

Experiment Number: 05083-01
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:32:40

First Dose M/F: NA / NA

Lab: NORTHROP

C Number:	C55470B
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	NONE

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F 344/N Rat Male CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
		7	7	7	7	7	7	6	6	9	1	2	3	4	5	6	6	8	8	0	0	0	1	1	2	3	3	5	5	7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1	2	2	4	4	7	5	0	7	3	3	2	2	6	1	7	7	5	2	4	6	3	7	1	0	5	7	5	6	6
	0	5	9	3	5	1	9	4	4	2	4	3	6	5	2	0	4	2	2	4	2	8	5	8	2	3	6	5	7	

Alimentary System

Esophagus	M	M	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	A	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bile Duct, Carcinoma																															
Fibrous Histiocytoma, Metastatic, Skin																															
Hepatocellular Adenoma																															
Hepatocyte, Adenoma																															
Mesentery																															
Pancreas	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinar Cell, Adenoma																															
Salivary Glands	M	+	+	M	M	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	+	+	+	M	+	+		
Carcinoma, Metastatic, Zymbal'S Gland																															
Fibrous Histiocytoma, Metastatic, Skin																															
Stomach																															
Stomach, Forestomach	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	A	+	+	+	+	+	M	+	+	+	+	+	A	A	+	+	+	+	+	+	+	+	

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X ..Lesion present
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Lab: NORTHROP

F 344/N Rat Male CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
		3	3	3	3	3	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6							
		7	7	7	7	7	7	6	6	9	1	2	3	4	5	6	6	8	8	8	0	0	0	1	1	2	3	3	5	5	7	7			
		3	3	3	3	3	4	6	6	6	6	6	4	9	1	5	8	2	6	0	0	0	0	4	5	4	3	5	3	6	3	4			
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	1	2	2	4	4	7	5	0	7	3	3	2	6	1	7	7	5	2	4	6	6	3	7	1	0	5	7	5	6	6	6	6			
	0	5	9	3	5	1	9	4	4	2	4	3	6	6	5	2	0	4	2	2	4	2	8	5	8	2	3	6	6	5	7	7			
Tissue NOS										+																								+	
Carcinoma																																			X
Fibrosarcoma																																			X
Hemangiosarcoma																																			
Lipoma																																			
Genital System																																			
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland		M	+	+	+	+	+	M	+	M	M	M	M	+	M	M	+	+	+	+	+	+	M	+	M	M	+	M	+	M	+	+	+		
Carcinoma																																			
Prostate		+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Testes		+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Interstitial Cell, Adenoma																X			X	X	X											X		X	X
Hematopoietic System																																			
Bone Marrow		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node		+	M	M	M	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Bronchial, Carcinoma, Metastatic, Parathyroid Gland																																			
Lymph Node, Mandibular		M	M	+	M	M	M	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	+	M	
Carcinoma, Metastatic, Zymbal'S Gland																																			
Lymph Node, Mesenteric		M	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Skin																																			

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CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	3	3	3	3	3	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		7	7	7	7	7	7	6	6	9	1	2	3	4	5	6	6	8	8	0	0	0	1	1	2	3	3	5	5	5	7	7	7	7	
Spleen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Thymus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Integumentary System	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mammary Gland	1	2	2	4	4	7	5	0	7	3	3	2	6	1	7	7	5	2	4	6	6	3	7	1	0	5	7	5	6	6	6	6	6		
Skin	5	5	9	3	5	1	9	4	4	4	2	4	3	6	5	2	0	4	2	2	4	6	2	8	5	8	2	3	6	6	6	6	6		
Fibrous Histiocytoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+			
Keratoacanthoma	M	M	M	M	M	M	M	M	+	+	+	+	M	+	M	M	M	+	+	M	M	M	M	M	M	+	+	+	M	+	M	+			
Subcut Tiss, Lipoma	+	+	+	+	+	M	M	+	+	+	M	M	M	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+		
Trichoepithelioma																																			
Musculoskeletal System																																			
Bone	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle	M	+	+	+	+	M	M	+	M	+	M	M	+	+	+	M	+	+	M	+	+	+	M	M	M	M	+	+	+	+	+	+	+		
Nervous System																																			
Brain	+	+	+	+	+	M	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Brain Stem										+																									
Respiratory System																																			
Larynx	M	M	M	M	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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Lab: NORTHROP

F 344/N Rat Male CONTROL	DAY ON TEST																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
ANIMAL ID	7	7	7	7	7	7	6	6	9	1	2	3	4	5	6	6	8	8	0	0	0	1	1	2	3	3	5	5	7
	3	3	3	3	3	3	4	6	9	6	6	4	9	1	5	8	2	6	0	0	0	0	4	5	3	5	3	6	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	1	2	2	4	4	7	5	0	7	3	3	2	2	6	1	7	7	5	2	4	6	6	3	7	1	0	5	7	6
	0	5	9	3	5	1	9	4	4	4	2	4	3	6	5	2	0	4	2	2	4	6	3	5	8	2	3	6	7
Larynx	M	M	M	M	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lung	M	M	M	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma													X																
Nose	M	M	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosarcoma																													
Trachea	M	M	M	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Special Senses System																													
Eye	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Harderian Gland	M	M	M	M	+	M	+	+	+	+	+	M	+	+	+	M	M	+	+	+	+	M	+	+	+	+	M	+	M
Lacrimal Gland	M	M	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary System																													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma																													
Urinary Bladder	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	I
Transit Epithe, Papilloma																													X
SYSTEMIC LESIONS																													
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear									X		X	X	X	X	X		X	X	X			X	X		X		X	X	X
Mesothelioma Benign																													
Mesothelioma Malignant																													X

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	ANIMAL ID	0 0 2 0 8	0 0 2 7 7	0 0 2 3 5	0 0 2 2 1	0 0 2 6 8	0 0 2 7 8	0 0 2 6 8	0 0 2 3 8	0 0 2 1 1	0 0 2 4 9	0 0 2 1 4	0 0 2 1 0	0 0 2 2 1	0 0 2 4 5	0 0 2 5 0	0 0 2 0 7	0 0 2 4 3	0 0 2 0 1	0 0 2 6 5	0 0 2 3 3	0 0 2 3 3	0 0 2 3 3	0 0 2 3 3	0 0 2 3 3	0 0 2 4 4	0 0 2 5 5	0 0 2 4 4	0 0 2 5 5	0 0 2 4 4	0 0 2 5 5	0 0 2 4 4	0 0 2 5 5

Alimentary System

Esophagus		+	+	+	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+		
Intestine Large, Cecum		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Intestine Large, Colon		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Intestine Large, Rectum		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Intestine Small, Duodenum		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Intestine Small, Ileum		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Intestine Small, Jejunum		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		
Liver		+	+	+	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Bile Duct, Carcinoma																																				
Fibrous Histiocytoma, Metastatic, Skin															X																					
Hepatocellular Adenoma																												X								
Hepatocyte, Adenoma																																				
Mesentery																																				
Pancreas		+	+	+		+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinar Cell, Adenoma																																				
Salivary Glands		+	M	M	M	+		+	+	+	M		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Zymbal'S Gland																																				
Fibrous Histiocytoma, Metastatic, Skin															X																					
Stomach																																				
Stomach, Forestomach		+	+	A	M	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular		+	+	A	A	+		+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Date Report Requested: 10/23/2014

Time Report Requested: 12:32:42

First Dose M/F: NA / NA

Lab: NORTHROP

F 344/N Rat Male CONTROL

Table with columns for DAY ON TEST and ANIMAL ID, containing numerical data for 32 animals. Rows include '0 0', '6 6 6 6 6 6 7', '8 8 8 8 8 9 0 0 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 5 5', and '1 1 2 8 8 8 5 8 0 2 6 2 4 6 6 6 9 9 0 2 7 8 8 8 3 3 5 5 4'.

- Tissue NOS
Carcinoma
Fibrosarcoma
Hemangiosarcoma
Lipoma

+ +
X

Genital System

- Epididymis
Preputial Gland
Carcinoma
Prostate
Seminal Vesicle
Testes
Interstitial Cell, Adenoma

Hematopoietic System

- Bone Marrow
Lymph Node
Bronchial, Carcinoma, Metastatic, Parathyroid Gland
Lymph Node, Mandibular
Carcinoma, Metastatic, Zymbal'S Gland
Lymph Node, Mesenteric
Fibrous Histiocytoma, Metastatic, Skin

+ +
M M + + + + + + M M + A + + + +
X X X X X X X X X X X X X X X X X
+ + + + + + + + + M + + + + + + + + + + + +
+ M + M + + + + M + M + + + + + + + + + +
M + + + + M + A + + + + M M M + + + + + + + +

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:42

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
CONTROL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 8 | 8 | 8 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | ANIMAL ID | 1 | 1 | 2 | 8 | 8 | 8 | 5 | 8 | 0 | 2 | 6 | 2 | 4 | 6 | 6 | 6 | 9 | 9 | 0 | 2 | 7 | 7 | 8 | 8 | 8 | 8 | 3 | 3 | 5 | 5 | 4 | 4 | 5 | 5 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 0 | 7 | 3 | 2 | 6 | 7 | 6 | 3 | 1 | 4 | 1 | 0 | 1 | 2 | 4 | 5 | 0 | 3 | 4 | 2 | 0 | 6 | 0 | 3 | 3 | 4 | 5 | 5 | 4 | 5 | 4 | 5 | 1 | 9 | | | |
| | 8 | 7 | 5 | 1 | 0 | 8 | 8 | 1 | 1 | 9 | 4 | 9 | 6 | 0 | 5 | 7 | 1 | 7 | 1 | 3 | 5 | 3 | 6 | 6 | 1 | 7 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Spleen | | | + | + | + | + | + | | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Thymus | | | + | + | M | + | + | | | M | + | + | + | | + | M | + | + | M | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | M | + | | | + | M | M | + | | M | M | M | M | + | M | M | + | + | M | M | M | + | + | M | + | M | M | M | M | | | |
| Skin | | | + | + | + | + | + | | | + | + | M | + | | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcut Tiss, Lipoma | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Trichoepithelioma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | + | + | + | + | + | | | M | + | + | M | | M | + | + | M | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oligodendroglioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | | | + | + | + | + | + | | | M | + | A | + | | + | + | + | + | + | + | + | + | + | M | M | M | M | M | M | M | + | + | + | + | + | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:42

