

**Experiment Number:** 60311 - 02  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Cobalt  
**CAS Number:** 7440-48-4

**Date Report Requested:** 09/13/2016  
**Time Report Requested:** 14:38:57  
**First Dose M/F:** 08/02/04 / 08/02/04  
**Lab:** BNW

**NTP Study Number:** C60311  
**Lock Date:** 11/29/2005  
**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

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 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

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 Cobalt  
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Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>CONTROL</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

Liver + + + + + 5

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Thyroid Gland + M + + M 3

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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Species/Strain: MICE/B6C3F1

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First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>CONTROL</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		1	2	3	4	5
<hr/>						
<b>* TOTALS</b>						

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>
Nose	+	+	+	+	+	<b>5</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	<b>5</b>
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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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 Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>2.5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		2	2	2	2	2
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Spleen +

1

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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 + .. Tissue examined microscopically  
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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
		7	7	7	7	7	
<b>2.5 MG/M3</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		0	0	0	0	0	
		1	2	3	4	5	

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	5	
Alveolus, Infiltration Cellular, Histiocyte	1			1			2 1.0
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1		1	1		4 1.0
Nose	+	+	+	+	+	5	
Olfactory Epithelium, Atrophy	1	1	1	1	1		5 1.0
Olfactory Epithelium, Necrosis			1	1			2 1.0
Respiratory Epithelium, Vacuolization Cytoplasmic		1	1	1	1		4 1.0

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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 + .. Tissue examined microscopically  
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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		4	4	4	4	4
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		4	4	4	4	4
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>		
Alveolar/bronchiolar Epithelium, Karyomegaly	1	1	1	1			<b>4</b>	<b>1.0</b>
Alveolus, Infiltration Cellular, Histiocyte	1	1	1	1	1		<b>5</b>	<b>1.0</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1			1		<b>3</b>	<b>1.0</b>
<hr/>								
Nose	+	+	+	+	+	<b>5</b>		
Inflammation, Acute		1					<b>1</b>	<b>1.0</b>
Olfactory Epithelium, Atrophy	1	1	1	1	1		<b>5</b>	<b>1.0</b>
Olfactory Epithelium, Necrosis	1	1		1			<b>3</b>	<b>1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1	1		<b>5</b>	<b>1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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 Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>10 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		6	6	6	6	6
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Spleen	+	1
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**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
		0	0	0	0	0	
<b>10 MG/M3</b>	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		6	6	6	6	6	
		0	0	0	0	0	
		1	2	3	4	5	

\* TOTALS

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5		
Alveolar/bronchiolar Epithelium, Karyomegaly	1	1	1	1	1		5	1.0
Alveolus, Infiltration Cellular, Histiocyte	2	1	2	1	1		5	1.4
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1	2	2	2		5	1.6
Interstitialium, Fibrosis	1	1			1		3	1.0
Nose	+	+	+	+	+	5		
Inflammation, Acute	3	2	2	2	3		5	2.4
Olfactory Epithelium, Atrophy	2	2	2	2	1		5	1.8
Respiratory Epithelium, Metaplasia, Squamous		1	1	1	1		4	1.0
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1			4	1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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+ .. Tissue examined microscopically M .. Missing tissue  
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 Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>20 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		8	8	8	8	8
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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 + .. Tissue examined microscopically  
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First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>20 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		8	8	8	8	8
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Alveolar/bronchiolar Epithelium, Karyomegaly	2	1	2	2	2		<b>5 1.8</b>
Alveolus, Infiltration Cellular, Histiocyte	3	3	2	2	2		<b>5 2.4</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1			1	1		<b>3 1.0</b>
Interstitialium, Fibrosis	3	2	2	2	2		<b>5 2.2</b>
<hr/>							
Nose	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	1	2	2	2	1		<b>5 1.6</b>
Olfactory Epithelium, Atrophy	2	2	1	2	2		<b>5 1.8</b>
Olfactory Epithelium, Necrosis	1	1	1	2	1		<b>5 1.2</b>
Respiratory Epithelium, Metaplasia, Squamous	1	1	1		1		<b>4 1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	2	1	1		<b>5 1.2</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		0	1	0	1	0
		5	7	5	7	8
		<hr/>				
<b>40 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		1	1	1	1	1
		0	0	0	0	0
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**ALIMENTARY SYSTEM**

