

**Experiment Number:** 05083-01

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P07: 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:** 12:33:28

**First Dose M/F:** NA / NA

**Lab:** NORTHROP

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

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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	7	6	7	4	7	7	7	6	7	3	7	7	0	7	5	7	7	6	7	7	6	6	5	0	3	5	7	0	3	0	7
CONTROL	3	3	8	6	3	8	2	8	2	7	1	8	9	1	6	2	7	3	5	2	8	0	3	9	7	4	3	9	7	0	
	7	5	7	6	8	7	9	1	2	3	0	7	3	6	5	4	3	4	4	6	8	0	4	3	3	9	2	3	3	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	
	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	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Alimentary System

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

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

M ..Missing tissue  
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BLANK ..Not examined microscopically

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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		
<b>F 344/N Rat Male</b>	7	6	7	4	7	7	7	6	7	3	7	7	0	7	5	7	7	6	7	7	6	6	5	0	3	5	7	0	3	0	7
<b>CONTROL</b>	3	3	8	6	3	8	2	8	2	7	1	8	9	1	6	2	7	3	5	2	8	0	3	9	7	4	3	9	7	9	0
	7	5	7	6	8	7	9	1	2	3	0	7	3	6	5	4	3	4	4	6	8	0	4	3	3	9	2	3	3	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
	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	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	8
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

Tongue																																	
<b>Cardiovascular System</b>																																	
Heart	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	
<b>Endocrine System</b>																																	
Adrenal Gland																																	
Adrenal Gland, Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																																	
Adrenal Gland, Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign					X	X		X						X	X												X						
Islets, Pancreatic	+				+																												
Adenoma					X																												
Carcinoma																																	
Parathyroid Gland	M	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma													X																				
Carcinoma																																	
Pituitary Gland	+	+	+	I	I	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	
Pars Distalis, Adenoma	X	X	X				X		X	X	X		X	X	X		X	X	X		X	X											
Thyroid Gland	+	+	+	+	M	+	+	+	M	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C Cell, Adenoma																																	
C Cell, Carcinoma	X																																

**General Body System**

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

+ ..Tissue examined microscopically

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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	6	7	4	7	7	7	6	7	3	7	7	0	7	5	7	7	6	7	7	6	6	5	0	3	5	7	0	3	0	7
CONTROL	3	3	8	6	3	8	2	8	2	7	1	8	9	1	6	2	7	3	5	2	8	0	3	9	7	4	3	9	7	0	
	7	5	7	6	8	7	9	1	2	3	0	7	3	6	5	4	3	4	4	6	8	0	4	3	3	9	2	3	3	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	
	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	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Tissue NOS																															
Carcinoma																															
Fibrosarcoma																															
Hemangiosarcoma																															
Lipoma																															
<b>Genital System</b>																															
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	M	+	+	+	+	+	+	+	+	M	+	+	+	M	+	M	+	M	+	M	+	M	+	M	+	M	+	M	+	M	
Carcinoma																															
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Interstit Cell, Adenoma	X		X			X	X	X									X		X	X						X	X				
<b>Hematopoietic System</b>																															
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	
Bronchial, Carcinoma, Metastatic, Parathyroid Gland																															
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	
Carcinoma, Metastatic, Zymbal'S Gland																															
Lymph Node, Mesenteric	M	M	M	+	M	M	M	+	M	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Fibrous Histiocytoma, Metastatic, Skin																															

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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	
	ANIMAL ID	7	6	7	4	7	7	7	6	7	3	7	7	0	7	5	7	7	6	7	6	6	5	0	3	5	7	0	3	0	7
		3	3	8	6	3	8	2	8	2	7	1	8	9	1	6	2	7	3	5	2	8	0	3	9	7	4	3	9	7	0
		7	5	7	6	8	7	9	1	2	3	0	7	3	6	5	4	3	4	4	6	8	0	4	3	3	9	2	3	3	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
		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	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	1
		1	2	3	4	5	6	7	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus		M	M	+	M	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	
<b>Integumentary System</b>																															
Mammary Gland		+	+	+	+	M	M	M	+	M	+	M	M	+	M	M	M	M	+	+	M	M	M	M	M	M	M	M	M	M	
Skin		+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma																															
Keratoacanthoma												X																			
Subcut Tiss, Lipoma																															
Trichoepithelioma					X																										
<b>Musculoskeletal System</b>																															
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Skin																															
Skeletal Muscle		+	M	+	+	+	M	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Skin																															
<b>Nervous System</b>																															
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																															
Oligodendroglioma Benign																															
Brain, Brain Stem					+																										
<b>Respiratory System</b>																															
Larynx		M	+	+	M	M	M	+	+	M	M	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	

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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		
	7	6	7	4	7	7	7	6	7	3	7	7	0	7	5	7	7	6	7	6	6	5	0	3	5	7	0	3	0	7	
ANIMAL ID		3	3	8	6	3	8	2	8	2	7	1	8	9	1	6	2	7	3	5	2	8	0	3	9	7	4	3	9	0	
		7	5	7	6	8	7	9	1	2	3	0	7	3	6	5	4	3	4	4	6	8	0	4	3	3	9	2	3	3	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
		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	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3
		1	2	3	4	5	6	7	8	0	1	1	3	4	5	6	7	8	9	0	1	2	2	3	4	5	6	7	8	9	0
Larynx	M	+	+	M	M	M	+		+	M	M	+	A	+		+	+	+	+	+	+	+	+	+	M	+	+		M		
Lung	M	+	+	+	M	+	+		+	M	+	+	+	+		+	+	+	+	+	+	+	+	+	M	+	+		M		
Squamous Cell Carcinoma																															
Nose	+	+	+	+	+	+	+		+	M	+	+	A	+		+	+	+	+	+	+	+	M	M	+	+		+			
Fibrosarcoma																															
Trachea	M	+	+	+	M	+	+		+	M	+	+	+	+		+	+	+	+	+	+	+	+	M	+	+		M			
<b>Special Senses System</b>																															
Eye	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	M	+	+	+		+			
Harderian Gland	M	+	M	+	M	+	+		+	M	+	M	+	+		M	+	+	+	+	+	+	M	M	+	M		M			
Lacrimal Gland	+	+	+	+	+	+	+		+	M	+	+	A	+		+	+	+	+	+	+	+	M	M	+	+		+			
<b>Urinary System</b>																															
Kidney	+	+	+	+	+	+	+		+	+	+	+	A	+		+	+	+	+	+	+	+	+	+	+	+	+		+		
Sarcoma																															
Urinary Bladder	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	M	+	+	+	+		+		
Transit Epithe, Papilloma																															
<b>SYSTEMIC LESIONS</b>																															
Multiple Organ	+	+	+	+	+	+	+		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+		+		
Leukemia Mononuclear	X		X	X	X	X	X		X		X					X		X	X			X			X	X					
Mesothelioma Benign																															
Mesothelioma Malignant	X						X					X																			

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Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:30

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

Alimentary System

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

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:30

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

Tongue																																
<b>Cardiovascular System</b>																																
Heart		+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Endocrine System</b>																																
Adrenal Gland																																
Adrenal Gland, Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																																
Adrenal Gland, Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pheochromocytoma Benign					X				X	X	X				X	X		X													X	
Islets, Pancreatic						+			+								+															
Adenoma									X													X										
Carcinoma						X																										
Parathyroid Gland		+	M	+	+	M	+	+	+	+	+	M	+	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma																																
Carcinoma																																
Pituitary Gland		+	+	+	+	M	+	+	+	+	+	M	+	+	+	I	+	I	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Adenoma		X							X		X	X		X		X		X			X											
Thyroid Gland		+	M	+	+	M	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C Cell, Adenoma																																
C Cell, Carcinoma																																

**General Body System**

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue  
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Experiment Number: 05083-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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Time Report Requested: 12:33:30

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					
F 344/N Rat Male CONTROL	ANIMAL ID	5	7	5	6	7	7	6	7	7	7	6	3	7	3	7	7	7	7	7	0	6	5	7	6	7	0	4	6	7	6			
		1	3	2	8	3	2	1	8	2	3	0	7	8	7	3	8	4	1	4	4	9	5	8	2	5	4	9	6	8	8	1		
		6	8	6	2	8	9	4	7	6	0	0	3	7	3	8	8	5	2	5	3	3	3	6	6	6	6	3	3	4	8	8	0	
Tissue NOS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Carcinoma		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Fibrosarcoma		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		
Hemangiosarcoma		3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	6	6	6
Lipoma		2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	

Tissue NOS															+																				
Carcinoma															X																				
Fibrosarcoma																																			
Hemangiosarcoma																																			
Lipoma															X																				
<b>Genital System</b>																																			
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	
Preputial Gland	M	M	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	A	M	+	M	M	+	M	+	M	M	
Carcinoma																																			
Prostate	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Testes	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Interstit Cell, Adenoma																																			
		X		X	X	X	X		X			X		X	X				X		X		X		X		X		X						
<b>Hematopoietic System</b>																																			
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	
Lymph Node	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bronchial, Carcinoma, Metastatic, Parathyroid Gland																																			
Lymph Node, Mandibular	+	+	+	+	M	+	M	+	M	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma, Metastatic, Zymbal'S Gland																																			
Lymph Node, Mesenteric	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrous Histiocytoma, Metastatic, Skin																																			

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

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Experiment Number: 05083-01

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:30

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

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
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Date Report Requested: 10/23/2014

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Time Report Requested: 12:33:31

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		
ANIMAL ID	5	7	5	6	7	7	6	7	7	7	6	3	7	3	7	7	7	7	7	0	6	5	7	6	7	0	4	6	7	6	
	1	3	2	8	3	2	1	8	2	3	0	7	8	7	3	8	4	1	4	4	9	5	8	2	5	4	9	6	8	8	1
	6	8	6	2	8	9	4	7	6	0	0	3	7	3	8	8	5	2	5	3	3	3	6	6	3	3	4	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	
	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	
	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
Larynx	+	M	+	+	M	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lung	+	M	+	+	M	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Squamous Cell Carcinoma				X																											
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosarcoma												X																			
Trachea	+	M	+	+	M	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Special Senses System</b>																															
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	M	+	+	M	+	+	M	+	+	+	M	M	+	M	M	M	+	+	+	+	+	+	M	+	+	+	+	+		
Lacrimal Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Urinary System</b>																															
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Sarcoma																															
Urinary Bladder	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transit Epithe, Papilloma																															
<b>SYSTEMIC LESIONS</b>																															
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear	X	X	X	X	X	X							X		X		X	X	X	X		X	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  
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Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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	*TOTALS
		7	6	6	5	6	7	7	5	3	5	7	4	6	6	6	
		3	0	7	5	7	0	6	8	7	6	5	9	2	5	8	
		7	0	3	1	4	5	1	2	3	8	4	9	5	3	1	
	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	
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	
		3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	

Alimentary System

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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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	
	7	6	6	5	6	7	7	5	3	5	7	4	6	6	6	6	
	3	0	7	5	7	0	6	8	7	6	5	9	2	5	8	9	
	7	0	3	1	4	5	1	2	3	8	4	9	5	3	1	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	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
3	4	5	6	6	7	8	9	0	1	2	3	4	5	6	7	8	
Tissue NOS				+													7
Carcinoma																	1
Fibrosarcoma				X													1
Hemangiosarcoma																	1
Lipoma																	1
<b>Genital System</b>																	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	67
Preputial Gland	+	+	+	M	+	+	+	+	+	+	+	M	M	+	+	+	45
Carcinoma																X	1
Prostate	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	62
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	66
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	66
Interstit Cell, Adenoma	X		X		X	X	X		X					X	X		32
<b>Hematopoietic System</b>																	
Bone Marrow	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	66
Lymph Node	M	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	59
Bronchial, Carcinoma, Metastatic, Parathyroid Gland								X									1
Lymph Node, Mandibular	+	+	+	M	M	+	+	+	M	+	+	M	M	M		M	52
Carcinoma, Metastatic, Zymbal'S Gland																	1
Lymph Node, Mesenteric	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	54
Fibrous Histiocytoma, Metastatic, Skin																	1

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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	*TOTALS
	ANIMAL ID	7	6	6	5	6	7	7	5	3	5	7	4	6	6	6	
		3	0	7	5	7	0	6	8	7	6	5	9	2	5	8	
		7	0	3	1	4	5	1	2	3	8	4	9	5	3	1	
		0	0	0	0	0	0	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	
		6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	
		3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	67
Thymus		M	+	+	M	M	+	+	M	M	M	+	+	+	+	+	46
<b>Integumentary System</b>																	
Mammary Gland		+	M	+	+	M	+	M	+	M	M	+	+	M	+	M	29
Skin		+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	56
Fibrous Histiocytoma																	1
Keratoacanthoma																	1
Subcut Tiss, Lipoma																	1
Trichoepithelioma																	1
<b>Musculoskeletal System</b>																	
Bone		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	67
Fibrous Histiocytoma, Metastatic, Skin																	1
Skeletal Muscle		+	+	+	+	+	+	+	+	M	M	+	M	M	+	+	48
Fibrous Histiocytoma, Metastatic, Skin																	1
<b>Nervous System</b>																	
Brain		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	66
Adenoma									X								1
Oligodendroglioma Benign							X										1
Brain, Brain Stem																	1
<b>Respiratory System</b>																	
Larynx		M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	52

\* ..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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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	*TOTALS
		7	6	6	5	6	7	7	5	3	5	7	4	6	6	6	
		3	0	7	5	7	0	6	8	7	6	5	9	2	5	8	
		7	0	3	1	4	5	1	2	3	8	4	9	5	3	1	
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	
	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
Larynx	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	52	
Lung	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	56	
Squamous Cell Carcinoma																1	
Nose		+	+	+	+	+	+	+	M	+	+	+	+	+	+	63	
Fibrosarcoma																1	
Trachea	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	56	
<b>Special Senses System</b>																	
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	66	
Harderian Gland	M	+	M	+	+	M	+	M	M	M	M	+	+	M	+	39	
Lacrimal Gland		+	+	+	+	+	+	+	M	+	+	+	+	+	+	63	
<b>Urinary System</b>																	
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	65	
Sarcoma														X		1	
Urinary Bladder		+	+	+	+	I	+	+	+	+	+	+	M	+	+	62	
Transit Epithe, Papilloma																1	
<b>SYSTEMIC LESIONS</b>																	
Multiple Organ		+	+	+	+	+	+	+	+	+	+	+	+	+	+	68	
Leukemia Mononuclear			X	X	X	X			X		X	X		X		40	
Mesothelioma Benign																1	
Mesothelioma Malignant																4	

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:31

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

Alimentary System

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

Cardiovascular System

Heart	+	+	+		+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:32

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	0
F 344/N Rat Male	4	7	7	0	4	7	7	7	7	6	7	4	6	0	5	6	5	6	7	3	3	7	7	7	4	0	7	7	3	6	6
10 MG/M3 24 MO	2	3	8	9	7	3	8	3	8	2	3	3	4	9	1	6	2	1	0	7	7	2	3	2	2	9	0	3	7	2	4
	2	7	8	4	9	7	7	7	8	7	1	9	4	5	9	7	7	3	4	4	6	7	6	2	4	0	7	4	3	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

Endocrine System

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

General Body System

Tissue NOS	+				+		+																			+			+	+		
Fibroma	X						X																									
Fibrosarcoma					X																											X

Genital System

Epididymis	+	+	+		+	+	+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
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\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:32

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	4	7	7	0	4	7	7	7	7	6	7	4	6	0	5	6	5	6	7	3	3	7	7	7	4	0	7	7	3	6	6
10 MG/M3 24 MO	2	3	8	9	7	3	8	3	8	2	3	3	4	9	1	6	2	1	0	7	7	2	3	2	2	9	0	3	7	2	4
	2	7	8	4	9	7	7	7	8	7	1	9	4	5	9	7	7	3	4	4	6	6	2	2	4	0	7	4	3	6	

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

Hematopoietic System

Bone Marrow	+	+	+		+	+	+			+	+				+					+	+			+	+			+	+	+	
Lymph Node	+	+	M		M	M	M	+	M	M	M	+			+	+	+	+	+	M	+	+	+	+	+		+	+	+	+	
Lymph Node, Mandibular	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
Spleen	+	+	+		+	+	+	+	M	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+		+		+	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	+
Skin		+	+		+	+	+	+	+	+		+	+	+		+	+	+		+	+	+	+	+	+	+	+	+	+	+	+
Fibroma												X																			
Fibrosarcoma																															
Keratoacanthoma																															
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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:32

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	4	7	7	0	4	7	7	7	7	6	7	4	6	0	5	6	5	6	7	3	3	7	7	7	4	0	7	7	3	6	6
10 MG/M3 24 MO	2	3	8	9	7	3	8	3	8	2	3	3	4	9	1	6	2	1	0	7	7	2	3	2	2	9	0	3	7	2	4
	2	7	8	4	9	7	7	7	8	7	1	9	4	5	9	7	7	3	4	4	6	7	6	2	4	0	7	4	3	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

Musculoskeletal System

Bone	+	+	+		+	+	+	+	+	+	+		+	+	+		+	+	+	+	+	+	+		+	+	+	+		
Skeletal Muscle	+	M	+		M	+	+	+	+	M	M	+		M	+	M	+	M	+	M	+	+	+	+		M	+	+	+	+

Nervous System

Brain	+	+	+		+	+	+	+	+	+	+	+		+	+	+	+	+	M	+	+	+	+	+		+	+	+	+	+	
Brain, Cerebrum																															
Medulloblastoma Nos																															

Respiratory System

Larynx	+	+	+		+	M	+	M	+	+		+	+	+	+	+	M	M	+	M	+	+		M	+	M	+	+			
Carcinoma, Metastatic, Thyroid Gland																															
Lung	+	+			+	M	+	M	+	+	M	+	+		+	+	+	+	+	M	M		M	+	+		+	+	M	+	+
Alveolar/Bronchiolar Carcinoma																															
Nose	+	+	+		+	+	+	+	+	+	+	+		+	+	+		+	+	+	+	+	+		+	+	+		+		
Septum, Polyp											X																				
Trachea	+	+	+		+	M	+	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
Lacrimal Gland	+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:33

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	0	0	0	0	0	0	0	0	0	0	0	0	0		
		4	7	7	0	4	7	7	7	7	6	7	4	6	0	5	6	5	6	7	3	3	7	7	7	4	0	7	7	3	6	6
		2	3	8	9	7	3	8	3	8	2	3	3	4	9	1	6	2	1	0	7	7	2	3	2	2	9	0	3	7	2	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	
	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	1	1	1	1		
	0	0	0	0	0	0	0	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	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	2	3	3	
Kidney	+	+	+		+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+		
Urethra			+					+																								
Urinary Bladder	+			+	+	+	+	+	+	+	+	+		+	+	+	+	M	+	+	+	+		+		+	M	+	+	+		
<b>SYSTEMIC LESIONS</b>																																
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear				X	X			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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:33

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

Alimentary System

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

Cardiovascular System

Heart	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
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\* ..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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:33

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	0	0	0	0
	<b>F 344/N Rat Male 10 MG/M3 24 MO</b>	6	6	4	6	7	7	7	6	3	6	7	7	7	0	6	7	0	6	2	0	6	5	7	6	3	7	7	7	7	7	7	4
	0	5	2	6	5	8	3	2	7	8	1	8	1	9	2	8	9	4	2	9	1	6	3	4	7	8	3	6	8	8	7		
	3	5	2	8	1	7	6	7	4	1	6	8	5	4	3	7	4	9	3	4	2	9	7	9	4	8	7	5	7	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	
	2	3	4	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	3	5	6	7	8	9	0	1	2	3	4		

**Endocrine System**

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

**General Body System**

Tissue NOS Fibroma																																		
Fibrosarcoma					+										A									+										

**Genital System**

Epididymis	+	+	+	+	+	+	+	+	+	+		+	+		A	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+
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 + ..Tissue examined microscopically  
 X ..Lesion present  
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Experiment Number: 05083-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:33

