

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

MISSING

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

MISSING

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 201	TRT#: 3	SEX: Male	DAY ON TEST: 17
	DOSE: 2.5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52564
OBSERVATIONS			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52565

OBSERVATIONS

* Lung

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Minimal

* Nose

Olfactory Epi

Atrophy

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

Spleen

OBSERVATIONS

* Nose

Olfactory Epi

Atrophy

Minimal

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52567

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52568

OBSERVATIONS

* Lung

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Minimal

* Nose

Olfactory Epi

Atrophy

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 401	TRT#: 5	SEX: Male	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52554
OBSERVATIONS			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 17

DOSE: 5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52555

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Minimal

* Nose

Olfactory Epi

Atrophy

Minimal

Inflammation

Acute, Minimal

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 403	TRT#: 5	SEX: Male	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52556
OBSERVATIONS			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 17

DOSE: 5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52557

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Atrophy

Minimal

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 17

DOSE: 5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52558

OBSERVATIONS

* Lung

Alveolus
Bronchiole, Epithelium

Infiltration Cellular
Vacuolization Cytoplasmic

Histiocyte, Minimal
Minimal

* Nose

Olfactory Epi
Respirat Epith

Atrophy
Vacuolization Cytoplasmic

Minimal
Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Spleen

OBSERVATIONS

* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Moderate
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 602	TRT#: 7	SEX: Male	DAY ON TEST: 17
	DOSE: 10 MG/M3	DISP: Terminal Sacrifice	HISTO: 52545
OBSERVATIONS			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52546

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Mild
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52547

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Mild

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Mild

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52548

OBSERVATIONS

* Lung

Interstitialium

Fibrosis

Minimal

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Mild

* Nose

Olfactory Epi

Atrophy

Minimal

Inflammation

Acute, Moderate

Respirat Epith

Metaplasia

Squamous, Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 801

TRT#: 9

SEX: Male

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52534

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alv/Bron Epith	Karyomegaly	Mild
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 802	TRT#: 9	SEX: Male	DAY ON TEST: 17
	DOSE: 20 MG/M3	DISP: Terminal Sacrifice	HISTO: 52535
OBSERVATIONS			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alv/Bron Epith	Karyomegaly	Minimal
	[Infiltration Cellular TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 803	TRT#: 9	SEX: Male	DAY ON TEST: 17
	DOSE: 20 MG/M3	DISP: Terminal Sacrifice	HISTO: 52536
OBSERVATIONS			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Mild
	[Infiltration Cellular TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Mild

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52537

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Mild
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Olfactory Epi	Necrosis	Mild
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 805

TRT#: 9

SEX: Male

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52538

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Mild
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 5

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Mild

Inflammation

Acute, Mild

Bronchiole, Epithelium

Necrosis

Minimal

[Infiltration Cellular TGLs = 1-1]

* Nose

Olfactory Epi

Inflammation

Acute, Minimal

Necrosis

Mild

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 17

DOSE: 40 MG/M3

DISP: Terminal Sacrifice

HISTO: 52525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Interstitialium
Alveolus
Alv/Bron Epith
Bronchiole, Epithelium

Fibrosis
Infiltration Cellular
Karyomegaly
Vacuolization Cytoplasmic

Moderate
Histiocyte, Moderate
Mild
Minimal

[Infiltration Cellular TGLs = 1-1]

* Nose

Olfactory Epi

Respirat Epith
Olfactory Epi
Respirat Epith
Respirat Epith

Atrophy
Inflammation
Metaplasia
Necrosis
Necrosis
Vacuolization Cytoplasmic

Mild
Acute, Mild
Squamous, Minimal
Mild
Minimal
Mild

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 5

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Acute, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Mild

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 17

DOSE: 40 MG/M3

DISP: Terminal Sacrifice

HISTO: 52527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Interstitialium

Fibrosis

Marked

Alveolus

Infiltration Cellular

Histiocyte, Moderate

Alv/Bron Epith

Karyomegaly

Mild

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Mild

[Infiltration Cellular TGLs = 1-1]

* Nose

Olfactory Epi

Atrophy

Moderate

Inflammation

Acute, Moderate

Respirat Epith

Metaplasia

Squamous, Minimal

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 8

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Interstitialium

Fibrosis

Minimal

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Acute, Mild

Alv/Bron Epith

Karyomegaly

Minimal

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Minimal

* Nose

Olfactory Epi

Atrophy

Minimal

Inflammation

Acute, Minimal

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 17

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 52523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Lung

* Nose

* Thyroid Gland

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52569

OBSERVATIONS

* Lung

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Atrophy

Mild

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52570

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Ovary

OBSERVATIONS

* Lung	Alv/Bron Epith	Karyomegaly	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 304	TRT#: 4	SEX: Female	DAY ON TEST: 17
	DOSE: 2.5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52572
OBSERVATIONS			
* Lung	Alv/Bron Epith	Karyomegaly	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 17

DOSE: 2.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52573

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 501	TRT#: 6	SEX: Female	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52559

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 502	TRT#: 6	SEX: Female	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52560

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Acute, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy Inflammation	Minimal Acute, Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 503	TRT#: 6	SEX: Female	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52561
OBSERVATIONS			
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Minimal Acute, Minimal
* Nose	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
	Olfactory Epi	Atrophy Inflammation	Mild Acute, Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 17

DOSE: 5 MG/M3

DISP: Terminal Sacrifice

HISTO: 52562

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Mild

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Mild

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 505	TRT#: 6	SEX: Female	DAY ON TEST: 17
	DOSE: 5 MG/M3	DISP: Terminal Sacrifice	HISTO: 52563

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52549

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Mild

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Moderate

Olfactory Epi

Necrosis

Mild

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 702	TRT#: 8	SEX: Female	DAY ON TEST: 17
	DOSE: 10 MG/M3	DISP: Terminal Sacrifice	HISTO: 52550
OBSERVATIONS			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Mild
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Moderate
	Respirat Epith	Vacuolization Cytoplasmic	Mild

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 703	TRT#: 8	SEX: Female	DAY ON TEST: 17
	DOSE: 10 MG/M3	DISP: Terminal Sacrifice	HISTO: 52551
OBSERVATIONS			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 704	TRT#: 8	SEX: Female	DAY ON TEST: 17
	DOSE: 10 MG/M3	DISP: Terminal Sacrifice	HISTO: 52552
OBSERVATIONS			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Acute, Minimal
	Alv/Bron Epith	Karyomegaly	Mild
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Mild
* Nose	Olfactory Epi	Atrophy	Minimal
		Inflammation	Acute, Mild
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 17

DOSE: 10 MG/M3

DISP: Terminal Sacrifice

HISTO: 52553

OBSERVATIONS

* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52539

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alv/Bron Epith	Karyomegaly	Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Moderate
		Inflammation	Acute, Moderate
	Olfactory Epi	Necrosis	Moderate
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52540

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Acute, Minimal
	Bronchiole, Epithelium	Vacuolization Cytoplasmic	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 903	TRT#: 10	SEX: Female	DAY ON TEST: 17
	DOSE: 20 MG/M3	DISP: Terminal Sacrifice	HISTO: 52541
OBSERVATIONS			
* Lung	Interstitialium Alveolus	Fibrosis Infiltration Cellular Inflammation Karyomegaly	Marked Histiocyte, Moderate Acute, Minimal Mild
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi Respirat Epith Respirat Epith	Atrophy Inflammation Metaplasia Vacuolization Cytoplasmic	Mild Acute, Mild Squamous, Minimal Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52542

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alv/Bron Epith	Karyomegaly	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Mild
	Olfactory Epi	Necrosis	Minimal
	Respirat Epith	Vacuolization Cytoplasmic	Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 905

TRT#: 10

SEX: Female

DAY ON TEST: 17

DOSE: 20 MG/M3

DISP: Terminal Sacrifice

HISTO: 52543

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Acute, Minimal
	Alv/Bron Epith	Karyomegaly	Minimal
[Infiltration Cellular	TGLs = 1-1]		
* Nose	Olfactory Epi	Atrophy	Mild
		Inflammation	Acute, Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Necrosis	Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 6

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Minimal

Inflammation

Acute, Mild

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Mild

Olfactory Epi

Necrosis

Moderate

Respirat Epith

Necrosis

Mild

Respirat Epith

Vacuolization Cytoplasmic

Minimal

Experiment Number: 60311 - 02

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

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

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 17

DOSE: 40 MG/M3

DISP: Terminal Sacrifice

HISTO: 52530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

Spleen

* Thyroid Gland

OBSERVATIONS

* Lung

Interstitialium

Fibrosis

Marked

Alveolus

Infiltration Cellular

Histiocyte, Moderate

Alv/Bron Epith

Karyomegaly

Minimal

Bronchiole, Epithelium

Vacuolization Cytoplasmic

Minimal

[Infiltration Cellular TGLs = 2,3-1]

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Moderate

Olfactory Epi

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 17

DOSE: 40 MG/M3

DISP: Terminal Sacrifice

HISTO: 52531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Interstitialium

Fibrosis

Moderate

Alveolus

Infiltration Cellular

Histiocyte, Moderate

Inflammation

Acute, Minimal

Alv/Bron Epith

Karyomegaly

Minimal

[Infiltration Cellular TGLs = 1-1]

* Nose

Olfactory Epi

Atrophy

Mild

Inflammation

Acute, Moderate

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 9

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Mild

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Olfactory Epi

Inflammation

Acute, Minimal

Respirat Epith

Necrosis

Minimal

Respirat Epith

Vacuolization Cytoplasmic

Minimal

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

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 7

DOSE: 40 MG/M3

DISP: Natural Death

HISTO: 52533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Kidney

* Liver

* Thyroid Gland

OBSERVATIONS

* Lung

Alveolus

Infiltration Cellular

Histiocyte, Moderate

Alv/Bron Epith

Karyomegaly

Minimal

* Nose

Inflammation

Acute, Mild

*** END OF REPORT ***