Liver + + + + +

5

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Thyroid Gland + + + + +

5

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

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 + .. Tissue examined microscopically M .. Missing tissue  
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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		0	1	0	1	0
		5	7	5	7	8
		<hr/>				
<b>40 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		1	1	1	1	1
		0	0	0	0	0
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	2		1		2		<b>3 1.7</b>
Alveolar/bronchiolar Epithelium, Karyomegaly		2	1	2	1		<b>4 1.5</b>
Alveolus, Infiltration Cellular, Histiocyte	2	3	1	3	1		<b>5 2.0</b>
Bronchiole, Epithelium, Necrosis	1						<b>1 1.0</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic		1		2	1		<b>3 1.3</b>
Interstitial, Fibrosis		3		4	1		<b>3 2.7</b>
<hr/>							
Nose	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	1	2	2	3	1		<b>5 1.8</b>
Olfactory Epithelium, Atrophy		2	2	3	1		<b>4 2.0</b>
Olfactory Epithelium, Necrosis	2	2	1	1	1		<b>5 1.4</b>
Respiratory Epithelium, Metaplasia, Squamous		1		1			<b>2 1.0</b>
Respiratory Epithelium, Necrosis		1		1			<b>2 1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	2	1	1	1		<b>5 1.2</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	<b>5</b>
--------	---	---	---	---	---	----------

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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**Lab:** BNW

---

\*\*\* END OF MALE DATA \*\*\*

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+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
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1) Minimal 3) Moderate  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Cobalt  
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>CONTROL</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**ALIMENTARY SYSTEM**

Liver + + + + +

5

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Thyroid Gland + + + + +

5

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue  
 X .. Lesion present A .. Autolysis precludes evaluation  
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Cobalt  
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>CONTROL</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		0	0	0	0	0
		1	2	3	4	5

**\* TOTALS**

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>
Nose	+	+	+	+	+	<b>5</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	<b>5</b>
--------	---	---	---	---	---	----------

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>2.5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		3	3	3	3	3
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Ovary + 1

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue  
 X .. Lesion present A .. Autolysis precludes evaluation  
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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Date Report Requested: 09/13/2016  
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 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>2.5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		3	3	3	3	3
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Alveolar/bronchiolar Epithelium, Karyomegaly	1		1	1			<b>3 1.0</b>
Alveolus, Infiltration Cellular, Histiocyte		1			1		<b>2 1.0</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic		1			1		<b>2 1.0</b>
<hr/>							
Nose	+	+	+	+	+	<b>5</b>	
Olfactory Epithelium, Atrophy	2	1	2	1	1		<b>5 1.4</b>
Olfactory Epithelium, Necrosis			1	1	1		<b>3 1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1	1		<b>5 1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		5	5	5	5	5
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>5 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		5	5	5	5	5
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Inflammation, Acute		1	1				<b>2 1.0</b>
Alveolar/bronchiolar Epithelium, Karyomegaly	1	1		1	1		<b>4 1.0</b>
Alveolus, Infiltration Cellular, Histiocyte	1	2	1	2	1		<b>5 1.4</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1	1		1		<b>4 1.0</b>
<hr/>							
Nose	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	2	2	2	2	2		<b>5 2.0</b>
Olfactory Epithelium, Atrophy	1	1	2	2	2		<b>5 1.6</b>
Olfactory Epithelium, Necrosis	1	1	1	1	1		<b>5 1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1	1		<b>5 1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Cobalt  
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>10 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		7	7	7	7	7
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 14:38:57

