

Experiment Number: 60311 - 01

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/13/2016

Time Report Requested: 11:25:32

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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FISCHER 344 RATS MALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
Disposition Summary						
Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Moribund Sacrifice					1	
Natural Death					4	5
Survivors						
Terminal Sacrifice	5	5	5	5		
Animals Examined Microscopically	5	5	5	5	5	5
ALIMENTARY SYSTEM						
Liver	(5)	(0)	(0)	(0)	(5)	(5)
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
Thyroid Gland	(5)	(0)	(0)	(0)	(5)	(5)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Testes	(0)	(0)	(0)	(0)	(0)	(1)
HEMATOPOIETIC SYSTEM						
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)

a - Number of animals examined microscopically at site and number of animals with lesion

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FISCHER 344 RATS MALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
Lymph Node, Bronchial	(0)	(0)	(0)	(0)	(0)	(1)
Lymph Node, Mediastinal	(2)	(0)	(0)	(2)	(0)	(0)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

Brain	(5)	(0)	(0)	(5)	(5)	(5)
Hemorrhage						1 (20%)

RESPIRATORY SYSTEM

Lung	(5)	(5)	(5)	(5)	(5)	(5)
Hemorrhage				1 (20%)	5 (100%)	5 (100%)
Inflammation, Acute					4 (80%)	5 (100%)
Alveolar Epithelium, Hyperplasia					3 (60%)	5 (100%)
Alveolus, Infiltration Cellular, Histiocyte			4 (80%)	3 (60%)	5 (100%)	5 (100%)
Bronchiole, Epithelium, Necrosis					2 (40%)	3 (60%)
Bronchiole, Epithelium, Vacuolization Cytoplasmic		5 (100%)	5 (100%)	5 (100%)	1 (20%)	
Interstitial, Fibrosis				5 (100%)	2 (40%)	
Nose	(5)	(5)	(5)	(5)	(5)	(5)
Foreign Body				1 (20%)		
Inflammation, Acute		1 (20%)		1 (20%)		
Olfactory Epithelium, Atrophy		5 (100%)	5 (100%)	5 (100%)	3 (60%)	3 (60%)
Olfactory Epithelium, Necrosis		3 (60%)	4 (80%)	4 (80%)	4 (80%)	5 (100%)
Respiratory Epithelium, Metaplasia, Squamous				1 (20%)	2 (40%)	1 (20%)
Respiratory Epithelium, Necrosis				1 (20%)	3 (60%)	5 (100%)

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FISCHER 344 RATS MALE

CONTROL

2.5 MG/M3

5 MG/M3

10 MG/M3

20 MG/M3

40 MG/M3

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

Kidney	(5)	(0)	(0)	(0)	(5)	(5)
Urinary Bladder	(5)	(0)	(0)	(5)	(5)	(5)
Muscularis, Serosa, Edema					1 (20%)	

*** END OF MALE ***

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FISCHER 344 RATS FEMALE	CONTROL	2.5 MG/M3	5 MG/M3	10 MG/M3	20 MG/M3	40 MG/M3
Disposition Summary						
Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Natural Death					3	5
Survivors						
Terminal Sacrifice	5	5	5	5	2	
Animals Examined Microscopically	5	5	5	5	5	5
ALIMENTARY SYSTEM						
Liver	(5)	(0)	(0)	(0)	(5)	(5)
CARDIOVASCULAR SYSTEM						
None						
ENDOCRINE SYSTEM						
Thyroid Gland	(5)	(0)	(0)	(0)	(5)	(4)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
None						
HEMATOPOIETIC SYSTEM						
Lymph Node	(0)	(0)	(1)	(0)	(0)	(0)

a - Number of animals examined microscopically at site and number of animals with lesion

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INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
Brain Hemorrhage	(5)	(0)	(0)	(5)	(5) 2 (40%)	(5) 2 (40%)
RESPIRATORY SYSTEM						
Lung Hemorrhage	(5)	(5)	(5)	(5)	(5) 3 (60%)	(5) 5 (100%)
Lung Inflammation, Acute					2 (40%)	5 (100%)
Lung Alveolar Epithelium, Hyperplasia					2 (40%)	2 (40%)
Lung Alveolus, Infiltration Cellular, Histiocyte					5 (100%)	5 (100%)
Lung Bronchiole, Epithelium, Necrosis		1 (20%)	1 (20%)	4 (80%)	3 (60%)	3 (60%)
Lung Bronchiole, Epithelium, Vacuolization Cytoplasmic		4 (80%)	5 (100%)	5 (100%)	3 (60%)	
Lung Interstitium, Fibrosis				4 (80%)	3 (60%)	
Nose Foreign Body	(5)	(5)	(5)	(5)	(5) 1 (20%)	(5)
Nose Inflammation, Acute						1 (20%)
Nose Olfactory Epithelium, Atrophy		5 (100%)	5 (100%)	5 (100%)	4 (80%)	1 (20%)
Nose Olfactory Epithelium, Metaplasia, Squamous					1 (20%)	1 (20%)
Nose Olfactory Epithelium, Necrosis		5 (100%)	3 (60%)	5 (100%)	5 (100%)	5 (100%)
Nose Respiratory Epithelium, Atrophy			1 (20%)	2 (40%)	1 (20%)	
Nose Respiratory Epithelium, Metaplasia, Squamous					1 (20%)	
Nose Respiratory Epithelium, Necrosis					5 (100%)	5 (100%)
Trachea	(0)	(0)	(0)	(0)	(0)	(2)

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<hr/>						
SPECIAL SENSES SYSTEM						
None						
<hr/>						
URINARY SYSTEM						
Kidney	(5)	(0)	(0)	(0)	(5)	(5)
Urinary Bladder	(0)	(0)	(0)	(0)	(0)	(2)

*** END OF REPORT ***

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