

**Study Number:** C11049-02  
**Test Type:** TOX  
**Route:** Nose-Only Inhalation  
**Species/Strain:** Mouse/B6C3F1/N

**PA03: Non-Neoplastic Lesion Summary with Percent Incidence**

**Test Compound:** Trimethylsilyldiazomethane

**CAS Number:** 18107-18-1

**Date Report Requested:** 10/22/2020

**Time Report Requested:** 09:09:58

**Lab:** Battelle

**Study Number:**

C11049-02

**Study Gender:**

Male

**PWG Approval Date:**

See web page for date of PWG Approval

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**Male: 1 Day Exposure**

|   | Treatment Groups (ppm) |     |                |
|---|------------------------|-----|----------------|
|   | 0                      | 10  | 25 ppm Hexanes |
| <b>Disposition Summary</b>                  |                        |     |                |
| <b>Animals Initially In Study</b>           | 8                      | 8   | 8              |
| <b>Early Deaths</b>                         |                        |     |                |
| <b>Survivors</b>                            |                        |     |                |
| <b>Scheduled sacrifice, terminal (SD 1)</b> | 8                      | 8   | 8              |
| <b>Animals Examined Microscopically</b>     | 8                      | 8   | 8              |
| <b>ALIMENTARY SYSTEM</b>                    |                        |     |                |
| LIVER                                       | (8)                    | (8) | (8)            |
| PHARYNX                                     | (8)                    | (8) | (8)            |
| <b>CARDIOVASCULAR SYSTEM</b>                |                        |     |                |
| AORTA                                       | (8)                    | (8) | (8)            |
| HEART                                       | (8)                    | (8) | (8)            |
| <b>ENDOCRINE SYSTEM</b>                     |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |
| <b>GENERAL BODY SYSTEM</b>                  |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |
| <b>GENITAL SYSTEM</b>                       |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |
| <b>HEMATOLYMPHOID SYSTEM</b>                |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |
| <b>INTEGUMENTARY SYSTEM</b>                 |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |
| <b>MUSCULOSKELETAL SYSTEM</b>               |                        |     |                |
| No Tissues/Organs Examined                  |                        |     |                |

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**Male: 1 Day Exposure**

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|                                    | Treatment Groups (ppm) |         |                |
|------------------------------------|------------------------|---------|----------------|
|                                    | 0                      | 10      | 25 ppm Hexanes |
| NERVOUS SYSTEM                     |                        |         |                |
| BRAIN                              | (8)                    | (8)     | (8)            |
| NERVE, SCIATIC                     | (8)                    | (8)     | (8)            |
| TRIGEMINAL GANGLION                | (8)                    | (8)     | (8)            |
| RESPIRATORY SYSTEM                 |                        |         |                |
| LARYNX                             | (8)                    | (8)     | (8)            |
| EPIGLOTTIS; METAPLASIA; SQUAMOUS   | 1 (13%)                | 1 (13%) |                |
| LUNG                               | (8)                    | (8)     | (8)            |
| INFILTRATION, CELLULAR; HISTIOCYTE |                        | 1 (13%) |                |
| NOSE                               | (8)                    | (8)     | (8)            |
| TRACHEA                            | (8)                    | (8)     | (8)            |
| SPECIAL SENSES SYSTEM              |                        |         |                |
| No Tissues/Organs Examined         |                        |         |                |
| URINARY SYSTEM                     |                        |         |                |
| KIDNEY, LEFT                       | (8)                    | (8)     | (8)            |
| NEPHROPATHY                        |                        | 1 (13%) |                |

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Date Report Requested: 10/22/2020  
 Time Report Requested: 09:09:58  
 Lab: Battelle