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

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

Hematopoietic System

Bone Marrow	+			+			+	A	+	+	+	+						+		+		+	+	+	+	+	+	+	+	+	
Lymph Node	+	+	+	+	+	+	+	M	+	+	+	+	+		+	+		M	+		M	+	M	+	+	+	M	+	+	+	
Lymph Node, Mandibular	+	+	+	+	+	+	+	M	M	+	+	+	+		+	+		+	+		+	+	+	+	M	+	+	+	+	+	
Lymph Node, Mesenteric	M	+	M	+	M	M	+	M	M	M	+			+	M	M	+	+	M	+	M		M	M	M	M	M	+	M	M	+
Spleen	+	+	+	+	+	+	+	+		+	+	+	+		+	+		+	A		+	+	+	+	+	+	+	+	+	+	+
Thymus	M	+	M	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																															
Squamous Cell Carcinoma																								X							
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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:33

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

**Musculoskeletal System**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+

**Nervous System**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum																															
Medulloblastoma Nos																															

**Respiratory System**

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

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	M	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Harderian Gland	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ANIMAL ID	6	6	4	6	7	7	7	6	3	6	7	7	7	0	6	7	0	6	2	0	6	5	7	6	3	7	7	7	7	4	
		0	5	2	6	5	8	3	2	7	8	1	8	1	9	2	8	9	4	2	9	1	6	3	4	7	8	3	6	8	8	7
		3	5	2	8	1	7	6	7	4	1	6	8	5	4	3	7	4	9	3	4	2	9	7	9	4	8	7	5	7	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	
		3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	
		2	3	4	5	6	7	8	9	0	2	3	4	5	6	7	8	9	0	1	2	3	5	6	7	8	9	0	1	2	3	4
Kidney			+	+	+	+	+	+	A	+	+		+	+		A	+		+			+	+	+	+	+	+	+	+	+	+	+
Urethra																																
Urinary Bladder			+	+	+	+	+	+	A	+	+		+			A	+		+			+	+	+	+	+		+	+	+	+	+
<b>SYSTEMIC LESIONS</b>																																
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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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
		6	6	6	7	6	7	5	3	7	6	7	6	5	4	5	7
		5	2	8	8	6	2	7	7	8	8	8	0	6	2	6	6
		5	7	3	7	9	4	4	7	2	7	8	1	2	6	6	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	1	1	1
		1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	4
		6	6	6	6	6	7	7	7	7	7	7	7	7	7	1	1
		5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	2
		*TOTALS															

Alimentary System

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

Cardiovascular System

Heart	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	66
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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
	6	6	6	7	6	7	5	3	7	6	7	6	5	4	5	7
	5	2	8	8	6	2	7	7	8	8	8	0	6	2	6	6
	5	7	3	7	9	4	4	4	7	2	7	8	1	2	6	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	1	1
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4
	6	6	6	6	6	7	7	7	7	7	7	7	7	7	1	1
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	2
	*TOTALS															

Endocrine System

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

General Body System

Tissue NOS										+							9
Fibroma																	3
Fibrosarcoma										X							3

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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	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	1	1	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	
	6	6	6	6	6	7	7	7	7	7	7	7	7	7	1	1	
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	2	
Penis										+						2	
Preputial Gland		M	M	+		M	+	+	M	+	M	+	M	+	M	31	
Prostate	+	M	+	+	+	A	+	+	+	+	+	+	M	+	+	64	
Seminal Vesicle	+	+	+	+		A	+	+	+	+	+	+	M		+	59	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	65	
Interstit Cell, Adenoma				X	X	X			X		X		X		X	28	
<b>Hematopoietic System</b>																	
Bone Marrow	+	+			+		+	+	+	+			+	M	+	44	
Lymph Node	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	57	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	64	
Lymph Node, Mesenteric	+	M	M	+	M	+	M	+	+	+		M		M	+	27	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	67	
Thymus	M	M	+	+	M	M	+	M	+	+	+	+	+	M	M	37	
Thymoma Nos																1	
<b>Integumentary System</b>																	
Mammary Gland	M	+	+	+		M	M	M		M	+	+	+	M	+	29	
Skin	+	+		+	+	+	+	+	+	+	+	+	+	M	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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																*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	7	6	7	5	3	7	6	7	6	5	4	5	7	
	5	2	8	8	6	2	7	7	8	8	8	0	6	2	6	6	
	5	7	3	7	9	4	4	4	7	2	7	8	1	2	6	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	1	1	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	
	6	6	6	6	6	7	7	7	7	7	7	7	7	7	1	1	
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	2	

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	67
Skeletal Muscle	+	+		+	+	+	+	+	+	+	+	+	+	M	M	+	56

Nervous System

Brain	+	+	+	+	+			+	+	+	+	+	+	+	+	+	68
Brain, Cerebrum								+									1
Medulloblastoma Nos								X									1

Respiratory System

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

Special Senses System

Eye	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	66
Harderian Gland					M		M	+	+		M	M	M	+	M		16
Lacrimal Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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	
	6	6	6	7	6	7	5	3	7	6	7	6	5	4	5	7	
	5	2	8	8	6	2	7	7	8	8	8	0	6	2	6	6	
	5	7	3	7	9	4	4	4	7	2	7	8	1	2	6	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	1	1	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	
	6	6	6	6	6	7	7	7	7	7	7	7	7	7	1	1	
	5	6	7	8	9	0	1	2	3	4	5	6	7	8	1	2	<b>*TOTALS</b>
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	66
Urethra																	2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		+	+	M	+	+	60
<b>SYSTEMIC LESIONS</b>																	
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	78
Leukemia Mononuclear	X					X					X	X			X	X	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:34

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	6	6	0	7	0	5	4	7	5	7	0	7	7	7	6	7	5	7	7	7	7	5	6	7	7	0	7	3	7	7
10 MG/M3 12 MO	2	2	8	9	3	9	8	2	2	6	4	9	5	4	8	9	7	0	6	3	4	2	7	9	8	4	9	3	7	4	2
	2	1	3	3	8	3	6	1	4	1	5	3	4	3	1	0	1	4	7	7	5	3	7	1	7	7	3	9	3	7	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	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
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

Alimentary System

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

Cardiovascular System

Heart	+	+	+		+		+		+		+		+	+	+	+	+	+	+	+	+		+	+	+		+	M	+	+
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\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:35

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

Endocrine System

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:36

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																																
	07	06	06	00	07	00	05	04	07	05	07	00	07	07	07	06	07	05	07	07	07	00	05	06	07	07	00	07	03	07	07		
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
Lymph Node, Mesenteric	M	M	+		+		+		+		+		+		+		+		+		+		+		+		+		+				
Spleen	+	+	+		+		+		+		+		+		+		+		+		+		+		+		+		+		+		
Pheochromocytoma Malignant, Metastatic, Adrenal Gland																															X		
Pheochromocytoma Nos, Metastatic, Adrenal Gland																																	
Thymus	M	+	+		+		+		+		+		M	+	+	M	+	+	M	M	+	M		+	M	+		+	M	+	+		
<b>Integumentary System</b>																																	
Mammary Gland	M	+	+		+		M		+		M		+	M	M	M	M	M	M	+	M	+		M	M	+		+	M	+	+		
Adenoma																																	
Fibroadenoma																																X	
Skin	M	+	+		+		+		+		+		+	M	+	+	+	+	+	+	+	M	+	+		+	+	+		+	M	+	+
Keratoacanthoma																																	X
Papilloma							X																										
Sebaceous GI, Adenoma																																	X
Squamous Cell Carcinoma																X																	
Squamous Cell Papilloma																																	X
<b>Musculoskeletal System</b>																																	
Bone	+	M	+		+		+		+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle	+				+		+		+		+		+	M	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																																	
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  
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Experiment Number: 05083-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:36