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>10 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		7	7	7	7	7
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Inflammation, Acute				1			<b>1 1.0</b>
Alveolar/bronchiolar Epithelium, Karyomegaly	1	1	1	2	1		<b>5 1.2</b>
Alveolus, Infiltration Cellular, Histiocyte	2	1	1	2	2		<b>5 1.6</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic		2	1	2			<b>3 1.7</b>
Interstitialium, Fibrosis			1	1			<b>2 1.0</b>
Nose	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	3	3	2	2	3		<b>5 2.6</b>
Olfactory Epithelium, Atrophy	2	2	2	1	2		<b>5 1.8</b>
Olfactory Epithelium, Necrosis	2				1		<b>2 1.5</b>
Respiratory Epithelium, Metaplasia, Squamous					1		<b>1 1.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	2	1	1	1		<b>5 1.2</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Cobalt  
 CAS Number: 7440-48-4

Date Report Requested: 09/13/2016  
 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
<b>20 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		9	9	9	9	9
		0	0	0	0	0
		1	2	3	4	5
					<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

NONE

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

NONE

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 14:38:57

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
		<hr/>				
<b>20 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		9	9	9	9	9
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	5		
Inflammation, Acute		1	1		1		3	1.0
Alveolar/bronchiolar Epithelium, Karyomegaly	1		2	1	1		4	1.3
Alveolus, Infiltration Cellular, Histiocyte	3	3	3	2	2		5	2.6
Bronchiole, Epithelium, Vacuolization Cytoplasmic	1	1					2	1.0
Interstitialium, Fibrosis	3	2	4	3	2		5	2.8
Nose	+	+	+	+	+	5		
Inflammation, Acute	3	2	2	2	3		5	2.4
Olfactory Epithelium, Atrophy	3	2	2	2	2		5	2.2
Olfactory Epithelium, Necrosis	3	1		1	1		4	1.5
Respiratory Epithelium, Metaplasia, Squamous		1	1		1		3	1.0
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1			4	1.0

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



Experiment Number: 60311 - 02  
 Test Type: 14-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Cobalt  
 CAS Number: 7440-48-4

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 Time Report Requested: 14:38:57  
 First Dose M/F: 08/02/04 / 08/02/04  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		0	1	1	0	0
		6	7	7	9	7
		<hr/>				
<b>40 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		1	1	1	1	1
		1	1	1	1	1
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**ALIMENTARY SYSTEM**

Liver + + + + +

5

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Thyroid Gland + + + + +

5

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Spleen +

1

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue  
 X .. Lesion present A .. Autolysis precludes evaluation  
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Time Report Requested: 14:38:57

First Dose M/F: 08/02/04 / 08/02/04

Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		0	1	1	0	0
		6	7	7	9	7
		<hr/>				
<b>40 MG/M3</b>	ANIMAL ID	0	0	0	0	0
		1	1	1	1	1
		1	1	1	1	1
		0	0	0	0	0
		1	2	3	4	5

\* TOTALS

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	2		1				<b>2 1.5</b>
Alveolar/bronchiolar Epithelium, Karyomegaly		1	1	1	1		<b>4 1.0</b>
Alveolus, Infiltration Cellular, Histiocyte	1	3	3	2	3		<b>5 2.4</b>
Bronchiole, Epithelium, Vacuolization Cytoplasmic		1					<b>1 1.0</b>
Interstitialium, Fibrosis		4	3				<b>2 3.5</b>
<hr/>							
Nose	+	+	+	+	+	<b>5</b>	
Inflammation, Acute	2	3	3	1	2		<b>5 2.2</b>
Olfactory Epithelium, Atrophy	2	2	2				<b>3 2.0</b>
Olfactory Epithelium, Necrosis	3	1		1			<b>3 1.7</b>
Respiratory Epithelium, Metaplasia, Squamous			1				<b>1 1.0</b>
Respiratory Epithelium, Necrosis	2						<b>1 2.0</b>
Respiratory Epithelium, Vacuolization Cytoplasmic	1	1	1	1			<b>4 1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	<b>5</b>
--------	---	---	---	---	---	----------

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 60311 - 02  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Cobalt  
**CAS Number:** 7440-48-4

**Date Report Requested:** 09/13/2016  
**Time Report Requested:** 14:38:57  
**First Dose M/F:** 08/02/04 / 08/02/04  
**Lab:** BNW

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

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\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked