

**Experiment Number:** 20536 - 02  
**Test Type:** 39-WEEK  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Abrasive blasting agents (specular hematite)  
**CAS Number:** HEMATITESPEC

**Date Report Requested:** 09/13/2012  
**Time Report Requested:** 10:26:12  
**First Dose M/F:** 07/27/09 / NA  
**Lab:** BNW

F1\_Rev.1\_16 Wk. SSAC

**NTP Study Number:** C20536  
**Lock Date:** 07/19/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** 25017 SSAC  
**Removal Date Range:** 13-Nov-2009 - 13-Nov-2009  
**Treatment Groups:** Include ALL  
**Study Gender:** Male  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** 02/08/2012

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| Harlan Sprague Dawley RATS MALE | Control | 15 mg/m3 | 30 mg/m3 | 60 mg/m3 |
|---------------------------------|---------|----------|----------|----------|
|---------------------------------|---------|----------|----------|----------|

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## Disposition Summary

|                                  |    |    |    |    |
|----------------------------------|----|----|----|----|
| Animals Initially In Study       | 62 | 62 | 62 | 62 |
| Scheduled Sacrifice              | 8  | 8  | 8  | 8  |
| Early Deaths                     |    |    |    |    |
| Survivors                        |    |    |    |    |
| Animals Examined Microscopically | 8  | 8  | 8  | 8  |

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## ALIMENTARY SYSTEM

None

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## CARDIOVASCULAR SYSTEM

None

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## ENDOCRINE SYSTEM

None

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## GENERAL BODY SYSTEM

None

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## GENITAL SYSTEM

None

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## HEMATOPOIETIC SYSTEM

|                       |     |          |     |     |
|-----------------------|-----|----------|-----|-----|
| Lymph Node            | (0) | (1)      | (0) | (0) |
| Renal, Hemorrhage     |     | 1 (100%) |     |     |
| Lymph Node, Bronchial | (8) | (7)      | (8) | (8) |

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

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| Harlan Sprague Dawley RATS MALE   | Control | 15 mg/m3 | 30 mg/m3 | 60 mg/m3 |
|-----------------------------------|---------|----------|----------|----------|
| Foreign Body                      |         | 7 (100%) | 6 (75%)  | 7 (88%)  |
| Hyperplasia                       |         | 1 (14%)  | 2 (25%)  | 3 (38%)  |
| Infiltration Cellular, Histiocyte |         | 2 (29%)  | 6 (75%)  | 7 (88%)  |
| Pigmentation, Hemosiderin         |         | 1 (14%)  | 1 (13%)  |          |
| Lymph Node, Mediastinal           | (6)     | (8)      | (8)      | (8)      |
| Foreign Body                      |         | 4 (50%)  | 6 (75%)  | 8 (100%) |
| Hyperplasia                       |         | 3 (38%)  | 6 (75%)  | 8 (100%) |
| Infiltration Cellular, Histiocyte |         | 3 (38%)  | 5 (63%)  | 8 (100%) |
| Pigmentation, Hemosiderin         | 1 (17%) | 2 (25%)  |          |          |

**INTEGUMENTARY SYSTEM**

None

**MUSCULOSKELETAL SYSTEM**

None

**NERVOUS SYSTEM**

None

**RESPIRATORY SYSTEM**

|                                   |         |          |          |          |
|-----------------------------------|---------|----------|----------|----------|
| Larynx                            | (8)     | (8)      | (8)      | (8)      |
| Foreign Body                      |         | 8 (100%) | 8 (100%) | 8 (100%) |
| Epiglottis, Metaplasia, Squamous  |         | 3 (38%)  | 3 (38%)  | 4 (50%)  |
| Glands, Concretion                |         | 1 (13%)  |          |          |
| Glands, Inflammation              |         |          | 1 (13%)  |          |
| Lung                              | (8)     | (8)      | (8)      | (8)      |
| Foreign Body                      |         | 8 (100%) | 8 (100%) | 8 (100%) |
| Infiltration Cellular, Histiocyte | 2 (25%) | 8 (100%) | 8 (100%) | 8 (100%) |
| Inflammation, Chronic Active      | 1 (13%) |          |          | 3 (38%)  |

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

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| Harlan Sprague Dawley RATS MALE                       | Control | 15 mg/m3 | 30 mg/m3 | 60 mg/m3 |
|---|---------|----------|----------|----------|
| Alveolar Epithelium, Hyperplasia                      |         | 3 (38%)  | 8 (100%) | 8 (100%) |
| Nose  | (8)     | (8)      | (8)      | (8)      |
| Inflammation, Suppurative, Focal                      |         |          | 1 (13%)  |          |
| Glands, Accumulation, Hyaline Droplet                 |         |          | 1 (13%)  |          |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   | 7 (88%) | 8 (100%) | 7 (88%)  | 8 (100%) |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 (13%) | 4 (50%)  | 5 (63%)  | 2 (25%)  |
| Trachea   | (7)     | (8)      | (8)      | (8)      |

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SPECIAL SENSES SYSTEM

None

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URINARY SYSTEM

None

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