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	6	6	0	7	0	5	4	7	5	7	0	7	7	7	6	7	5	7	7	7	7	5	6	7	7	0	7	3	7	7
10 MG/M3 12 MO	2	2	8	9	3	9	8	2	2	6	4	9	5	4	8	9	7	0	6	3	4	2	7	9	8	4	9	3	7	4	2
	2	1	3	3	8	3	6	1	4	1	5	3	4	3	1	0	1	4	7	7	5	3	7	1	7	7	3	9	3	7	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	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
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1

Respiratory System

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

Special Senses System

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

Urinary System

Kidney	+	+	+		+	+	+	+		+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urinary Bladder	A	+	+		+	+	+	+		+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* ..Total animals with tissue examined microscopically; Total animals with tumor  
+ ..Tissue examined microscopically  
X ..Lesion present  
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Experiment Number: 05083-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:36

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

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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:36

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

**Alimentary System**

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

**Cardiovascular System**

Heart	+	+	+	+	+	+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:36

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 13983-17-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NORTHPROP

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

Endocrine System

Adrenal Gland

Adrenal Gland, Cortex

Adenoma

Adrenal Gland, Medulla

Bilateral, Pheochromocytoma Nos

Pheochromocytoma Malignant

Pheochromocytoma Nos

Pheochromocytoma Nos, Multiple

Islets, Pancreatic

Adenoma

Carcinoma

Parathyroid Gland

Adenoma

Pituitary Gland

Adenoma

Carcinoma, Metastatic, Zymbal'S Gland

Pars Distalis, Adenoma

Thyroid Gland

C Cell, Adenoma

C Cell, Carcinoma

Follicular Cel, Adenoma

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:37

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				
ANIMAL ID	7	6	6	7	6	5	7	3	7	7	7	7	7	7	7	6	7	3	7	7	6	6	7	7	3	7	6	3	6	7			
	8	9	3	6	9	8	8	6	8	3	4	3	3	5	8	2	0	8	7	3	3	2	2	1	3	7	8	5	7	6	8		
	7	6	4	6	0	6	8	1	7	9	5	3	8	4	7	6	7	8	3	8	7	5	7	2	8	3	8	2	3	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		
	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	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6		
	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2			
Lymph Node, Mesenteric	+	M	+	M	M		+	+		+	+	+	M	+	+		+	+	M	+	M	+	+	+	+	M	+	A	+	+	+		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	
Pheochromocytoma Malignant, Metastatic, Adrenal Gland																																	
Pheochromocytoma Nos, Metastatic, Adrenal Gland																																	
Thymus	+	M	M	M	M	M	+	A	M	+	+	+	M	M	M		+	+	M	M	M	+	+	+	M	M	+	M	M	+	+		
<b>Integumentary System</b>																																	
Mammary Gland	+	+	+	M	+	+	+	+	+	+	M	M	+	M	+		+	+	M	M	M	M	M	M	+	M	+	M	M	+	M		
Adenoma																																	
Fibroadenoma																																	
Skin	+	+	+	+	+	M	+	+	+	+	M	M	+	M	+		+	+	+	+	+	M	M	+	+	+	+	+	M	+	+	+	
Keratoacanthoma																																	
Papilloma																																	
Sebaceous GI, Adenoma																																	
Squamous Cell Carcinoma																																	
Squamous Cell Papilloma																																	
<b>Musculoskeletal System</b>																																	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	M	+	+	+	M	+	+	M	+	+	M	+	+		
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	M	M	+	M	+		+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	
<b>Nervous System</b>																																	
Brain	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+		+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:37

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	6	6	7	6	5	7	3	7	7	7	7	7	7	7	6	7	3	7	7	6	6	7	7	3	7	6	3	6	7	
10 MG/M3 12 MO	8	9	3	6	9	8	8	6	8	3	4	3	3	5	8	2	0	8	7	3	3	2	2	1	3	7	8	5	7	6	8
	7	6	4	6	0	6	8	1	7	9	5	3	8	4	7	6	7	8	3	8	7	5	7	2	8	3	8	2	3	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
	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	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2

Respiratory System

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

Special Senses System

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

Urinary System

Kidney	+	+	+	+	+	+	+	A	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	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

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P07: 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: 12:33:37

First Dose M/F: NA / NA

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

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:37

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
		3	5	7	0	7	7	7	7	6	7	6	3	5	6	7	0
		7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9
		3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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
		6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
		3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
		*TOTALS															

Alimentary System

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

Cardiovascular System

Heart	M	+	+		+	+	+	+	+	+		+	+	+	+		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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:38

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
		3	5	7	0	7	7	7	7	6	7	6	3	5	6	7	0
		7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9
		3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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
		6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7
		3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
		*TOTALS															

Endocrine System

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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:38

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	
	3	5	7	0	7	7	7	7	6	7	6	3	5	6	7	0	
	7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9	
	3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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	
	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	<b>*TOTALS</b>
Follicular Cel, Carcinoma															X		2

**General Body System**

Tissue NOS																	+	7
Fibroma																		1
Fibrosarcoma																	X	1
Sarcoma																		1

**Genital System**

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

**Hematopoietic System**

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:38

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	5	7	0	7	7	7	7	6	7	6	3	5	6	7	0	
	7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9	
	3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
Lymph Node, Mesenteric	M	+	+		+	+	+	+		+	+	+	+				
Spleen	+	+	+		+	+	+	+	+		+	+	+	+			
Pheochromocytoma Malignant, Metastatic, Adrenal Gland																	
Pheochromocytoma Nos, Metastatic, Adrenal Gland							X										
Thymus	M	+	+		M	+	M	+	M	+		+	+	M	M		
<b>Integumentary System</b>																	
Mammary Gland	M	+	+		+	+	M	M	+	M		+	+	+	+		
Adenoma						X											
Fibroadenoma																	
Skin	+	+	+		+	+	+	+	+	M		+	+	+	+		
Keratoacanthoma																	
Papilloma																	
Sebaceous GI, Adenoma																	
Squamous Cell Carcinoma																	
Squamous Cell Papilloma																	
<b>Musculoskeletal System</b>																	
Bone	+	+	+		+	+	+	+	+			+	+	+	+		
Skeletal Muscle	+	+	+		+	+	+	+	+	M		+	+	+	+		
<b>Nervous System</b>																	
Brain	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:38

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	
F 344/N Rat Male	3	5	7	0	7	7	7	7	6	7	6	3	5	6	7	0	
10 MG/M3 12 MO	7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9	
	3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	

Respiratory System

Larynx	M	+	+		+	+	+	+	+		M	+	+	+		50
Lung	M	+	+		+	+	+	+	+		M	+	+	+		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	M	+	+		+	+	+	+	+		+	+	+	+		60
Trachea	M	+	+		+	+	+	+	+		M	+	+	+		52

Special Senses System

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

Urinary System

Kidney	+	+	+		+	+	M	+	+	+		+	+	+	+	62
Urinary Bladder	+	+	+		+	+	M	+	+	+		+	+	+	+	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:38

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
	3	5	7	0	7	7	7	6	7	6	3	5	6	7	0		
	7	1	8	9	8	8	1	4	9	5	7	7	9	4	8	9	
	3	4	7	3	7	8	6	3	1	4	4	3	1	1	8	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
	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
	*TOTALS																

SYSTEMIC LESIONS

Multiple Organ	+	+	+		+	+	+	+	+	+		+	+	+	+		67
Leukemia Mononuclear	X						X	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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:39

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																														
	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719	0719		
ANIMAL ID	00401	00402	00403	00404	00405	00406	00407	00408	00409	00410	00411	00412	00413	00414	00415	00416	00417	00418	00419	00420	00421	00422	00423	00424	00425	00426	00427	00428	00429		
Adrenal Gland, Cortex	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma																															
Osteosarcoma, Metastatic, Bone																															
Adrenal Gland, Medulla	+	+	+	M		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Bilateral, Pheochromocytoma Benign	X																														
Osteosarcoma, Metastatic, Bone																															
Pheochromocytoma Benign						X						X				X				X	X							X			
Pheochromocytoma Benign, Multiple																															
Pheochromocytoma Malignant						X																									
Islets, Pancreatic		+									+					+														+	
Adenoma																														X	
Carcinoma																															
Parathyroid Gland	+	+	+	+		+		+	+	+	M	+	M	M	+	+	M	+	M		+	+	+		+	+	+	+	M	+	+
Adenoma											X		X																		
Pituitary Gland	+	+	I	+		+		+	I	+	+	+	+	+	M	+	+	+	+	M		+	+	+		M	+	+	+	+	+
Adenoma																															
Thyroid Gland	+	+	+	+		+		+	A	+	M	+	M	M	+	+	M	+	M		+	+	+		+	+	+	+	A	+	+
Follicular Cel, Adenoma																															
<b>General Body System</b>																															
Tissue NOS																															
Osteosarcoma, Metastatic, Bone																															

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:39

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	3	7	0	7	0	7	7	7	7	5	7	3	7	7	7	5	3	0	7	7	5	4	6	7	6	7	5	7	6
10 MG/M3ASBESTOS	1	1	8	8	9	8	9	8	3	3	3	6	1	7	8	8	3	9	7	9	8	8	4	5	4	4	8	9	5	6	
	9	6	7	7	4	8	4	8	8	2	8	5	2	4	1	7	8	6	4	4	9	8	7	3	9	9	7	9	7	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	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	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	6	7	8	9	0	1	2	2	3	4	5	6	7	8	9	0	

Keratoacanthoma

X

Sarcoma

Musculoskeletal System

Bone

+ +

Osteoma

X

Osteosarcoma

Skeletal Muscle

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

Rhabdomyosarcoma

X

Nervous System

Brain

+ +

Fibrous Histiocytoma

X

Respiratory System

Larynx

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

Lung

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

Alveolar/Bronchiolar Adenoma

X X X X X

Alveolar/Bronchiolar Adenoma, Multiple

X

Alveolar/Bronchiolar Carcinoma

X X X X X X

Alveolar/Bronchiolar Carcinoma, Multiple

X

Bronchiole, Carcinoma

X

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:40

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 | 6         | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 | 6 |
| 10 MG/M3ASBESTOS | 2         | 3 | 8 | 3 | 5 | 4 | 5 | 3 | 0 | 8 | 4 | 2 | 0 | 8 | 6 | 9 | 6 | 2 | 0 | 4 | 7 | 4 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 3 | 1 |
|                  | 8         | 8 | 9 | 9 | 6 | 3 | 6 | 7 | 0 | 7 | 3 | 6 | 4 | 7 | 5 | 1 | 5 | 8 | 7 | 6 | 7 | 7 | 8 | 7 | 8 | 7 | 0 | 2 | 5 | 0 | 0 |
|                  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
|                  | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
|                  | 3         | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

Alimentary System

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

Cardiovascular System

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:40

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<br>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                            | 6           | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 | 6 |   |  |  |
|                                      | 2           | 3 | 8 | 3 | 5 | 4 | 5 | 3 | 0 | 8 | 4 | 2 | 0 | 8 | 6 | 9 | 6 | 2 | 0 | 4 | 7 | 4 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 3 | 1 |   |  |  |
|                                      | 8           | 8 | 9 | 9 | 6 | 3 | 6 | 7 | 0 | 7 | 3 | 6 | 4 | 7 | 5 | 1 | 5 | 8 | 7 | 6 | 7 | 7 | 8 | 7 | 8 | 7 | 0 | 2 | 5 | 0 | 0 |   |  |  |
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 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 |   |  |  |
|                                      | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |   |  |  |
|                                      | 3           | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |  |  |
| Adrenal Gland, Cortex                | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | M | + | + | + | + | + |   |   |   |   |   |   |   |   |  |  |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |  |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Adrenal Gland, Medulla               | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | M | + | + | + | + | + |   |   |   |   |   |   |   |   |  |  |
| Bilateral, Pheochromocytoma Benign   |             |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Pheochromocytoma Benign              | X           | X |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Pheochromocytoma Benign, Multiple    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Pheochromocytoma Malignant           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Islets, Pancreatic                   |             |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Carcinoma                            |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Parathyroid Gland                    | +           | M | + | + | + | + | + | + | + | + | M | + | + | + | I | + | + | + | M | M | + | M | + | + |   |   |   |   |   |   |   |   |  |  |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Pituitary Gland                      | +           | I | + | + | + | + | + | + | + | + | M | + | + | M | M | + | I | I | M |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Adenoma                              | X           |   | X | X |   | X | X | X | X | X |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Thyroid Gland                        | +           | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | M | + | M | + | + |   |   |   |   |   |   |   |   |  |  |
| Follicular Cel, Adenoma              |             |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>General Body System</b>           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Tissue NOS                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | A |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| <b>Genital System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:40