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
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| ANIMAL ID | 0
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8 | | |
| Larynx | | | + | + | + | + | + | | M | + | A | + | | + | + | + | + | + | + | + | M | M | M | M | M | M | + | + | + | + | + |
| Lung | | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | M | M | M | M | M | M | + | + | + | + | + |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | + | + | + | + | + | | + | + | A | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | M | M | M | M | M | M | + | + | + | + | + |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | | | + | + | + | + | M | | + | + | + | + | | + | + | + | + | + | + | M | M | M | M | M | M | M | + | M | M | + | + |
| Lacrimal Gland | | | + | + | + | + | + | | + | + | A | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | + | + | + | + | + | | + | + | A | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + |
| Transit Epithe, Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | | + | + | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | X | | X | | | | X | X | | X | | X | | X | X | | X | X | | X | X | X | X | X | X | X | X | X | X |
| Mesothelioma Benign | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | X | | | | | X | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:42

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male CONTROL

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 4 | 1 | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 6 | 1 | 0 | 0 | 1 | 3 | 4 | 4 | 6 | 1 | 2 | 2 | 3 | 5 | 5 | |
| | 3 | 9 | 7 | 3 | 6 | 2 | 9 | 4 | 7 | 1 | 3 | 4 | 8 | 0 | 2 | 8 | *TOTALS |

Alimentary System

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | | | | | | | 61 |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | | | | | | | 58 |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | | | | | | | 58 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | | | | | | | 60 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | | | | | | | 60 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | | | | | | | 60 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | | | | | | | 60 |
| Liver | + | + | + | + | + | + | + | + | + | + | | | | | | | 68 |
| Bile Duct, Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | 1 |
| Hepatocyte, Adenoma | | | | | X | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | | + | + | + | | | | | | | 58 |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | | | | | | | 55 |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | 1 |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | 1 |
| Stomach | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | | | | | | | 62 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | | | | | | | 61 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

**F 344/N Rat Male
CONTROL**

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 4 | 1 | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 6 | 1 | 0 | 0 | 1 | 3 | 4 | 4 | 6 | 1 | 2 | 2 | 3 | 5 | 5 | 5 | 5 |
| | 3 | 9 | 7 | 3 | 6 | 2 | 9 | 4 | 7 | 1 | 3 | 4 | 8 | 0 | 2 | 8 | 8 | 8 |
| | *TOTALS | | | | | | | | | | | | | | | | | |
| Tongue | + | | | | | | | | | | | | | | | | | 1 |
| Cardiovascular System | | | | | | | | | | | | | | | | | | |
| Heart | + + + + + + + + + | | | | | | | | | | | | | | | | | 63 |
| Endocrine System | | | | | | | | | | | | | | | | | | |
| Adrenal Gland | + | | | | | | | | | | | | | | | | | 2 |
| Adrenal Gland, Cortex | + + + + + + + + + | | | | | | | | | | | | | | | | | 67 |
| Adenoma | | | | | | | | | | | | | | | | | | 2 |
| Adrenal Gland, Medulla | + + + + + + + + + | | | | | | | | | | | | | | | | | 67 |
| Pheochromocytoma Benign | X X X X X X X | | | | | | | | | | | | | | | | | 19 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | 7 |
| Adenoma | X | | | | | | | | | | | | | | | | | 3 |
| Carcinoma | | | | | | | | | | | | | | | | | | 2 |
| Parathyroid Gland | + + + M + + + + + | | | | | | | | | | | | | | | | | 54 |
| Adenoma | X | | | | | | | | | | | | | | | | | 3 |
| Carcinoma | X | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | M + + + + + + + I I | | | | | | | | | | | | | | | | | 50 |
| Pars Distalis, Adenoma | X X X X X | | | | | | | | | | | | | | | | | 29 |
| Thyroid Gland | + + + + + + + + + | | | | | | | | | | | | | | | | | 56 |
| C Cell, Adenoma | X X X | | | | | | | | | | | | | | | | | 2 |
| C Cell, Carcinoma | | | | | | | | | | | | | | | | | | 1 |
| General Body System | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 4 | 1 | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 6 | 1 | 0 | 0 | 1 | 3 | 4 | 4 | 6 | 1 | 2 | 2 | 3 | 5 | 5 | |
| | 3 | 9 | 7 | 3 | 6 | 2 | 9 | 4 | 7 | 1 | 3 | 4 | 8 | 0 | 2 | 8 | |
| Tissue NOS | | | | | | + | + | | | | | | | | | | 7 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Fibrosarcoma | | | | | | | | | | | | | | | | | 1 |
| Hemangiosarcoma | | | | | | X | | | | | | | | | | | 1 |
| Lipoma | | | | | | | | | | | | | | | | | 1 |
| Genital System | | | | | | | | | | | | | | | | | |
| Epididymis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 67 |
| Preputial Gland | | + | + | + | + | + | + | + | + | M | M | | | | | | 45 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 62 |
| Seminal Vesicle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
| Interstit Cell, Adenoma | | | X | X | X | X | | | | X | X | | | | | | 32 |
| Hematopoietic System | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
| Lymph Node | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 59 |
| Bronchial, Carcinoma, Metastatic, Parathyroid Gland | | | | X | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 52 |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mesenteric | | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | 54 |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | 1 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|
| | 0
7
5
4 | 0
7
6
1 | 0
7
7
3 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
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7 | 0
7
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7 | 0
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7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | |
| ANIMAL ID | 0
0
2
7
3 | 0
0
2
6
9 | 0
0
2
1
7 | 0
0
2
0
3 | 0
0
2
0
6 | 0
0
2
1
2 | 0
0
2
3
9 | 0
0
2
4
4 | 0
0
2
4
7 | 0
0
2
6
1 | 0
0
2
1
4 | 0
0
2
2
8 | 0
0
2
2
3 | 0
0
2
3
5 | 0
0
2
5
2 | 0
0
2
5
8 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 67 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Integumentary System | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | M | M | + | M | M | M | + | + | M | | | | | | 29 | |
| Skin | + | + | + | + | + | + | + | + | + | + | | | | | | 56 | |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | 1 | |
| Keratoacanthoma | | | | | | | | | | | | | | | | 1 | |
| Subcut Tiss, Lipoma | | | | | | | | | | | | | | | | 1 | |
| Trichoepithelioma | | | | X | | | | | | | | | | | | 1 | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | | | | | | 67 | |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | 1 | |
| Skeletal Muscle | + | + | + | + | M | + | + | + | + | + | | | | | | 48 | |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | 1 | |
| Nervous System | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | | | | | | 66 | |
| Adenoma | | | | | | | | | | | | | | | | 1 | |
| Oligodendroglioma Benign | | | | | | | | | | | | | | | | 1 | |
| Brain, Brain Stem | | | | | | | | | | | | | | | | 1 | |
| Respiratory System | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | M | + | + | + | + | + | | | | | | 52 | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | | |
| | 4 | 1 | 3 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 7 | 6 | 1 | 0 | 0 | 1 | 3 | 4 | 4 | 6 | 1 | 2 | 2 | 3 | 5 | | |
| | 3 | 9 | 7 | 3 | 6 | 2 | 9 | 4 | 4 | 7 | 1 | 3 | 4 | 8 | 0 | | |
| Larynx | + | + | + | + | M | + | + | + | + | + | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Special Senses System | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Harderian Gland | M | + | M | M | + | M | M | M | M | M | | | | | | | |
| Lacrimal Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Urinary System | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Transit Epithe, Papilloma | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Leukemia Mononuclear | X | | X | X | X | | | | X | | | | | | | | |
| Mesothelioma Benign | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | X | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:43

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 24 MO | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 1 | 2 | 6 | 6 | 6 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 5 | 7 | 1 | 6 | 9 | 4 | 3 | 8 | 2 | 7 | 3 | 3 | 7 | 7 | 8 | 6 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 2 | 2 | 2 | 4 | 5 | 7 | 0 | 2 | 3 | 7 | 1 | 0 | 6 | 1 | 1 | 7 | 1 | 5 | 7 | 3 | 7 | 5 | 1 | 3 | 4 | 3 | 6 | 1 | 3 | 1 |
| | 1 | 0 | 1 | 9 | 0 | 8 | 2 | 1 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 7 | 7 | 1 | 5 | 1 | 2 | 6 | 3 | 8 | 0 | 7 | 9 | 6 | 0 | 1 | 3 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Esophagus | + | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | A | + | + | + | + | + | + | + | A | + | M | + | + | + | + | A | A | + | + | + | A | + | + | + | M | A | A | + | + | + | + | | |
| Intestine Large, Colon | A | + | + | + | + | + | + | + | A | + | M | + | + | + | + | A | A | + | + | + | A | + | + | + | M | A | A | + | + | + | + | | |
| Intestine Large, Rectum | A | + | + | + | + | + | + | + | + | + | M | + | + | + | + | A | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | | |
| Intestine Small | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | M | + | + | + | + | A | A | + | + | + | A | + | + | + | A | A | + | + | + | + | + | | |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | | A | M | + | + | + | + | A | A | + | + | + | A | + | + | + | A | A | A | + | + | + | + | | |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | A | + | M | + | + | + | + | A | A | + | + | + | A | + | + | + | A | A | A | + | + | + | + | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | A | + | + | + | + | + | + | + | | + | M | + | + | + | | + | + | + | + | + | + | + | + | | M | + | | + | + | + | + | | |
| Duct, Adenoma | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Salivary Glands | + | | M | M | M | | | + | | + | M | + | + | | + | + | + | + | + | + | + | + | + | A | M | + | | + | + | + | + | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | A | + | + | + | + | + | + | + | | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | A | + | + | + | + | + | + | + | + | + | M | + | + | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:32:44

First Dose M/F: NA / NA

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 24 MO

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 1 | 2 | 6 | 6 | 6 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 4 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 5 | 7 | 1 | 6 | 9 | 4 | 3 | 8 | 2 | 7 | 3 | 3 | 7 | 7 | 8 | 6 | 9 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 2 | 2 | 2 | 4 | 5 | 7 | 0 | 2 | 3 | 7 | 1 | 0 | 6 | 1 | 1 | 7 | 1 | 5 | 7 | 3 | 7 | 5 | 1 | 3 | 4 | 3 | 6 | 1 | 3 | 1 | |
| | 1 | 0 | 1 | 9 | 0 | 8 | 2 | 1 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 7 | 7 | 1 | 5 | 1 | 2 | 6 | 3 | 8 | 0 | 7 | 9 | 6 | 0 | 1 | 3 | |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Gland, Cortex | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Medulla | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | | + | M | + | + | + | | + | A | A | + | + | + | + | + | | |
| Pheochromocytoma Nos | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Islets, Pancreatic | | | | | | | | | | | + | + | | | | | | | | | | | | + | | | | | | | | + | + |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | X | | | | | | | | X | X | |
| Parathyroid Gland | + | M | M | M | M | | M | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | A | M | + | + | + | + | M | + | I | + | I | + | + | + | + | + | + | + | + | M | I | + | + | + | + | M | A | + | + | + | + | | |
| Adenoma | | | X | | | | | | | | | | | X | X | X | X | | | X | | X | X | | | | | | | | X | | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Thyroid Gland | A | M | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Follicular Cel, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

General Body System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | A |
| Fibroma | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | A | + | + | | + | + |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:44

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 10 MG/M3 24 MO | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 1 | 2 | 6 | 6 | 6 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 5 | 7 | 1 | 6 | 9 | 4 | 3 | 8 | 2 | 7 | 3 | 3 | 7 | 7 | 8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 2 | 2 | 2 | 4 | 5 | 7 | 0 | 2 | 3 | 7 | 1 | 0 | 6 | 1 | 1 | 7 | 1 | 5 | 7 | 3 | 7 | 5 | 1 | 3 | 4 | 3 | 6 | |
| | 1 | 0 | 1 | 9 | 0 | 8 | 2 | 1 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 7 | 7 | 1 | 5 | 1 | 2 | 6 | 3 | 8 | 0 | 7 | 9 | 6 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | M | M | + | M | + | + | + | + | + | + | M | + | + | M | + | I | + | + | + | + | M | M | + | | M | M | + | M | + | M |
| Prostate | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + |
| Seminal Vesicle | + | + | + | + | + | + | + | + | A | + | M | + | + | + | + | A | + | | + | + | + | + | + | + | A | + | + | | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | M | + | + | + | | + | + | + | + | + | + | + | + | + | A | | + | | + | + |
| Interstit Cell, Adenoma | | | | | | | | | X | X | | | | | | | X | X | | | | | | | | | | | | X |

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | | M | | + | + | | | + | + | | + | + | | + | + | | | A | + | + | | |
| Lymph Node | + | M | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | M | + | |
| Lymph Node, Mandibular | + | + | M | + | M | M | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | |
| Lymph Node, Mesenteric | M | + | M | M | M | M | + | M | M | M | M | M | + | M | M | | + | | M | M | M | M | M | M | M | M | M | M | + | M | |
| Spleen | A | + | + | + | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thymus | M | M | M | M | M | M | M | + | + | M | M | + | + | + | + | + | + | M | + | + | M | + | M | M | M | M | M | M | + | M | + |
| Thymoma Nos | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | M | M | M | M | M | M | M | M | M | M | M | + | + | M | M | + | + | | M | M | + | M | M | M | | + | + | M | + | |
| Skin | + | + | + | + | | + | + | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Subcut Tiss, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:44

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 24 MO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | |
| | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 1 | 2 | 6 | 6 | 6 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 4 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 5 | 7 | 1 | 6 | 9 | 4 | 3 | 8 | 2 | 7 | 3 | 3 | 7 | 7 | 8 | 6 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 2 | 2 | 2 | 4 | 5 | 7 | 0 | 2 | 3 | 7 | 1 | 0 | 6 | 1 | 1 | 7 | 1 | 5 | 7 | 3 | 7 | 5 | 1 | 3 | 4 | 3 | 6 | 1 | 3 | 1 | 1 |
| | 1 | 0 | 1 | 9 | 0 | 8 | 2 | 1 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 7 | 7 | 1 | 5 | 1 | 2 | 6 | 3 | 8 | 0 | 7 | 9 | 6 | 0 | 1 | 3 | |

Musculoskeletal System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | M | + | M | + | + | M | + | + | + | + | M | + | M | + | M | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |

Nervous System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Brain | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | | | | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | |
| Medulloblastoma Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Respiratory System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | M | M | M | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | |
| Lung | + | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Septum, Polyp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |

Special Senses System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | M | + | + | M | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | |
| Harderian Gland | M | + | + | + | M | + | + | M | + | + | + | + | + | + | M | | M | M | | M | + | M | | | M | M | M | | M | M | | M | M | | | | |
| Lacrimal Gland | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:44

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| F 344/N Rat Male | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| 10 MG/M3 24 MO | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 7 | 1 | 2 | 6 | 6 | 6 | 7 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 5 | 7 | 1 | 6 | 9 | 4 | 3 | 8 | 2 | 7 | 3 | 3 | 7 | 7 | 8 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 2 | 2 | 2 | 4 | 5 | 7 | 0 | 2 | 3 | 7 | 1 | 0 | 6 | 1 | 1 | 7 | 1 | 5 | 7 | 3 | 7 | 5 | 1 | 3 | 4 | 3 | 6 | 1 | 3 | 1 |
| | 1 | 0 | 1 | 9 | 0 | 8 | 2 | 1 | 5 | 4 | 8 | 2 | 5 | 4 | 5 | 7 | 7 | 1 | 5 | 1 | 2 | 6 | 3 | 8 | 0 | 7 | 9 | 6 | 0 | 1 | 3 |
| Kidney | | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | X | X | | | | | | | X | X | X | | X | X | X | | X | X | | X | X | | X | X | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Test Compound: Wollastonite calcium silicates
 CAS Number: 13983-17-0

Date Report Requested: 10/23/2014
 Time Report Requested: 12:32:44
 First Dose M/F: NA / NA
 Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 24 MO | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| | | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 8 | 8 | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | | |
| | | 5 | 5 | 3 | 6 | 3 | 1 | 6 | 4 | 7 | 6 | 2 | 1 | 4 | 4 | 7 | 2 | 2 | 3 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 6 | 3 | 1 | 6 | 0 | 0 |
| | | 0 | 7 | 3 | 5 | 5 | 6 | 9 | 2 | 4 | 7 | 7 | 9 | 5 | 3 | 0 | 2 | 4 | 8 | 2 | 6 | 8 | 1 | 3 | 8 | 6 | 0 | 6 | 2 | 1 | 7 | 9 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | M | |
| Intestine Large | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | | + | + | + | + | + | + | + | A | + | + | + | + | | | | |
| Intestine Large, Colon | A | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | | M | + | + | + | + | + | + | + | A | + | + | | | + | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | | M | + | + | + | + | + | + | + | A | + | + | | | | | |
| Intestine Small | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | + | | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Duct, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| Fibrosarcoma | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | | | | + | + | + | | | | + | A | + | + | | + | + | + | + | + | + | A | + | + | + | + | + | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:45

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F 344/N Rat Male | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 10 MG/M3 24 MO | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 8 | 8 | 8 | |
| | 9 | 9 | 5 | 5 | 8 | 9 | 9 | 1 | 2 | 3 | 0 | 3 | 5 | 6 | 4 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 1 | 4 | 5 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | |
| | 5 | 5 | 3 | 6 | 3 | 1 | 6 | 4 | 7 | 6 | 2 | 1 | 4 | 4 | 7 | 2 | 2 | 3 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 6 | 3 | 1 | 0 | |
| | 0 | 7 | 3 | 5 | 5 | 6 | 9 | 2 | 4 | 7 | 7 | 9 | 5 | 3 | 0 | 4 | 8 | 2 | 6 | 8 | 1 | 3 | 8 | 6 | 0 | 6 | 2 | 1 | 7 | 9 |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Gland, Cortex Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Adrenal Gland, Medulla Pheochromocytoma Nos | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Islets, Pancreatic Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Adenoma | + | M | M | + | + | + | + | + | I | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Thyroid Gland Adenoma | X | | | | X | X | X | X | | X | | | X | X | | | X | X | X | | | | | | X | X | X | | | |
| Thyroid Gland C Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cel, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

General Body System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:45

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 10 MG/M3 24 MO | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 8 | 8 |
| | 9 | 9 | 5 | 5 | 8 | 9 | 9 | 1 | 2 | 3 | 0 | 3 | 5 | 6 | 4 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 4 | 5 | 7 | 7 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | | + | + | | | + | | M | + | M | | | | M | + | M | + | M | + | | + | + | M | M | + | A | M | M | | + |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | | | + | A | + | + | + | M | + | + | + | + | M | + | + | | + | + | + | + |
| Seminal Vesicle | + | + | + | + | + | + | | + | + | + | + | + | + | + | A | + | + | A | | + | + | + | + | + | + | M | + | + | + | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + |
| Interstit Cell, Adenoma | | | | X | | | X | X | | | | | | | X | X | X | | | X | X | X | | X | X | | | | X | X | X |

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | | | + | | + | + | + | + | + | | | | | + | | | + | + | + | + | | + | | + | + | + | | + | + | + | |
| Lymph Node | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | M | M | + | + | + | M | M | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M |
| Lymph Node, Mesenteric | + | M | + | + | + | M | M | M | + | M | + | M | | + | + | M | | + | M | M | + | + | M | M | M | M | M | + | + | M | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Thymus | + | + | + | M | M | + | M | M | + | + | M | M | + | | M | M | + | M | + | | M | + | M | + | M | M | + | + | + | + | |
| Thymoma Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Integumentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | M | + | M | + | + | | + | M | + | M | M | + | | M | M | + | M | M | + | + | M | + | + | + | + | + | + | M | M | |
| Skin | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | | X | | | | | | X | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcut Tiss, Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:45

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| F 344/N Rat Male | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| 10 MG/M3 24 MO | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 8 | 8 | | | |
| | 9 | 9 | 5 | 5 | 8 | 9 | 9 | 1 | 2 | 3 | 0 | 3 | 5 | 6 | 4 | 6 | 6 | 6 | 6 | 3 | 3 | 7 | 7 | 7 | 7 | 1 | 4 | 5 | 7 | 7 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | | |
| | 5 | 5 | 3 | 6 | 3 | 1 | 6 | 4 | 7 | 6 | 2 | 1 | 4 | 4 | 7 | 2 | 2 | 3 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 6 | 3 | 1 | 6 | 0 | 0 | 0 |
| | 0 | 7 | 3 | 5 | 5 | 6 | 9 | 2 | 4 | 7 | 7 | 9 | 5 | 3 | 0 | 2 | 4 | 8 | 2 | 6 | 8 | 1 | 3 | 8 | 6 | 0 | 6 | 2 | 1 | 7 | 9 | 9 |

Musculoskeletal System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | M | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |

Nervous System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medulloblastoma Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Respiratory System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | M | | M | + | | M | + | + | + | + | + | + | + | + | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | M | + | M | M | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Septum, Polyp | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | M | + | M | M | + | + | + | + | + | + | + | + | + | M |

Special Senses System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | | M | M | | | M | M | | | | | | | M | | M | | M | M | M | | | | M | M | M | | M | + | M | | | |
| Lacrimal Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:45

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F 344/N Rat Male | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 10 MG/M3 24 MO | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 6 | 6 | 8 | 8 | |
| | 9 | 9 | 5 | 5 | 8 | 9 | 9 | 1 | 2 | 3 | 0 | 3 | 5 | 6 | 4 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 4 | 5 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | |
| | 5 | 5 | 3 | 6 | 3 | 1 | 6 | 4 | 7 | 6 | 2 | 1 | 4 | 4 | 7 | 2 | 2 | 3 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 6 | 3 | 1 | 6 | |
| | 0 | 7 | 3 | 5 | 5 | 6 | 9 | 2 | 4 | 7 | 7 | 9 | 5 | 3 | 0 | 2 | 4 | 8 | 2 | 6 | 8 | 1 | 3 | 8 | 6 | 3 | 2 | 1 | 7 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | X | X | X | | | X | | | X | X | X | X | X | X | X | X | | X | X | X | X | | X | X | X | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue
 M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

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Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:45

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 24 MO | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 4 | 6 | 6 | 6 | 7 | 0 | 4 | 5 | 0 | 1 | 2 | 4 | 4 | 5 | 5 |
| | | 7 | 8 | 2 | 3 | 8 | 3 | 5 | 3 | 4 | 9 | 4 | 4 | 6 | 9 | 2 | 2 |
| | | *TOTALS | | | | | | | | | | | | | | | |

Alimentary System

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 63 |
| Intestine Large | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 57 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 58 |
| Intestine Small | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 58 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 54 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 55 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 69 |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | 1 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Duct, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | 58 |
| Fibrosarcoma | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 61 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 62 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:46

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 24 MO

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 3 | 4 | 6 | 6 | 6 | 7 | 7 | 0 | 4 | 5 | 0 | 1 | 2 | 4 | 4 | 5 |
| | 7 | 8 | 2 | 3 | 8 | 3 | 5 | 3 | 4 | 9 | 4 | 4 | 6 | 6 | 9 | 2 |
| | *TOTALS | | | | | | | | | | | | | | | |

Endocrine System

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|----|
| Adrenal Gland, Cortex | + | + | + | + | + | + | + | + | + | + | | | | | | | 65 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Adrenal Gland, Medulla | + | + | + | + | + | + | + | + | | | | | | | | | 61 |
| Pheochromocytoma Nos | | | X | | | X | | | | | | | | | | | 17 |
| Islets, Pancreatic | | | | | | + | | | + | | | | | | | | 13 |
| Adenoma | | | | | | X | | | X | | | | | | | | 11 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | | | | | | | 55 |
| Pituitary Gland | + | + | + | | + | + | M | + | + | + | | | | | | | 53 |
| Adenoma | | | X | X | | X | X | | X | X | X | | | | | | 30 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | 56 |
| Adenoma | | | | | | X | | | | | | | | | | | 1 |
| C Cell, Adenoma | | | | | | X | | | | | | | | | | | 3 |
| Follicular Cel, Carcinoma | | | | X | | | | | | | | | | | | | 1 |

General Body System

| | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | + | | | | | | | | | 9 |
| Fibroma | | | | | | | | | | | | | | | | | 3 |
| Fibrosarcoma | | | | | | | | X | | | | | | | | | 3 |

Genital System

| | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | | | | | | | 67 |
|------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:46

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 24 MO | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | 0
7
8
7 | |
| ANIMAL ID | 0
0
1
3
7 | 0
0
1
4
8 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
8 | 0
0
1
7
3 | 0
0
1
7
5 | 0
0
1
7
3 | 0
0
1
7
4 | 0
0
1
7
5 | 0
0
1
7
9 | 0
0
1
7
4 | 0
0
1
7
4 | 0
0
1
7
4 | 0
0
1
7
4 | 0
0
1
7
4 | 0
0
1
7
4 |
| Penis | | | | | | | | | | | | | | | | | 2 |
| Preputial Gland | M | M | + | M | + | M | M | | | + | M | | | | | | 31 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | | | | | | 64 |
| Seminal Vesicle | + | + | + | | + | + | + | + | + | + | + | | | | | | 59 |
| Testes | + | + | + | + | + | + | + | | | + | + | | | | | | 65 |
| Interstit Cell, Adenoma | X | X | X | X | X | X | X | | | | X | | | | | | 28 |
| Hematopoietic System | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | + | + | | + | | | + | + | + | | | | | 44 |
| Lymph Node | + | + | + | + | + | + | + | + | M | + | + | | | | | | 57 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | | | | | | 64 |
| Lymph Node, Mesenteric | M | M | M | M | + | + | | | M | | M | + | + | + | + | + | 27 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | | | | | | 67 |
| Thymus | + | M | + | + | + | + | + | + | + | M | + | | | | | | 37 |
| Thymoma Nos | | | | | | | | | | | | | | | | | 1 |
| Integumentary System | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | + | + | + | | + | + | M | M | | | | | | | 29 |
| Skin | + | + | + | + | + | + | + | + | + | + | | | | | | | 66 |
| Fibroma | | | | | | | | | | | | | | | | | 1 |
| Fibrosarcoma | | | | | | | | | | | | | | | | | 1 |
| Keratoacanthoma | | | | | | | | | | | | | | | | | 2 |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Subcut Tiss, Fibrosarcoma | | | | | | | | | | | | | | | | | 1 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:46

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 24 MO | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 3 | 4 | 6 | 6 | 6 | 7 | 7 | 0 | 4 | 5 | 0 | 1 | 2 | 4 | 4 | 5 |
| | | 7 | 8 | 2 | 3 | 8 | 3 | 5 | 3 | 4 | 9 | 4 | 4 | 6 | 6 | 9 | 2 |
| | | *TOTALS | | | | | | | | | | | | | | | |

Musculoskeletal System

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 67 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 56 |

Nervous System

| | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 68 |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | 1 |
| Medulloblastoma Nos | | | | | | | | | | | | | | | | | 1 |

Respiratory System

| | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 55 |
| Carcinoma, Metastatic, Thyroid Gland | | | | X | | | | | | | | | | | | | 1 |
| Lung | + | + | + | + | + | + | + | + | | | | | | | | | 54 |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Nose | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 63 |
| Septum, Polyp | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 58 |

Special Senses System

| | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 66 |
| Harderian Gland | M | + | + | | | | + | M | + | | | | | | | M | 16 |
| Lacrimal Gland | + | | + | + | + | + | + | | | | | | + | + | | | 67 |

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:46

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 24 MO

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Kidney | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| Urethra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Urinary Bladder | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 60 |
| SYSTEMIC LESIONS | 3 | 4 | 6 | 6 | 6 | 7 | 7 | 0 | 4 | 5 | 0 | 1 | 2 | 4 | 4 | 5 | |
| Multiple Organ | 7 | 8 | 2 | 3 | 8 | 3 | 5 | 3 | 4 | 9 | 4 | 4 | 6 | 9 | 2 | | 78 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | 39 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:46

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| F 344/N Rat Male | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| 10 MG/M3 12 MO | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 0 | 1 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 1 | | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 1 | 7 | 6 | 6 | 1 | 7 | 1 | 5 | 7 | 4 | 1 | 2 | 8 | 4 | 3 | 0 | 0 | 1 | 1 | 6 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 3 | 2 | 5 | 5 | 6 | 6 | 7 | 0 | 1 | 6 | 1 | 2 | 0 | 3 | 7 | 4 | 0 | 5 | 5 | 3 | 7 | 5 | 6 | 7 | 0 | 1 | 3 | 2 | 7 | 3 | 5 |
| | 9 | 9 | 0 | 7 | 0 | 3 | 4 | 8 | 8 | 4 | 0 | 3 | 7 | 7 | 5 | 8 | 2 | 3 | 4 | 4 | 6 | 9 | 1 | 3 | 3 | 6 | 6 | 4 | 1 | 3 | 5 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | A | M | + | A | A | + | + | + | + | | |
| Intestine Large, Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | A | M | + | + | A | + | + | + | + | | |
| Intestine Large, Rectum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | A | M | + | + | A | + | + | + | + | | |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | + | M | + | + | A | + | + | + | + | | |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | A | M | + | + | A | + | + | + | + | | |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | M | A | M | + | + | A | + | + | + | + | | |
| Liver | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | M | + | + | + | + | + | | |
| Salivary Glands | A | M | M | M | M | M | M | + | + | + | + | + | + | M | + | M | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Stomach, Glandular | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | A | M | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:47

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| F 344/N Rat Male | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | | |
| 10 MG/M3 12 MO | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 0 | 1 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 1 | | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 1 | 7 | 6 | 6 | 1 | 7 | 1 | 5 | 7 | 4 | 1 | 2 | 8 | 4 | 3 | 0 | 0 | 1 | 6 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 3 | 2 | 5 | 5 | 6 | 6 | 7 | 0 | 1 | 6 | 1 | 2 | 0 | 3 | 7 | 4 | 0 | 5 | 5 | 3 | 7 | 5 | 6 | 7 | 0 | 1 | 3 | 2 | 7 | 3 | 5 |
| | 9 | 9 | 0 | 7 | 0 | 3 | 4 | 8 | 8 | 4 | 0 | 3 | 7 | 7 | 5 | 8 | 2 | 3 | 4 | 4 | 6 | 9 | 1 | 3 | 3 | 6 | 6 | 4 | 1 | 3 | 5 |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|
| Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | M | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Cortex | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Medulla | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos | | | | | | | | | | | | | | | | | | | | | | | | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | |
| Pheochromocytoma Nos, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | | | | | | | | | | | | | + | + | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | A | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pituitary Gland | A | I | M | M | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | M | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | X | X | | | | | | | | | X | X | X | | | | | | | | | X | | X | | X | | X | | X | | X | | X | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | A | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| C Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Follicular Cel, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:47

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | | | |
| ANIMAL ID | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 0 | 1 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 1 | | | | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 1 | 7 | 6 | 6 | 1 | 7 | 1 | 5 | 7 | 4 | 1 | 2 | 8 | 4 | 3 | 0 | 0 | 1 | 1 | 6 | 2 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | 3 | 2 | 5 | 5 | 6 | 6 | 7 | 0 | 1 | 6 | 1 | 2 | 0 | 3 | 7 | 4 | 0 | 5 | 5 | 3 | 7 | 5 | 6 | 7 | 5 | 6 | 7 | 3 | 2 | 7 | 3 | 5 | | |
| | 9 | 9 | 0 | 7 | 0 | 3 | 4 | 8 | 8 | 4 | 0 | 3 | 7 | 7 | 5 | 8 | 2 | 3 | 4 | 4 | 6 | 9 | 1 | 3 | 3 | 6 | 6 | 4 | 1 | 3 | 5 | | | |
| Lymph Node, Mesenteric | + | M | M | M | + | M | + | | + | + | | | + | | + | + | M | + | + | + | + | A | + | | + | M | M | M | | M | + | | | |
| Spleen | + | + | + | + | + | + | + | | + | + | | | + | + | + | + | + | + | + | + | + | A | + | | + | M | + | M | + | + | + | + | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | A | M | M | M | M | M | + | | + | + | | | + | M | + | + | + | + | + | M | M | M | + | | + | M | M | + | M | M | + | | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | M | M | M | M | M | + | | M | + | | | M | + | + | + | + | M | M | + | + | M | + | | + | M | + | M | + | + | + | M | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | M | + | + | + | + | + | | + | + | | | + | M | + | + | + | M | M | + | + | M | + | | + | + | + | + | + | + | + | + | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilloma | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Sebaceous GI, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | M | M | M | M | + | + | | + | + | | | + | + | + | + | M | + | M | + | + | + | + | | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | + | + | + | + | + | + | + | | + | + | | | + | + | + | + | | M | M | + | + | + | + | | | M | + | + | + | + | + | + | | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | A | + | M | M | A | M | + | | + | + | | | + | + | + | + | | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:47

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose MF: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 10 MG/M3 12 MO | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 0 | 1 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 1 | |
| | | 1 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 1 | 7 | 6 | 6 | 1 | 7 | 1 | 5 | 7 | 4 | 1 | 2 | 8 | 4 | 3 | 0 | 0 | 1 | 1 | 6 | 2 | | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 2 | 5 | 5 | 6 | 6 | 7 | 0 | 1 | 6 | 1 | 2 | 0 | 3 | 7 | 4 | 0 | 5 | 5 | 3 | 7 | 5 | 6 | 7 | 0 | 1 | 3 | 2 | 7 | 3 | 5 | | |
| | | 9 | 9 | 0 | 7 | 0 | 3 | 4 | 8 | 8 | 4 | 0 | 3 | 7 | 7 | 5 | 8 | 2 | 3 | 4 | 4 | 6 | 9 | 1 | 3 | 3 | 6 | 6 | 4 | 1 | 3 | 5 | | |

Respiratory System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Larynx | A | M | M | M | M | M | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | A | M | M | M | M | M | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | A | + | M | M | M | M | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | A | M | M | M | M | M | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Senses System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | + | + | M | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | A | + | M | M | + | M | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | + | + | M | M | M | M | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Urinary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | A | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | A | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:48

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 12 MO | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| | | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 0 | 1 | 6 | 7 | 8 | 8 | 9 | 0 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 1 | | |
| ANIMAL ID | | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 1 | 7 | 6 | 6 | 1 | 7 | 1 | 5 | 7 | 4 | 1 | 2 | 8 | 4 | 3 | 0 | 0 | 1 | 1 | 6 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SYSTEMIC LESIONS | | 3 | 2 | 5 | 5 | 6 | 6 | 7 | 0 | 1 | 6 | 1 | 2 | 0 | 3 | 7 | 4 | 0 | 5 | 5 | 3 | 7 | 5 | 6 | 7 | 0 | 1 | 3 | 2 | 7 | 3 | 5 | |
| | | 9 | 9 | 0 | 7 | 0 | 3 | 4 | 8 | 8 | 4 | 0 | 3 | 7 | 7 | 5 | 8 | 2 | 3 | 4 | 4 | 6 | 9 | 1 | 3 | 3 | 6 | 6 | 4 | 1 | 3 | 5 | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | | + | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | X | | | | | X | | X | | | X | | | | X | | X | X | X | | X | X | X | | X | | | X | X | X | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:48

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| F 344/N Rat Male | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| 10 MG/M3 12 MO | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 8 |
| | 6 | 2 | 3 | 4 | 6 | 9 | 3 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 5 | 5 | 5 | 7 | 7 | 4 | 4 | 4 | 6 | 6 | 7 | 1 | 0 | 1 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 0 | 2 | 0 | 4 | 3 | 4 | 2 | 5 | 0 | 4 | 5 | 5 | 2 | 4 | 1 | 7 | 1 | 2 | 4 | 2 | 3 | 1 | 4 | 7 | 3 | 1 | 1 | 6 | 1 | 2 | |
| | 9 | 1 | 2 | 9 | 7 | 1 | 3 | 0 | 2 | 5 | 4 | 1 | 6 | 8 | 1 | 4 | 0 | 1 | 1 | 2 | 6 | 0 | 3 | 5 | 2 | 5 | 9 | 7 | 2 | 5 | 5 | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | M | A | A | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Intestine Large, Colon | M | A | A | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | M | A | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | M | A | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | M | A | A | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | |
| Intestine Small, Jejunum | M | A | A | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Liver | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | M | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | |
| Salivary Glands | M | M | + | M | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | M | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tongue | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:48

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 |
| | 6 | 2 | 3 | 4 | 6 | 9 | 3 | 3 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 5 | 5 | 7 | 7 | 4 | 4 | 4 | 6 | 6 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 0 | 2 | 0 | 4 | 3 | 4 | 2 | 5 | 0 | 4 | 5 | 5 | 2 | 4 | 1 | 7 | 1 | 2 | 4 | 2 | 3 | 1 | 4 | 7 | 3 | 1 | 1 |
| | 9 | 1 | 2 | 9 | 7 | 1 | 3 | 0 | 2 | 5 | 4 | 1 | 6 | 8 | 1 | 4 | 0 | 1 | 1 | 2 | 6 | 0 | 3 | 5 | 2 | 5 | 9 | 7 |

Endocrine System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Cortex | + | A | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Medulla | + | A | + | M | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bilateral, Pheochromocytoma Nos | | | | | | | X | | | | | | | X | | | | | | | | | | X | | X | | | | |
| Pheochromocytoma Malignant | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos | | | X | | | | | | | | | | X | | | | | X | X | X | X | | | | | | | X | | |
| Pheochromocytoma Nos, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | | | | | + | | | | | | | | + | | + | | | | | | | | | | | | | + | |
| Adenoma | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | X | |
| Carcinoma | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | | + | + | M | M | M | M | M | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | M | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | I | + | + | + | M |
| Adenoma | | | X | | | X | X | | | X | X | X | X | X | X | X | | X | X | X | | X | | | | | X | X | X | |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | A | + | + | + | | + | + | M | M | M | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cel, Adenoma | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:48

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 |
| ANIMAL ID | 6 | 2 | 3 | 4 | 6 | 9 | 3 | 3 | 7 | 3 | 8 | 8 | 8 | 9 | 3 | 3 | 5 | 5 | 7 | 4 | 4 | 4 | 6 | 6 | 7 | 1 | 0 | 1 | 7 | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 0 | 2 | 0 | 4 | 3 | 4 | 2 | 5 | 0 | 4 | 5 | 5 | 2 | 4 | 1 | 7 | 1 | 2 | 4 | 2 | 3 | 1 | 4 | 7 | 3 | 1 | 1 | 6 | 1 | 2 | 5 | | | |
| | 9 | 1 | 2 | 9 | 7 | 1 | 3 | 0 | 2 | 5 | 4 | 1 | 6 | 8 | 1 | 4 | 0 | 1 | 1 | 2 | 6 | 0 | 3 | 5 | 2 | 5 | 9 | 7 | 2 | 5 | 5 | | | | |

Follicular Cel, Carcinoma

General Body System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|--|--|---|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Tissue NOS | A | + | | | + | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Genital System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | M | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland
Carcinoma | M | + | A | + | | | | | + | + | M | M | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Prostate | M | + | A | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle | M | + | M | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | M | + | + | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstit Cell, Adenoma | | X | X | X | | | | | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | |

Hematopoietic System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | + | + | + | + | | | | | + | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bronchial, Pheochromocytoma Malignant,
Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | M | + | M | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:49

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|
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| Lymph Node, Mesenteric | + | M | | + | | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Spleen | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | M | M | M | + | | + | + | M | M | + | M | M | M | + | + | + | + | + | + | + | + | + | M | M | + | M | M | + | + | + | M |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | + | + | | + | M | + | M | + | + | M | + | + | + | M | M | M | M | M | + | + | + | M | M | M | M | M | M | M | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Skin | + | M | + | + | | + | M | M | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | M | M | + | + | + | + | + | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sebaceous GI, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | + | + | + | + | | + | M | + | + | + | + | + | + | + | + | M | + | + | | M | + | + | + | M | M | + | + | M | + | + | |
| Nervous System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:49

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | *TOTALS | |
|-------------|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
| | F 344/N Rat Male
10 MG/M3 12 MO | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 51 |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 52 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 52 |
| | 3 | 4 | 4 | 6 | 6 | 3 | 4 | 5 | 6 | 7 | 0 | 0 | 1 | 2 | 6 | 7 | 7 | 53 |
| | 2 | 0 | 6 | 5 | 7 | 8 | 9 | 8 | 8 | 7 | 4 | 6 | 2 | 7 | 6 | 8 | 8 | 63 |

Alimentary System

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | | | | | | | | 60 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | | | | | | | | 51 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | | | | | | | | 52 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | | | | | | | | 53 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | | | | | | | | 55 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | | | | | | | | 52 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | | | | | | | | 53 |
| Liver | + | + | + | + | + | + | + | + | + | + | | | | | | | | 63 |
| Adenoma | | | | | | | | | | X | | | | | | | | 1 |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | X | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | | | | | | | | 58 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | | | | | | | | 51 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | | | | | | | | 63 |
| Fibroma | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | | | | | | | | 60 |
| Tongue | | | | | | | | | | | | | | | | | | 4 |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | 1 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|
| Heart | + | + | + | + | + | + | + | + | + | + | | | | | | | | 63 |
|-------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:49

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 12 MO

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 4 | 4 | 6 | 6 | 3 | 4 | 5 | 6 | 7 | 0 | 0 | 1 | 2 | 6 | 7 |
| | 2 | 0 | 6 | 5 | 7 | 8 | 9 | 8 | 8 | 7 | 4 | 6 | 2 | 7 | 6 | 8 |
| | *TOTALS | | | | | | | | | | | | | | | |

Endocrine System

| | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|
| Adrenal Gland | | | | | | | | | | | | | | | | | 0 |
| Adrenal Gland, Cortex | + | + | + | + | + | + | + | + | + | + | | | | | | | 63 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Adrenal Gland, Medulla | + | + | + | + | + | + | + | + | + | + | | | | | | | 60 |
| Bilateral, Pheochromocytoma Nos | | | | X | | | | | | | | | | | | | 5 |
| Pheochromocytoma Malignant | | | | | | | | | | X | | | | | | | 3 |
| Pheochromocytoma Nos | | | | | X | | | | | | | | | | | | 13 |
| Pheochromocytoma Nos, Multiple | X | | | | | X | | | | | | | | | | | 2 |
| Islets, Pancreatic | | | | | + | | | | | | | | | | | | 8 |
| Adenoma | | | | | X | | | | | | | | | | | | 5 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | 52 |
| Adenoma | | | | | | | | | | | | | | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | 56 |
| Adenoma | | | | X | | X | | | | X | | | | | | | 29 |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | 52 |
| C Cell, Adenoma | | | | | | | | | X | | | | | | | | 3 |
| C Cell, Carcinoma | | | | | | | | | | | | | | | | | 2 |
| Follicular Cel, Adenoma | | | | | | | | | X | | | | | | | | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:49

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 12 MO

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 3 | 4 | 4 | 6 | 6 | 3 | 4 | 5 | 6 | 7 | 0 | 0 | 1 | 2 | 6 | 7 | |
| | 2 | 0 | 6 | 5 | 7 | 8 | 9 | 8 | 8 | 7 | 4 | 6 | 2 | 7 | 6 | 8 | *TOTALS |
| Follicular Cel, Carcinoma | | | | | | X | | | | X | | | | | | | 2 |

General Body System

| | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | + | | | | | | | | | | | | 7 |
| Fibroma | | | | | | | | | | | | | | | | | 1 |
| Fibrosarcoma | | | | | | X | | | | | | | | | | | 1 |
| Sarcoma | | | | | | | | | | | | | | | | | 1 |

Genital System

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | | | | | | | 65 |
| Penis | | | | | | | | | | | | | | | | | 1 |
| Preputial Gland | + | + | + | M | M | M | M | M | + | + | | | | | | | 45 |
| Carcinoma | | | | | | | | | | | | | | | | | 1 |
| Prostate | + | + | + | + | + | + | + | + | + | + | | | | | | | 62 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | | | | | | | 61 |
| Testes | + | + | + | + | + | + | + | + | + | + | | | | | | | 65 |
| Interstit Cell, Adenoma | X | | | X | X | X | X | X | X | X | | | | | | | 44 |

Hematopoietic System

| | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | | | | | | | 59 |
| Lymph Node | + | + | + | + | + | + | + | + | + | + | | | | | | | 56 |
| Bronchial, Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | | | | | | | 52 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|
| | 0
7
8
7 | 0
7
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7 | 0
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7 | 0
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7 | 0
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7 | 0
7
8
7 | 0
7
8
7 | |
| ANIMAL ID | 0
0
3
3
2 | 0
0
3
4
0 | 0
0
3
4
6 | 0
0
3
6
5 | 0
0
3
6
7 | 0
0
3
3
8 | 0
0
3
4
9 | 0
0
3
5
8 | 0
0
3
6
8 | 0
0
3
7
8 | 0
0
3
0
4 | 0
0
3
0
6 | 0
0
3
1
2 | 0
0
3
2
7 | 0
0
3
6
6 | 0
0
3
7
8 | |
| Lymph Node, Mesenteric | + | | + | + | + | + | + | + | + | + | | | | | | 48 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | | | | | | 64 | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | 1 | |
| Pheochromocytoma Nos, Metastatic, Adrenal Gland | | | | | | | | | | X | | | | | | 1 | |
| Thymus | + | M | M | + | M | + | + | + | + | M | | | | | | 36 | |
| Integumentary System | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | | | | | | 36 | |
| Adenoma | | | | | X | | | | | | | | | | | 1 | |
| Fibroadenoma | | | | | | | | | | | | | | | | 1 | |
| Skin | + | + | + | + | + | + | + | + | + | + | | | | | | 55 | |
| Keratoacanthoma | | | | | | | | | | | | | | | | 3 | |
| Papilloma | | | | | | | | | | | | | | | | 1 | |
| Sebaceous GI, Adenoma | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | 1 | |
| Musculoskeletal System | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | | | | | | 61 | |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | | | | | | 55 | |
| Nervous System | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | | | | | | 61 | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 344/N Rat Male
10 MG/M3 12 MO | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 4 | 4 | 6 | 6 | 3 | 4 | 5 | 6 | 7 | 0 | 0 | 1 | 2 | 6 | 7 |
| | | 2 | 0 | 6 | 5 | 7 | 8 | 9 | 8 | 8 | 7 | 4 | 6 | 2 | 7 | 6 | 8 |
| | | *TOTALS | | | | | | | | | | | | | | | |

Respiratory System

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|
| Larynx | + | + | + | + | + | + | + | + | + | + | | | | | | | | 50 |
| Lung | + | + | + | + | + | + | + | + | + | + | | | | | | | | 54 |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | 1 |
| Carcinosarcoma | | | | | | | | | | | | | | | | | | 1 |
| Osteosarcoma, Metastatic, Tissue Nos | | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Gland | | | | | | | | | | | | | | | | | | 1 |
| Squamous Cell Carcinoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | | | | | | | | 60 |
| Trachea | + | + | + | + | + | + | + | + | + | + | | | | | | | | 52 |

Special Senses System

| | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|
| Eye | + | + | + | + | + | + | + | + | + | + | | | | | | | | 65 |
| Carcinoma, Metastatic, Zymbal'S Gland | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | M | + | + | M | + | M | M | + | M | | | | | | | | 46 |
| Lacrimal Gland | + | + | + | + | + | + | + | + | + | + | | | | | | | | 60 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | 1 |

Urinary System

| | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | | | | | | | | 62 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | | | | | | | | 63 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

F 344/N Rat Male
10 MG/M3 12 MO

| | | | | | | | | | | | | | | | | | |
|-------------|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 4 | 4 | 6 | 6 | 3 | 4 | 5 | 6 | 7 | 0 | 0 | 1 | 2 | 6 | 7 | 7 |
| | 2 | 0 | 6 | 5 | 7 | 8 | 9 | 8 | 8 | 7 | 4 | 6 | 2 | 7 | 6 | 8 | 8 |
| | *TOTALS | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 67 |
| Leukemia Mononuclear | X | X | X | | | | | | X | | X | | | | | | | 37 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 7 | 5 | 6 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 9 | 7 | 0 | 5 | 5 | 5 | 3 | 6 | 6 | 0 | 4 | 7 | 7 | 0 | 8 | 8 | 5 | 6 | 9 | 9 | 6 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 6 | 7 | 7 | 7 | 0 | 5 | 2 | 5 | 6 | 1 | 4 | 4 | 2 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 7 | 5 | 2 | 6 | 3 | |
| | 4 | 0 | 9 | 0 | 2 | 5 | 3 | 2 | 5 | 4 | 0 | 2 | 7 | 9 | 4 | 9 | 0 | 1 | 5 | 2 | 8 | 4 | 3 | 0 | 6 | 3 | 8 | 5 | 7 | |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | M | + | M | M | M | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | M | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | M | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | M | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | M | + | + | A | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | M | M | M | M | M | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Submucosa, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Heart | M | M | M | M | + | M | + | + | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Endocrine System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 7 | 5 | 6 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 9 | 7 | 0 | 5 | 5 | 5 | 3 | 6 | 6 | 0 | 4 | 7 | 7 | 0 | 8 | 8 | 5 | 6 | 6 | 6 | 9 | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | |
| | 1 | 2 | 6 | 7 | 7 | 7 | 0 | 5 | 2 | 5 | 6 | 1 | 4 | 4 | 2 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 7 | 5 | 2 | 6 | 3 | | | | | | | | | |
| | 4 | 0 | 9 | 0 | 2 | 5 | 3 | 2 | 5 | 4 | 0 | 2 | 7 | 9 | 4 | 9 | 0 | 1 | 4 | 5 | 6 | 8 | 4 | 3 | 0 | 6 | 3 | 8 | 5 | 7 | | | | | | | | |
| Adrenal Gland, Cortex | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Medulla | + | + | M | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | M | M | M | M | M | M | + | + | | | | + | I | + | + | + | M | + | + | | | | + | + | + | + | + | M | + | + | + | + | + | + | + | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | M | M | M | A | + | + | I | + | | | | + | M | I | + | + | + | + | + | | | | + | + | + | I | + | M | + | + | + | + | + | + | M | | | |
| Adenoma | | | | | | | X | X | | | | X | | | | | X | X | X | | | | X | X | X | | X | | | | | | | | | | | |
| Thyroid Gland | M | M | M | M | M | M | + | + | | | | + | + | + | + | + | A | + | + | | | | + | + | + | + | + | M | + | + | + | + | + | + | + | | | |
| Follicular Cel, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General Body System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Genital System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 7 | 5 | 6 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 9 | 7 | 0 | 5 | 5 | 5 | 3 | 6 | 6 | 0 | 4 | 7 | 0 | 0 | 2 | 8 | 8 | 5 | 6 | 9 | 9 | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | |
| | 1 | 2 | 6 | 7 | 7 | 7 | 0 | 5 | 2 | 5 | 6 | 1 | 4 | 4 | 2 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 7 | 5 | 2 | 6 | 3 | 2 | | | | | | | |
| | 4 | 0 | 9 | 0 | 2 | 5 | 3 | 2 | 5 | 4 | 0 | 2 | 7 | 9 | 4 | 9 | 0 | 1 | 5 | 2 | 8 | 4 | 3 | 0 | 6 | 3 | 8 | 5 | 7 | 6 | 9 | | | | | | |
| Epididymis | + | + | + | + | + | + | + | | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | + | + | + | | | | |
| Preputial Gland | + | + | + | M | + | + | M | + | | | | + | + | M | + | + | + | + | M | | | | + | M | + | M | M | M | + | + | + | + | + | + | | | |
| Prostate | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | + | + | + | + | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | + | + | + | + | | | |
| Testes | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | + | + | + | + | | | |
| Bilateral, Interstit Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstit Cell, Adenoma | | | | | | | | | | | | | | | | X | | | | | | | | | | | X | | | | X | | | X | | | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | + | + | + | + | | | |
| Lymph Node | M | M | M | M | M | M | + | + | | | | + | + | + | + | + | + | + | | | | | + | + | + | + | + | M | + | + | M | + | + | + | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | + | + | | | | + | M | M | + | + | + | + | | | | | M | + | + | + | + | M | M | M | + | M | + | + | | | |
| Lymph Node, Mesenteric | M | M | + | + | + | + | M | + | | | | + | + | + | + | M | + | + | M | | | | + | M | M | + | + | M | + | + | M | + | + | + | | | |
| Spleen | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | M | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | M | M | M | M | M | M | + | + | | | | M | M | M | M | + | + | + | + | | | | + | + | M | + | + | M | M | + | + | + | + | + | + | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | + | + | M | + | M | M | M | | | | + | M | + | M | M | M | M | | | | | M | M | M | M | + | M | M | M | + | M | M | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | | | | | + | M | M | + | + | M | + | + | + | + | + | + | + | + | |
| Dermis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| F 344/N Rat Male | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| 10 MG/M3ASBESTOS | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 7 | 5 | 6 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 7 | 9 | 7 | 0 | 5 | 5 | 5 | 3 | 6 | 6 | 0 | 4 | 7 | 7 | 0 | 8 | 8 | 5 | 6 | 9 | 9 | 6 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 6 | 7 | 7 | 7 | 0 | 5 | 2 | 5 | 6 | 1 | 4 | 4 | 2 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 7 | 5 | 2 | 6 | 3 | 2 | |
| | 4 | 0 | 9 | 0 | 2 | 5 | 3 | 2 | 5 | 4 | 0 | 2 | 7 | 9 | 4 | 9 | 0 | 1 | 5 | 2 | 8 | 4 | 3 | 0 | 6 | 3 | 8 | 5 | 7 | 9 | 6 |

Keratoacanthoma

X

Sarcoma

Musculoskeletal System

Bone

+ M + + + + +

Osteoma

X

Osteosarcoma

Skeletal Muscle

+ + + + + + + + + M + + + + + + + + + M M M + M + + + + +

Rhabdomyosarcoma

X

Nervous System

Brain

+ + A + + + + + + + + + + + + + + + M + + + + +

Fibrous Histiocytoma

Respiratory System

Larynx

M M M M M M + + + + + + + + + + + + + + + M + + + + +

Lung

M M M M M M + + + + + + + + + + + + + + + M + + + + +

Alveolar/Bronchiolar Adenoma

X

X

Alveolar/Bronchiolar Adenoma, Multiple

Alveolar/Bronchiolar Carcinoma

X

X

Alveolar/Bronchiolar Carcinoma, Multiple

Bronchiole, Carcinoma

Osteosarcoma, Metastatic, Bone

Sarcoma, Metastatic, Skin

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F 344/N Rat Male | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 10 MG/M3ASBESTOS | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 4 | 7 | 5 | 6 | 6 | 6 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 9 | 7 | 0 | 5 | 5 | 5 | 3 | 6 | 6 | 0 | 4 | 7 | 7 | 0 | 8 | 8 | 5 | 6 | 9 | 9 | 6 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 2 | 6 | 7 | 7 | 7 | 7 | 0 | 5 | 2 | 5 | 6 | 1 | 4 | 4 | 2 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 7 | 5 | 2 | 6 | 3 | |
| | 4 | 0 | 9 | 0 | 2 | 5 | 3 | 2 | 5 | 4 | 0 | 2 | 7 | 9 | 4 | 9 | 0 | 1 | 5 | 2 | 8 | 4 | 3 | 0 | 6 | 3 | 8 | 5 | 7 | 6 | |
| Nose | M | M | M | + | M | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Trachea | M | M | M | M | M | M | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Harderian Gland | + | M | M | + | M | + | M | + | | | | M | + | + | M | M | M | + | M | | | | | M | M | + | + | + | + | M | |
| Lacrimal Gland | M | M | M | + | M | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | X | | X | X | | | | | X | | | X | | X | | | X | X | |
| Mesothelioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:51

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F 344/N Rat Male | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 10 MG/M3ASBESTOS | 6 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 |
| | 1 | 2 | 1 | 1 | 5 | 2 | 6 | 9 | 9 | 6 | 9 | 0 | 0 | 2 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 3 | 3 | 7 | 7 | 4 | 1 | 7 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 3 | 6 | 4 | 7 | 6 | 1 | 0 | 0 | 7 | 4 | 7 | 6 | 6 | 1 | 4 | 5 | 0 | 1 | 1 | 3 | 7 | 3 | 3 | 4 | 2 | 5 | 3 | 1 | 0 |
| | 2 | 1 | 8 | 4 | 2 | 3 | 2 | 1 | 3 | 4 | 8 | 3 | 6 | 0 | 0 | 7 | 9 | 1 | 8 | 4 | 6 | 8 | 3 | 7 | 5 | 1 | 6 | 4 | 7 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | M | M | + | + | + | + | M | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | A | + | A | A | A | + | + | A | + | + | A | + | + | A | + | + | + | + | + | A | M | + | A | + | + | + | + | + | |
| Intestine Large, Colon | + | A | + | A | A | + | + | + | A | + | + | A | + | + | A | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |
| Adenocarcinoma | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | A | A | A | + | + | A | + | + | A | + | + | A | + | + | + | + | + | M | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | A | + | A | A | A | + | + | A | + | + | + | + | + | A | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | A | + | A | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | A | + | A | A | A | + | + | A | + | + | + | + | + | A | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | |
| Hepatocyte, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | A | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | | | | + | + | + | |
| Acinar Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | M | + | | M | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |
| Submucosa, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | A | + | + | + | + | + | + | |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Endocrine System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

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CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| ANIMAL ID | 6 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 1 | 2 | 1 | 1 | 5 | 2 | 6 | 9 | 9 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 3 | 6 | 4 | 7 | 6 | 1 | 0 | 0 | 7 | 4 | 7 | 6 | 6 | 1 | 4 | 5 | 0 | 1 | 1 | 3 | 7 | 3 | 3 | 4 | 2 | 5 | 3 | 1 | 0 | 1 | 2 | |
| | 2 | 1 | 8 | 4 | 4 | 3 | 2 | 1 | 3 | 4 | 8 | 3 | 6 | 0 | 0 | 7 | 9 | 1 | 8 | 4 | 6 | 8 | 3 | 3 | 7 | 5 | 1 | 6 | 4 | 7 | 3 | |
| Adrenal Gland, Cortex | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | | |
| Adenoma | | | | | X | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Gland, Medulla | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | X | | X | | | | | | | | | | | | | | | | | X | | | X | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign | | | X | | | X | | | X | | X | | X | | | | | | X | X | X | | | | | | | | | | X | |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | | | | | | + | | | + | | + | | | | + | | | | | | | | | | | + | + | | | | |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | X | X | | | | |
| Carcinoma | | | | | | X | | | | X | | | | | | X | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | + | | M | + | + | + | + | + | + | + | + | + | M | + | M | M | M | M | M | + | + | M | + | M | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | | + | | + | + | + | + | + | + | M | + | + | + | + | I | + | + | I | + | + | + | M | + | + | + | + | + | + | + | + | |
| Adenoma | X | | | | X | X | | X | X | X | | X | X | X | X | | X | X | | X | X | X | | X | X | X | X | X | X | X | | |
| Thyroid Gland | + | | + | | M | + | + | + | + | + | + | + | + | + | M | A | M | M | M | M | M | + | + | M | + | M | + | + | + | + | | |
| Follicular Cel, Adenoma | | | X | | | | | | | | X | | | X | | | | | | | | | | | | | | | | | | |
| General Body System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Genital System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 1 | 1 | 5 | 2 | 6 | 9 | 9 | 6 | 9 | 0 | 0 | 2 | 7 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 3 | 6 | 4 | 7 | 6 | 1 | 0 | 0 | 7 | 4 | 7 | 6 | 6 | 1 | 4 | 5 | 0 | 1 | 1 | 3 | 7 | 3 | 3 | 4 | 2 | 5 | 3 | 1 | 0 | 1 | 0 | 1 | 2 | |
| 2 | 1 | 8 | 4 | 2 | 3 | 2 | 1 | 3 | 4 | 8 | 3 | 6 | 0 | 0 | 7 | 1 | 8 | 4 | 4 | 6 | 8 | 3 | 3 | 7 | 5 | 1 | 6 | 4 | 7 | 7 | 3 | | |
| Epididymis | + | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Preputial Gland | + | M | + | M | + | M | + | + | + | + | + | + | + | M | + | + | + | + | M | M | + | M | + | + | + | + | + | M | + | M | | | |
| Prostate | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Seminal Vesicle | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bilateral, Interstit Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstit Cell, Adenoma | | X | | | | | X | | | X | | X | X | X | X | X | X | X | X | | X | | | X | | X | X | X | | | | | |
| Hematopoietic System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | | |
| Lymph Node | + | + | + | + | + | + | + | + | M | M | + | + | M | + | + | M | M | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mandibular | M | + | M | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric | + | + | + | M | M | M | + | M | + | M | + | + | + | + | + | M | + | + | + | M | M | M | + | + | M | M | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | M | M | + | M | M | M | + | + | + | M | M | M | + | M | M | + | M | + | + | M | + | M | M | + | + | M | + | M | + | | |
| Integumentary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | M | M | M | M | M | + | + | M | M | M | + | M | + | + | M | M | M | M | M | M | M | M | M | + | M | M | + | + | | |
| Fibrosarcoma | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | M | + | M | + | + | + | + | + | + | + | |
| Dermis, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosarcoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | X |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

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|-------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| F 344/N Rat Male | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 10 MG/M3ASBESTOS | 6 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 1 | 1 | 5 | 2 | 6 | 9 | 9 | 6 | 9 | 0 | 0 | 2 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 3 | 3 | 7 | 4 | 1 | 7 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 3 | 6 | 4 | 7 | 6 | 1 | 0 | 0 | 7 | 4 | 7 | 6 | 6 | 1 | 4 | 5 | 0 | 1 | 1 | 3 | 7 | 3 | 3 | 4 | 2 | 5 | 3 | 1 | 0 | 1 | |
| | 2 | 1 | 8 | 4 | 2 | 3 | 2 | 1 | 3 | 4 | 8 | 3 | 6 | 0 | 0 | 7 | 9 | 1 | 8 | 4 | 7 | 6 | 8 | 3 | 7 | 5 | 1 | 6 | 4 | 7 | 3 |

Keratoacanthoma

X X

Sarcoma

X

Musculoskeletal System

Bone

+ M + + + + +

Osteoma

Osteosarcoma

Skeletal Muscle

+ + + + + + + + + + + M + + + + + + + + M M M M + M + + +

Rhabdomyosarcoma

Nervous System

Brain

+ M + + + + + + +

Fibrous Histiocytoma

X

Respiratory System

Larynx

+ + + M + + + + + + + + M + + M M M M + + M + + + + + + +

Lung

+ + + + + + + + + + + + M + + M M M M + + M + + + + + + +

Alveolar/Bronchiolar Adenoma

X X

Alveolar/Bronchiolar Adenoma, Multiple

X X

Alveolar/Bronchiolar Carcinoma

X X X X

X X

Alveolar/Bronchiolar Carcinoma, Multiple

X

Bronchiole, Carcinoma

Osteosarcoma, Metastatic, Bone

Sarcoma, Metastatic, Skin

X

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 1 | 2 | 1 | 1 | 5 | 2 | 6 | 9 | 9 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nose | + | | A | | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Trachea | + | | + | | + | + | + | + | + | + | + | + | + | M | M | + | M | M | M | M | M | + | + | M | + | + | + | + | + | |
| Special Senses System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | + | | + | + | + | A | M | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | | + | | + | + | + | + | M | + | + | + | + | M | M | + | M | M | M | M | M | + | M | M | + | + | + | M | M | M |
| Lacrimal Gland | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Urinary System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Urinary Bladder | + | | + | | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | X | | X | X | X | | | X | X | X | X | X | | X | | X | X | X | X | | | | | X | | X | | X |
| Mesothelioma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | *TOTALS | | |
|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 |
| 2 | 4 | 4 | 5 | 0 | 0 | 5 | 5 | 2 | 3 | 0 | 0 | 2 | 6 | 7 | 5 | 5 | 5 | 5 | 5 |
| 9 | 2 | 6 | 9 | 6 | 8 | 6 | 8 | 2 | 5 | 5 | 7 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 1 |

Alimentary System

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 56 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 53 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 54 |
| Adenocarcinoma | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 56 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 56 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | | | | | | | | | A | 55 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | | | | | | | | | A | 53 |
| Liver | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 63 |
| Hepatocyte, Adenoma | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | | + | + | + | + | + | + | + | + | | | | | | | | | + | 54 |
| Acinar Cell, Adenoma | | | | | | | | | | X | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | | | | | | | | | M | 47 |
| Sarcoma | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 63 |
| Submucosa, Adenoma | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 61 |

Cardiovascular System

| | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | | | | | | | | | + | 60 |
|-------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|---|----|

Endocrine System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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| ANIMAL ID | 0
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8 | 0
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6 | 0
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8 | 0
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8 | 0
0
4
2
2 | 0
0
4
3
5 | 0
0
4
0
7 | 0
0
4
0
1 | 0
0
4
2
7 | 0
0
4
6
1 | 0
0
4
7
1 | 0
4
1
5
1 |
| Adrenal Gland, Cortex | + | + | + | + | + | + | + | + | + | + | | | | | | M | 63 |
| Adenoma | | | | | | | | | | | | | | | | | 2 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | X | | | | | | | | 1 |
| Adrenal Gland, Medulla | + | + | + | + | + | + | + | + | + | + | | | | | | M | 61 |
| Bilateral, Pheochromocytoma Benign | | | | X | | | | | | X | | | | | | | 6 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | X | | | | | | | | 1 |
| Pheochromocytoma Benign | X | | X | | X | | | | | X | | | | | | | 14 |
| Pheochromocytoma Benign, Multiple | | | | | | | | | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | X | | | | | | | | | | | | 1 |
| Islets, Pancreatic | | + | | | | | | | | | | | | | | | 8 |
| Adenoma | | | | | | | | | | | | | | | | | 4 |
| Carcinoma | | | X | | | | | | | | | | | | | | 5 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | | | | | | + | 50 |
| Adenoma | | | | | | X | | | | | | | | | | | 2 |
| Pituitary Gland | + | + | M | + | + | + | + | + | + | + | | | | | | M | 51 |
| Adenoma | | | X | | | | | | X | X | X | | | | | | 37 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | | | | | + | 50 |
| Follicular Cel, Adenoma | | | | X | | | | | | | | | | | | | 4 |
| General Body System | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | + | | | | | | | 3 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | X | | | | | | | | 1 |
| Genital System | | | | | | | | | | | | | | | | | |

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | | | | | | | | | | | | | | | | *TOTALS |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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| ANIMAL ID | 0
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9 | 0
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4 | 0
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4 | 0
0
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4
4 | 0
0
4
4
4 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 65 |
| Preputial Gland | M | M | M | + | M | + | M | M | + | + | | | | | M | | 43 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 65 |
| Seminal Vesicle | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 64 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 64 |
| Bilateral, Interstit Cell, Adenoma | | | X | | | | | | | | | | | | | | 1 |
| Interstit Cell, Adenoma | X | | | X | X | | X | X | X | | | | | | | | 22 |
| Hematopoietic System | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 64 |
| Lymph Node | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | 51 |
| Lymph Node, Mandibular | + | + | + | + | | + | + | + | + | + | + | + | + | + | M | + | 45 |
| Lymph Node, Mesenteric | + | + | + | + | | + | M | + | M | M | | | | | + | + | 43 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 65 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | X | | | | | | | 1 |
| Thymus | + | + | M | M | + | + | M | + | + | M | | | | | + | + | 35 |
| Integumentary System | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | + | M | M | + | M | M | + | + | | | | | M | | 22 |
| Fibrosarcoma | | | | | | | | | | | | | | | | | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 59 |
| Dermis, Adenoma | | | | | | | | | | | | | | | | | 1 |
| Fibroma | | | | | | | | | | | | | | | | | 1 |
| Fibrosarcoma | | | | | | | | | | | | | | | | | 3 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| DAY ON TEST | F 344/N Rat Male
10 MG/M3ASBESTOS | | | | | | | | | | | | | | | | *TOTALS |
|--|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | |
| ANIMAL ID | 00429 | 00426 | 00446 | 00445 | 00444 | 00443 | 00442 | 00441 | 00440 | 00439 | 00438 | 00437 | 00436 | 00435 | 00434 | 00433 | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | 3 |
| Sarcoma | | | | | | | | | | | | | | | | | 1 |
| Musculoskeletal System | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | | | | | | | 64 |
| Osteoma | | | | | | | | | | | | | | | | | 1 |
| Osteosarcoma | | | | | | | | | | X | | | | | | | 1 |
| Skeletal Muscle | + | + | + | + | + | + | + | + | + | + | | | | | | | 56 |
| Rhabdomyosarcoma | | | | | | | | | | | | | | | | | 1 |
| Nervous System | | | | | | | | | | | | | | | | | |
| Brain | + | + | M | + | + | + | + | + | + | + | | | | | | | 63 |
| Fibrous Histiocytoma | | | | | | | | | | | | | | | | | 1 |
| Respiratory System | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | | | | | | | 53 |
| Lung | + | + | + | + | + | + | + | + | + | + | | | | | | | 54 |
| Alveolar/Bronchiolar Adenoma | | | | X | X | | | | X | X | | | | | | | 10 |
| Alveolar/Bronchiolar Adenoma, Multiple | | | | | | | | | | X | | | | | | | 1 |
| Alveolar/Bronchiolar Carcinoma | | | | | | | | | | | | | | | | | 9 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | | 1 |
| Bronchiole, Carcinoma | | | | | X | | | | | | | | | | | | 1 |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | X | | | | | | | | 1 |
| Sarcoma, Metastatic, Skin | | | | | | | | | | | | | | | | | 1 |

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:32:53

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHROP

| F 344/N Rat Male
10 MG/M3ASBESTOS | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 4 | 4 | 4 | 4 | 4 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | | |
| | 2 | 4 | 4 | 5 | 0 | 0 | 5 | 5 | 2 | 3 | 0 | 0 | 2 | 6 | 7 | 5 | | |
| | 9 | 2 | 6 | 9 | 6 | 8 | 6 | 8 | 2 | 5 | 5 | 7 | 1 | 7 | 1 | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 58 |
| Trachea | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 53 |
| Special Senses System | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 62 |
| Harderian Gland | M | M | M | M | + | + | + | M | + | M | | | | | | + | | 34 |
| Lacrimal Gland | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 61 |
| Urinary System | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 65 |
| Sarcoma | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 65 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | | | | | | + | | 67 |
| Leukemia Mononuclear | X | | X | X | X | X | | | | X | | | | | | X | | 33 |
| Mesothelioma Benign | | X | | | | | | | | | | | | | | | | 1 |

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05083-01

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Wollastonite calcium silicates

CAS Number: 13983-17-0

Date Report Requested: 10/23/2014

Time Report Requested: 12:32:53

First Dose M/F: NA / NA

Lab: NORTHROP

**** END OF REPORT ****

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

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