Male: 1 Day Recovery

|                                      | Treatment Groups (ppm) |         |                |
|--------------------------------------|------------------------|---------|----------------|
|                                      | 0                      | 10      | 25 ppm Hexanes |
| <b>Disposition Summary</b>           |                        |         |                |
| Animals Initially In Study           | 8                      | 8       | 8              |
| Early Deaths                         |                        |         |                |
| Found Dead                           |                        | 5       |                |
| Survivors                            |                        |         |                |
| Scheduled sacrifice, terminal (SD 9) | 8                      | 3       | 8              |
| Animals Examined Microscopically     | 8                      | 8       | 8              |
| ALIMENTARY SYSTEM                    |                        |         |                |
| LIVER                                | (8)                    | (8)     | (8)            |
| HEMATOPOIETIC CELL PROLIFERATION     | 1 (13%)                |         | 1 (13%)        |
| PHARYNX                              | (8)                    | (8)     | (8)            |
| CARDIOVASCULAR SYSTEM                |                        |         |                |
| AORTA                                | (8)                    | (8)     | (8)            |
| HEART                                | (8)                    | (8)     | (8)            |
| ENDOCRINE SYSTEM                     |                        |         |                |
| No Tissues/Organs Examined           |                        |         |                |
| GENERAL BODY SYSTEM                  |                        |         |                |
| No Tissues/Organs Examined           |                        |         |                |
| GENITAL SYSTEM                       |                        |         |                |
| No Tissues/Organs Examined           |                        |         |                |
| HEMATOLYMPHOID SYSTEM                |                        |         |                |
| THYMUS                               | (8)                    | (7)     | (8)            |
| ATROPHY                              |                        | 5 (71%) |                |
| INTEGUMENTARY SYSTEM                 |                        |         |                |
| No Tissues/Organs Examined           |                        |         |                |
| MUSCULOSKELETAL SYSTEM               |                        |         |                |
| No Tissues/Organs Examined           |                        |         |                |

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 Lab: Battelle

Male: 1 Day Recovery

|  | Treatment Groups (ppm) |         |                |
|--|------------------------|---------|----------------|
|  | 0                      | 10      | 25 ppm Hexanes |
| <b>NERVOUS SYSTEM</b>                    |                        |         |                |
| BRAIN                                    | (8)                    | (8)     | (8)            |
| NERVE, SCIATIC                           | (8)                    | (8)     | (8)            |
| TRIGEMINAL GANGLION                      | (8)                    | (8)     | (8)            |
| <b>RESPIRATORY SYSTEM</b>                |                        |         |                |
| LARYNX                                   | (8)                    | (8)     | (8)            |
| SQUAMOUS EPITHELIUM; HYPERPLASIA         |                        | 5 (63%) |                |
| SQUAMOUS EPITHELIUM; INFLAMMATION; ACUTE |                        | 4 (50%) |                |
| EPIGLOTTIS; METAPLASIA; SQUAMOUS         |                        | 1 (13%) |                |
| SQUAMOUS EPITHELIUM; ULCER               |                        | 1 (13%) |                |
| LUNG                                     | (8)                    | (8)     | (8)            |
| EDEMA                                    |                        | 5 (63%) |                |
| INTERSTITIUM; FIBROSIS                   |                        | 3 (38%) |                |
| HEMORRHAGE; ACUTE                        |                        | 5 (63%) |                |
| ALVEOLAR EPITHELIUM; HYPERPLASIA         |                        | 4 (50%) |                |
| BRONCHIOLE; EPITHELIUM; HYPERPLASIA      |                        | 3 (38%) |                |
| INFILTRATION, CELLULAR; HISTIOCYTE       | 2 (25%)                | 3 (38%) |                |
| INFLAMMATION; ACUTE                      |                        | 5 (63%) |                |
| INFLAMMATION; CHRONIC-ACTIVE             |                        | 3 (38%) |                |
| NECROSIS                                 |                        | 5 (63%) |                |
| NOSE                                     | (8)                    | (8)     | (8)            |
| TRACHEA                                  | (8)                    | (8)     | (8)            |
| <b>SPECIAL SENSES SYSTEM</b>             |                        |         |                |
| No Tissues/Organs Examined               |                        |         |                |
| <b>URINARY SYSTEM</b>                    |                        |         |                |
| KIDNEY, LEFT                             | (8)                    | (8)     | (8)            |
| NEPHROPATHY                              |                        |         | 1 (13%)        |

