasia

Chronic Active, Mild  
Squamous, Marked

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 903

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59365

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Trachea

---

**OBSERVATIONS**

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

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 904

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Trachea

**OBSERVATIONS**

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

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

---

**ANIMAL ID:** 905

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59367

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung Trachea

---

**OBSERVATIONS**

* Larynx		Erosion	Focal, Minimal
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

---

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 906

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59368

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Lung Trachea

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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

---



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 908

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59370

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Lung Trachea

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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 909

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59371

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Lung Trachea

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

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**ANIMAL ID:** 910

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59372

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Lung Trachea

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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

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**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1101

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59343

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* 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	* Lymph Node, Mediastinal
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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Lung	Bronchiole, Goblet Cell	Hyperplasia	Marked
	Arteriole	Hypertrophy	Mild
		Infiltration Cellular	Histiocyte, Moderate
	Perivascular	Inflammation	Chronic Active, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal



**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1102

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59344

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* 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		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Lung	Bronchiole, Goblet Cell	Hyperplasia	Mild
	Arteriole	Hypertrophy	Mild
		Infiltration Cellular	Histiocyte, Mild
	Perivascular	Inflammation	Chronic Active, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1103

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59345

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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
* Lung	* 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**

* Gallbladder	* Lymph Node, Mediastinal
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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1104

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59346

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                            |                           |                             |
|---------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Bone Marrow             | * Brain                    | * Clitoral Gland          | * Esophagus                 |
| * Eye                     | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum  | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum  | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Liver                   | * Lung                     | * 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 |                | Inflammation                  | Chronic Active, Mild |
|          |                | Metaplasia                    | Squamous, Marked     |
| * Nose   | Respirat Epith | Accumulation, Hyaline Droplet | Marked               |
|          | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal              |

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1105

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59347

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
* Parathyroid Gland		Cyst	Multiple

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1106

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59348

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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, Mediastinal	* Parathyroid Gland
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**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Larynx	Inflammation	Chronic Active, Mild
	Metaplasia	Squamous, Marked
	Ulcer	Focal, Moderate
* Nose	Respirat Epith	Mild
	Accumulation, Hyaline Droplet	

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1107

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59349

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * 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                  |
| * Lung                     | * Lymph Node, Bronchial   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Ovary                   | * Parathyroid Gland         | * Pituitary Gland        |
| * Salivary Glands          | * Skin                    | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             | * Trachea                |
| * Urinary Bladder          | * Uterus                  |                             |                          |

**MISSING**

- |               |                           |
|---------------|---------------------------|
| * Gallbladder | * Lymph Node, Mediastinal |
|---------------|---------------------------|

**OBSERVATIONS**

- |            |                |                               |                         |
|------------|----------------|-------------------------------|-------------------------|
| * Larynx   |                | Inflammation                  | Chronic Active, Mild    |
|            |                | Metaplasia                    | Squamous, Marked        |
| * Nose     | Respirat Epith | Accumulation, Hyaline Droplet | Moderate                |
|            | Olfactory Epi  | Accumulation, Hyaline Droplet | Minimal                 |
| * Pancreas | Periductular   | Inflammation                  | Chronic, Focal, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1108

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lung	* 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		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Moderate
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

**Experiment Number:** 20519 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Metal working fluids (Syntilo 1023)  
**CAS Number:** SYNTILO1023

**Date Report Requested:** 07/18/2016  
**Time Report Requested:** 14:35:40  
**First Dose M/F:** 11/03/08 / 11/03/08  
**Lab:** BNW

**ANIMAL ID:** 1109

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 59351

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* 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	* Lymph Node, Mediastinal
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**OBSERVATIONS**

* Larynx		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Minimal
* Lung	Bronchiole, Goblet Cell	Hyperplasia	Moderate
	Arteriole	Hypertrophy	Mild
		Infiltration Cellular	Histiocyte, Moderate
	Perivascular	Inflammation	Chronic Active, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild



Experiment Number: 20519 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Metal working fluids (Syntilo 1023)  
CAS Number: SYNTILO1023

Date Report Requested: 07/18/2016  
Time Report Requested: 14:35:40  
First Dose M/F: 11/03/08 / 11/03/08  
Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 400 mg/m3

DISP: Terminal Sacrifice

HISTO: 59352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* 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

* Larynx		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Marked
		Ulcer	Focal, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Marked
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

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