

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

**NTP Study Number:** C20534  
**Lock Date:** 07/19/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** vehicle control

**DISP:** Terminal Sacrifice

**HISTO:** 55188

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx  
\* Trachea

\* Lung

\* Lymph Node, Bronchial

\* Nose

---

**MISSING**

\* Lymph Node, Mediastinal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 2

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** vehicle control

**DISP:** Terminal Sacrifice

**HISTO:** 55189

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx  
\* Trachea

\* Lung

\* Lymph Node, Mediastinal

\* Nose

---

**MISSING**

\* Lymph Node, Bronchial

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** vehicle control

**DISP:** Terminal Sacrifice

**HISTO:** 55190

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Nose

\* Trachea

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** vehicle control

**DISP:** Terminal Sacrifice

**HISTO:** 55191

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx

\* Lung

\* Lymph Node, Bronchial

\* Trachea

---

**MISSING**

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Nose

Goblet Cell

Hypertrophy

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** vehicle control

**DISP:** Terminal Sacrifice

**HISTO:** 55192

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Nose

\* Trachea

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 201

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 3 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55203

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLs = 1-6 ]

\* Nose

Goblet Cell

Hypertrophy

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 202

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 3 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55204

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx  
\* Trachea

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Nose

Goblet Cell

Hypertrophy

Minimal

---



**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 203

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 3 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55205

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx

\* Lung

\* Lymph Node, Mediastinal

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Nose

Goblet Cell

Hypertrophy

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 204

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 3 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55206

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Nose

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Inflammation

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 3 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55207

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Larynx

\* Lung

\* Lymph Node, Mediastinal

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 401

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 15 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55198

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Trachea

---

**MISSING**

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Mild

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 402

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 15 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55199

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 15 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55200

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Mediastinal

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Minimal

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 15 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55201

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Mediastinal

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Mild

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 15 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55202

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Mild

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---



**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 601

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 30 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55193

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Mild

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 602

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 30 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55194

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 30 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55195

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Trachea

---

**MISSING**

\* Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 30 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55196

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Bronchial

\* Lymph Node, Mediastinal

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

**Experiment Number:** 20534 - 01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F344/N Tac

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Abrasive blasting agents (crushed glass)  
**CAS Number:** CRUSHEDGLASS

**Date Report Requested:** 04/05/2018  
**Time Report Requested:** 14:36:02  
**First Dose M/F:** 06/12/06 / NA  
**Lab:** BNW

---

**ANIMAL ID:** 605

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 16

**DOSE:** 30 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 55197

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

\* Lymph Node, Mediastinal

\* Trachea

---

**MISSING**

\* Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Larynx

Epiglottis

Hyperplasia

Minimal

Epiglottis

Inflammation

Minimal

Epiglottis

Metaplasia

Squamous, Minimal

\* Nose

Goblet Cell

Hypertrophy

Mild

---

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