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<br>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           | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 | 6 |
|                                      | 2           | 3 | 8 | 3 | 5 | 4 | 5 | 3 | 0 | 8 | 4 | 2 | 0 | 8 | 6 | 9 | 6 | 2 | 0 | 4 | 7 | 4 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 3 | 1 |
| 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 |   |
| 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                                    | 3           | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |   |
| 3                                    | 4           | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |
| Epididymis                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   | + | + | + |   |
| Preputial Gland                      | +           | + | + | M | + | + | + | + | + | M | M | + | M | M | + | M | M | M | M | M | + | M | M | M | + |   | + | + | M |   |   |
| Prostate                             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   | + | + | + |   |
| Seminal Vesicle                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + |   | + | + | + |   |
| Testes                               | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   | A | + | + |   |
| Bilateral, Interstit Cell, Adenoma   |             |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Interstit Cell, Adenoma              |             |   | X |   |   | X |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   | X | X | X | X | X |   |   |   | X |   |
| <b>Hematopoietic System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                          | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   | + | + | + |   |
| Lymph Node                           | +           | + | + | + | 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 | M |   |
| Spleen                               | +           | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |   | + | + | + |   |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Thymus                               | M           | + | M | + | + | + | + | M | + | + | M | M | + | M | M | + | M | + | M | + | M | + | M | + | M |   | M | + | + |   |   |
| <b>Integumentary System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mammary Gland                        | 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 | + | + | + | + | + | + | + | + | + | 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

Experiment Number: 05083-01

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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         | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 6 |   |
| 10 MG/M3ASBESTOS | 2         | 3 | 8 | 3 | 5 | 4 | 5 | 3 | 0 | 8 | 4 | 2 | 0 | 8 | 6 | 9 | 6 | 2 | 0 | 4 | 7 | 4 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 3 | 1 |
|                  | 8         | 8 | 9 | 9 | 6 | 3 | 6 | 7 | 0 | 7 | 3 | 6 | 4 | 7 | 5 | 1 | 5 | 8 | 7 | 6 | 7 | 7 | 8 | 7 | 8 | 7 | 0 | 2 | 5 | 0 | 0 |
|                  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                  | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
|                  | 3         | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
|                  | 3         | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

Keratoacanthoma

X

Sarcoma

Musculoskeletal System

Bone

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

Osteoma

Osteosarcoma

X

Skeletal Muscle

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

Rhabdomyosarcoma

Nervous System

Brain

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

Fibrous Histiocytoma

Respiratory System

Larynx

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

Lung

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

Alveolar/Bronchiolar Adenoma

X X X X X X

Alveolar/Bronchiolar Adenoma, Multiple

Alveolar/Bronchiolar Carcinoma

X X

Alveolar/Bronchiolar Carcinoma, Multiple

Bronchiole, Carcinoma

Osteosarcoma, Metastatic, Bone

X

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>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           | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 0 | 6 | 7 | 7 |
| ANIMAL ID                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2                                    | 3           | 8 | 3 | 5 | 4 | 5 | 3 | 0 | 8 | 4 | 2 | 0 | 8 | 6 | 9 | 6 | 2 | 0 | 4 | 7 | 4 | 8 | 3 | 8 | 8 | 5 | 8 | 0 | 3 | 1 |
| 8                                    | 8           | 9 | 9 | 6 | 3 | 6 | 7 | 0 | 7 | 3 | 6 | 4 | 7 | 5 | 1 | 5 | 8 | 7 | 6 | 7 | 7 | 8 | 7 | 8 | 7 | 0 | 2 | 5 | 0 | 0 |
| 0                                    | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0                                    | 0           | 0 | 0 | 0 | 0 | 0 | 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 |
| 3                                    | 3           | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| 3                                    | 4           | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| Nose                                 | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | A | + | + | M | + | + | + | + | + |   |   |   |   |   |   |
| Trachea                              | +           | M | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | M | + | + | M | + | + |   |   |   |   |   |   |
| <b>Special Senses System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye                                  | +           | + | + | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + | M | + | + | + | + | + |   |   |   |   |   |   |
| Harderian Gland                      | +           | M | M | M | + | + | + | M | + | M | M | + | M | M | + | + | + | + | M | + | + | + | M | M |   |   |   |   |   |   |
| Lacrimal Gland                       | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + |   |   |   |   |   |   |
| <b>Urinary System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                               | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + |   |   |   |   |   |   |
| Sarcoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   |   |   |   |   |   |
| <b>SYSTEMIC LESIONS</b>              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Multiple Organ                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   |   |   |
| Leukemia Mononuclear                 |             | X |   | X | X |   |   |   |   |   |   | X |   | X | X | X |   | X | X | X | X | X | X |   |   |   |   |   |   |   |
| Mesothelioma Benign                  |             |   |   |   |   |   |   |   |   |   | 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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>10 MG/M3ASBESTOS | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                      |             | 6 | 7 | 0 | 6 | 3 | 3 | 0 | 3 | 7 | 7 | 3 | 6 | 7 | 7 | 0 |
|                                      | 4           | 3 | 9 | 0 | 7 | 7 | 9 | 7 | 1 | 0 | 7 | 3 | 3 | 2 | 9 | 8 |
|                                      | 9           | 0 | 4 | 7 | 4 | 4 | 4 | 4 | 9 | 1 | 4 | 5 | 8 | 9 | 4 | 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 | 4 | 4 |
|                                      | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 |
|                                      | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 |
|                                      | 5           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 |
|                                      | *TOTALS     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Alimentary System

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

Cardiovascular System

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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>10 MG/M3ASBESTOS | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                      | 6           | 7 | 0 | 6 | 3 | 3 | 0 | 3 | 7 | 7 | 3 | 6 | 7 | 7 | 0 | 3 |         |
|                                      | 4           | 3 | 9 | 0 | 7 | 7 | 9 | 7 | 1 | 0 | 7 | 3 | 3 | 2 | 9 | 8 |         |
|                                      | 9           | 0 | 4 | 7 | 4 | 4 | 4 | 4 | 9 | 1 | 4 | 5 | 8 | 9 | 4 | 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 | 4 | 4 |         |
|                                      | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 |         |
|                                      | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 |         |
|                                      | 5           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 |         |
| Adrenal Gland, Cortex                | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | M | + |         |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Adrenal Gland, Medulla               | +           | + |   | + | M | + |   | + | + |   | + | + | + | + | M | + |         |
| Bilateral, Pheochromocytoma Benign   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Pheochromocytoma Benign              |             |   | X |   |   |   |   | X |   |   |   | X | X |   |   |   |         |
| Pheochromocytoma Benign, Multiple    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Pheochromocytoma Malignant           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Islets, Pancreatic                   |             | + |   |   |   |   |   |   |   |   |   | + |   | + |   |   |         |
| Adenoma                              |             | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |         |
| Carcinoma                            |             |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |         |
| Parathyroid Gland                    | +           | + |   | + | M | M |   | M | + |   | M | + | M | + | + | + |         |
| Adenoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Pituitary Gland                      | +           | + |   | + | M | A |   | + | + |   | + | + | + | + | M | + |         |
| Adenoma                              | X           | X |   | X |   |   |   |   | X |   | X | X | X | X |   | X |         |
| Thyroid Gland                        | +           | + |   | + | M | M |   | M | + |   | M | + | M | + | + | + |         |
| Follicular Cel, Adenoma              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>General Body System</b>           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Tissue NOS                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| <b>Genital System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |

\* ..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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>10 MG/M3ASBESTOS | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |         |
|                                      | 6           | 7 | 0 | 6 | 3 | 3 | 0 | 3 | 7 | 7 | 3 | 6 | 7 | 7 | 0 | 3  |         |
|                                      | 4           | 3 | 9 | 0 | 7 | 7 | 9 | 7 | 1 | 0 | 7 | 3 | 3 | 2 | 9 | 8  |         |
|                                      | 9           | 0 | 4 | 7 | 4 | 4 | 4 | 4 | 9 | 1 | 4 | 5 | 8 | 9 | 4 | 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 | 4 | 4  |         |
|                                      | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1  |         |
|                                      | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5  |         |
|                                      | 5           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2  |         |
| Epididymis                           | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Preputial Gland                      | +           | + |   | + | + | M |   | + | + |   | + | M | M | + | M | +  |         |
| Prostate                             | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Seminal Vesicle                      | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Testes                               | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Bilateral, Interstit Cell, Adenoma   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Interstit Cell, Adenoma              | X           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 22 |         |
| <b>Hematopoietic System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Bone Marrow                          | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Lymph Node                           | +           | + |   | + | M | M |   | M | + |   | M | + | M | M | + | +  |         |
| Lymph Node, Mandibular               | M           | + |   | M | M | M |   | M | + |   | M | + | + | + | M | +  |         |
| Lymph Node, Mesenteric               | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Spleen                               | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| Osteosarcoma, Metastatic, Bone       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Thymus                               | +           | + |   | + | M | M |   | M | M |   | M | + | M | + | + | +  |         |
| <b>Integumentary System</b>          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
| Mammary Gland                        | M           | M |   | M | + | M |   | + | M |   | M | + | M | + | M | M  |         |
| Fibrosarcoma                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |         |
| Skin                                 | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | +  |         |
| 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

**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>10 MG/M3ASBESTOS     | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |    |  |  |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|--|--|---|---|
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |    |  |  |   |   |
| ANIMAL ID                                | 6           | 7 | 0 | 6 | 3 | 3 | 0 | 3 | 7 | 7 | 3 | 6 | 7 | 7 | 0 | 3 |         |    |  |  |   |   |
|  | 4           | 3 | 9 | 0 | 7 | 7 | 9 | 7 | 1 | 0 | 7 | 3 | 3 | 2 | 9 | 8 |         |    |  |  |   |   |
|  | 9           | 0 | 4 | 7 | 4 | 4 | 4 | 4 | 9 | 1 | 4 | 5 | 8 | 9 | 4 | 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 | 4 | 4 |         |    |  |  |   |   |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 |         |    |  |  |   |   |
|  | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 |         |    |  |  |   |   |
|  | 5           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 |         |    |  |  |   |   |
| Keratoacanthoma                          | X           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3       |    |  |  |   |   |
| Sarcoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X       | 1  |  |  |   |   |
| <b>Musculoskeletal System</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |  |  |   |   |
| Bone                                     | +           |   | + |   | + |   | + |   | + |   | + |   | + |   | + |   | 64      |    |  |  |   |   |
| Osteoma                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |  |  |   |   |
| Osteosarcoma                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |  |  |   |   |
| Skeletal Muscle                          | +           |   | + |   | + |   | + |   | + |   | + |   | + |   | + |   | 56      |    |  |  |   |   |
| Rhabdomyosarcoma                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |  |  |   |   |
| <b>Nervous System</b>                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |  |  |   |   |
| Brain                                    | +           |   | + |   | A |   | + |   | + |   | + |   | + |   | + |   | 63      |    |  |  |   |   |
| Fibrous Histiocytoma                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |    |  |  |   |   |
| <b>Respiratory System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |  |  |   |   |
| Larynx                                   | +           |   | + |   | M |   | M |   | M |   | + |   | M |   | + |   | 53      |    |  |  |   |   |
| Lung                                     | +           |   | + |   | + |   | M |   | M |   | M |   | + |   | + |   | 54      |    |  |  |   |   |
| Alveolar/Bronchiolar Adenoma             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X       | 10 |  |  |   |   |
| Alveolar/Bronchiolar Adenoma, Multiple   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |  |  |   |   |
| Alveolar/Bronchiolar Carcinoma           | X           |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |         |    |  |  | X | 9 |
| Alveolar/Bronchiolar Carcinoma, Multiple |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |  |  |   |   |
| Bronchiole, Carcinoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |  |  |   |   |
| Osteosarcoma, Metastatic, Bone           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1  |  |  |   |   |
| Sarcoma, Metastatic, Skin                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X       | 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

P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/23/2014

Test Type: CHRONIC

Test Compound: Wollastonite calcium silicates

Time Report Requested: 12:33:41

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<br>10 MG/M3ASBESTOS | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | *TOTALS |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                      | 6           | 7 | 0 | 6 | 3 | 3 | 0 | 3 | 7 | 7 | 3 | 6 | 7 | 7 | 0 | 3 |         |
|                                      | 4           | 3 | 9 | 0 | 7 | 7 | 9 | 7 | 1 | 0 | 7 | 3 | 3 | 2 | 9 | 8 |         |
|                                      | 9           | 0 | 4 | 7 | 4 | 4 | 4 | 4 | 9 | 1 | 4 | 5 | 8 | 9 | 4 | 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 | 4 | 4 |         |
|                                      | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 |         |
|                                      | 6           | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 |         |
|                                      | 5           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 |         |
| Nose                                 | +           | + |   | + | M | + |   | M | + |   | + | + | + | A | + | + |         |
| Trachea                              | +           | + |   | + | M | M |   | M | + |   | M | + | M | + | + | + |         |
| <b>Special Senses System</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Eye                                  | +           | + |   | + | + | + |   | + | M |   | + | + | + | + | + | + |         |
| Harderian Gland                      | +           | + |   | M | M | + |   | M | M |   | + | + | M | + | + | + |         |
| Lacrimal Gland                       | +           | + |   | + | M | + |   | M | + |   | + | + | + | + | + | + |         |
| <b>Urinary System</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Kidney                               | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | + |         |
| Sarcoma                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |         |
| Urinary Bladder                      | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | + |         |
| <b>SYSTEMIC LESIONS</b>              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
| Multiple Organ                       | +           | + |   | + | + | + |   | + | + |   | + | + | + | + | + | + |         |
| Leukemia Mononuclear                 |             |   | X |   | X |   |   |   |   |   |   |   |   | X | X | X |         |
| Mesothelioma Benign                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |         |

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

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**P07: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

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**CAS Number:** 13983-17-0

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 12:33:41

**First Dose M/F:** NA / NA

**Lab:** NORTHROP

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

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