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**Lab:** Battelle

**Male: 5 Day Exposure**

|   | Treatment Groups (ppm) |     |     |     |     |                |
|---|------------------------|-----|-----|-----|-----|----------------|
|   | 0                      | 0.3 | 1   | 3   | 10  | 25 ppm Hexanes |
| <b>Disposition Summary</b>              |                        |     |     |     |     |                |
| <b>Animals Initially In Study</b>       | 8                      | 8   | 8   | 8   | 8   | 8              |
| <b>Early Deaths</b>                     |                        |     |     |     |     |                |
| Euthanized, moribund                    |                        |     |     |     | 2   |                |
| Found Dead                              |                        |     |     |     | 6   |                |
| <b>Survivors</b>                        |                        |     |     |     |     |                |
| Scheduled sacrifice, terminal (SD 5)    | 8                      | 8   | 8   | 8   |     | 8              |
| <b>Animals Examined Microscopically</b> | 8                      | 8   | 8   | 8   | 8   | 8              |
| <b>ALIMENTARY SYSTEM</b>                |                        |     |     |     |     |                |
| LIVER                                   | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| PHARYNX                                 | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| <b>CARDIOVASCULAR SYSTEM</b>            |                        |     |     |     |     |                |
| AORTA                                   | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| HEART                                   | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| <b>ENDOCRINE SYSTEM</b>                 |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |
| <b>GENERAL BODY SYSTEM</b>              |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |
| <b>GENITAL SYSTEM</b>                   |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |
| <b>HEMATOLYMPHOID SYSTEM</b>            |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |
| <b>INTEGUMENTARY SYSTEM</b>             |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |
| <b>MUSCULOSKELETAL SYSTEM</b>           |                        |     |     |     |     |                |
| No Tissues/Organs Examined              |                        |     |     |     |     |                |

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 Time Report Requested: 09:09:58  
 Lab: Battelle

Male: 5 Day Exposure

|                                     | Treatment Groups (ppm) |     |         |          |          |                |
|-------------------------------------|------------------------|-----|---------|----------|----------|----------------|
|                                     | 0                      | 0.3 | 1       | 3        | 10       | 25 ppm Hexanes |
| <b>NERVOUS SYSTEM</b>               |                        |     |         |          |          |                |
| BRAIN                               | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |
| NERVE, SCIATIC                      | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |
| TRIGEMINAL GANGLION                 | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |
| <b>RESPIRATORY SYSTEM</b>           |                        |     |         |          |          |                |
| LARYNX                              | (8)                    | (0) | (0)     | (8)      | (7)      | (8)            |
| SQUAMOUS EPITHELIUM; HYPERPLASIA    |                        |     |         |          | 2 (29%)  |                |
| INFLAMMATION; ACUTE                 |                        |     |         |          | 1 (14%)  |                |
| EPIGLOTTIS; METAPLASIA; SQUAMOUS    | 1 (13%)                |     |         |          |          | 2 (25%)        |
| SQUAMOUS EPITHELIUM; ULCER          |                        |     |         |          | 3 (43%)  |                |
| LUNG                                | (8)                    | (8) | (8)     | (8)      | (8)      | (8)            |
| EDEMA                               |                        |     | 7 (88%) | 8 (100%) | 8 (100%) |                |
| HEMORRHAGE; ACUTE                   |                        |     |         | 8 (100%) | 8 (100%) |                |
| ALVEOLAR EPITHELIUM; HYPERPLASIA    |                        |     |         | 8 (100%) |          |                |
| BRONCHIOLE; EPITHELIUM; HYPERPLASIA |                        |     |         | 8 (100%) |          |                |
| INFILTRATION, CELLULAR; HISTIOCYTE  |                        |     | 7 (88%) |          |          |                |
| INFLAMMATION; ACUTE                 |                        |     |         |          | 8 (100%) |                |
| INFLAMMATION; CHRONIC-ACTIVE        |                        |     |         | 8 (100%) |          |                |
| NECROSIS                            |                        |     |         | 8 (100%) | 8 (100%) |                |
| NOSE                                | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |
| TRACHEA                             | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |
| <b>SPECIAL SENSES SYSTEM</b>        |                        |     |         |          |          |                |
| No Tissues/Organs Examined          |                        |     |         |          |          |                |
| <b>URINARY SYSTEM</b>               |                        |     |         |          |          |                |
| KIDNEY, LEFT                        | (8)                    | (0) | (0)     | (0)      | (8)      | (8)            |

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**Lab:** Battelle

**Male: 5 Day Recovery**

|   | Treatment Groups (ppm) |     |     |     |     |                |
|---|------------------------|-----|-----|-----|-----|----------------|
|   | 0                      | 0.3 | 1   | 3   | 10  | 25 ppm Hexanes |
| <b>Disposition Summary</b>                  |                        |     |     |     |     |                |
| <b>Animals Initially In Study</b>           | 8                      | 8   | 8   | 8   | 8   | 8              |
| <b>Early Deaths</b>                         |                        |     |     |     |     |                |
| <b>Euthanized, moribund</b>                 |                        |     |     |     | 1   |                |
| <b>Found Dead</b>                           |                        |     |     |     | 7   |                |
| <b>Survivors</b>                            |                        |     |     |     |     |                |
| <b>Scheduled sacrifice, terminal (SD 9)</b> | 8                      | 8   | 8   | 8   |     | 8              |
| <b>Animals Examined Microscopically</b>     | 8                      | 8   | 8   | 8   | 8   | 8              |
| <b>ALIMENTARY SYSTEM</b>                    |                        |     |     |     |     |                |
| LIVER                                       | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| PHARYNX                                     | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| <b>CARDIOVASCULAR SYSTEM</b>                |                        |     |     |     |     |                |
| AORTA                                       | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| HEART                                       | (8)                    | (0) | (0) | (0) | (8) | (8)            |
| <b>ENDOCRINE SYSTEM</b>                     |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |
| <b>GENERAL BODY SYSTEM</b>                  |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |
| <b>GENITAL SYSTEM</b>                       |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |
| <b>HEMATOLYMPHOID SYSTEM</b>                |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |
| <b>INTEGUMENTARY SYSTEM</b>                 |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |
| <b>MUSCULOSKELETAL SYSTEM</b>               |                        |     |     |     |     |                |
| No Tissues/Organs Examined                  |                        |     |     |     |     |                |



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Male: 5 Day Recovery

|                                     | Treatment Groups (ppm) |     |          |          |          |                |
|-------------------------------------|------------------------|-----|----------|----------|----------|----------------|
|                                     | 0                      | 0.3 | 1        | 3        | 10       | 25 ppm Hexanes |
| NERVOUS SYSTEM                      |                        |     |          |          |          |                |
| BRAIN                               | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| NERVE, SCIATIC                      | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| TRIGEMINAL GANGLION                 | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| RESPIRATORY SYSTEM                  |                        |     |          |          |          |                |
| LARYNX                              | (8)                    | (0) | (8)      | (8)      | (8)      | (8)            |
| SQUAMOUS EPITHELIUM; HYPERPLASIA    |                        |     |          | 3 (38%)  | 1 (13%)  |                |
| INFLAMMATION; ACUTE                 |                        |     |          | 5 (63%)  |          |                |
| EPIGLOTTIS; METAPLASIA; SQUAMOUS    |                        |     |          | 1 (13%)  |          | 2 (25%)        |
| SQUAMOUS EPITHELIUM; ULCER          |                        |     |          | 4 (50%)  | 4 (50%)  |                |
| LUNG                                | (8)                    | (8) | (8)      | (8)      | (8)      | (8)            |
| EDEMA                               |                        |     |          | 6 (75%)  | 8 (100%) |                |
| INTERSTITIUM; FIBROSIS              |                        |     | 8 (100%) | 8 (100%) |          |                |
| HEMORRHAGE; ACUTE                   |                        |     | 1 (13%)  | 7 (88%)  | 7 (88%)  |                |
| ALVEOLAR EPITHELIUM; HYPERPLASIA    |                        |     | 8 (100%) | 8 (100%) |          |                |
| BRONCHIOLE; EPITHELIUM; HYPERPLASIA |                        |     | 8 (100%) | 8 (100%) |          |                |
| INFILTRATION, CELLULAR; HISTIOCYTE  |                        |     |          |          |          | 1 (13%)        |
| INFLAMMATION; ACUTE                 |                        |     |          |          | 8 (100%) |                |
| INFLAMMATION; CHRONIC-ACTIVE        |                        |     | 8 (100%) | 8 (100%) |          |                |
| NECROSIS                            |                        |     |          | 8 (100%) | 8 (100%) |                |
| NOSE                                | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| TRACHEA                             | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| SPECIAL SENSES SYSTEM               |                        |     |          |          |          |                |
| No Tissues/Organs Examined          |                        |     |          |          |          |                |
| URINARY SYSTEM                      |                        |     |          |          |          |                |
| KIDNEY, LEFT                        | (8)                    | (0) | (0)      | (0)      | (8)      | (8)            |
| NEPHROPATHY                         |                        |     |          |          | 1 (13%)  | 1 (13%)        |

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#### LEGEND

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Number of animals examined given for each tissue. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion.

Number of animals with observation reported with percent incidence in parentheses

Phase day range of terminal sacrifice shown in parentheses in disposition summary

SD – Study Day

The 1 Day Exposure animals were exposed for one day and then sacrificed on study day 1 (first day of exposure was study day 0); the 1 Day Recovery animals were exposed for 1 day and then sacrificed on study day 9; the 5 Day Exposure animals were exposed for five days and then sacrificed on study day 5; the 5 Day Recovery animals were exposed for five days and then sacrificed on study day 9.

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