

**TDMS No.** 88133 - 07  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Trimethylolpropane triacrylate

**CAS Number:** 15625-89-5

**Date Report Requested:** 03/31/2010

**Time Report Requested:** 13:41:41

**First Dose M/F:** 01/18/05 / 01/18/05

**Lab:** SRI

**C Number:** C88133C  
**Lock Date:** 10/30/2007  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = 0 MG/KG**

| TOTAL 65              |     |     | UNCENSORED DEATHS 27 |     |     |     |     | CENSORED DEATHS 15 |     |     |     |     | TERMINAL 23 |  |
|-----------------------|-----|-----|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-------------|--|
| UNCENSORED DEATH DAYS |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 439                   | 504 | 550 | 567                  | 581 | 591 | 606 | 606 | 622                | 625 | 635 | 652 | 659 | 669         |  |
| 674                   | 674 | 674 | 676                  | 680 | 690 | 693 | 702 | 702                | 702 | 704 | 704 | 708 |             |  |
| CENSORED DEATH DAYS   |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 15                    | 15  | 15  | 15                   | 15  | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366 | 366         |  |
| 366                   |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |

**DOSE = 0.3 MG/KG**

| TOTAL 65              |     |     | UNCENSORED DEATHS 31 |     |     |     |     | CENSORED DEATHS 16 |     |     |     |     | TERMINAL 18 |  |
|-----------------------|-----|-----|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-------------|--|
| UNCENSORED DEATH DAYS |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 279                   | 317 | 318 | 365                  | 436 | 443 | 472 | 511 | 529                | 535 | 543 | 552 | 577 | 582         |  |
| 587                   | 591 | 639 | 652                  | 652 | 655 | 663 | 669 | 669                | 669 | 670 | 674 | 674 | 682         |  |
| 682                   | 697 | 704 |                      |     |     |     |     |                    |     |     |     |     |             |  |
| CENSORED DEATH DAYS   |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 15                    | 15  | 15  | 15                   | 15  | 91  | 91  | 91  | 91                 | 91  | 122 | 366 | 366 | 366         |  |
| 366                   | 366 |     |                      |     |     |     |     |                    |     |     |     |     |             |  |

**DOSE = 1.0 MG/KG**

| TOTAL 65              |     |     | UNCENSORED DEATHS 22 |     |     |     |     | CENSORED DEATHS 15 |     |     |     |     | TERMINAL 28 |  |
|-----------------------|-----|-----|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-------------|--|
| UNCENSORED DEATH DAYS |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 416                   | 443 | 465 | 485                  | 535 | 535 | 538 | 543 | 543                | 571 | 598 | 609 | 626 | 652         |  |
| 655                   | 662 | 669 | 693                  | 705 | 715 | 723 | 728 |                    |     |     |     |     |             |  |
| CENSORED DEATH DAYS   |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |
| 15                    | 15  | 15  | 15                   | 15  | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366 | 366         |  |
| 366                   |     |     |                      |     |     |     |     |                    |     |     |     |     |             |  |

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 3.0 MG/KG**

| TOTAL 65              |     | UNCENSORED DEATHS 27 |     |     |     |     | CENSORED DEATHS 15 |     |     |     |     | TERMINAL 23 |     |  |
|-----------------------|-----|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-------------|-----|--|
| UNCENSORED DEATH DAYS |     |                      |     |     |     |     |                    |     |     |     |     |             |     |  |
| 157                   | 332 | 454                  | 518 | 526 | 582 | 588 | 591                | 617 | 626 | 638 | 646 | 652         | 662 |  |
| 669                   | 669 | 673                  | 674 | 678 | 690 | 693 | 704                | 711 | 715 | 715 | 722 | 723         |     |  |
| CENSORED DEATH DAYS   |     |                      |     |     |     |     |                    |     |     |     |     |             |     |  |
| 15                    | 15  | 15                   | 15  | 15  | 91  | 91  | 91                 | 91  | 91  | 366 | 366 | 366         | 366 |  |
| 366                   |     |                      |     |     |     |     |                    |     |     |     |     |             |     |  |

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

| KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%) |             |       |       |       |       |      |      |      |      |        |
|---|-------------|-------|-------|-------|-------|------|------|------|------|--------|
| DOSE  | TIME (DAYS) |       |       |       |       |      |      |      |      |        |
|   | 90          | 180   | 270   | 365   | 425   | 485  | 545  | 605  | 665  | 729(A) |
| <b>0 MG/KG</b>                                  | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 88.0 | 74.0 | 46.0   |
| <b>0.3 MG/KG</b>                                | 100.0       | 100.0 | 100.0 | 92.6  | 92.6  | 86.4 | 78.2 | 67.9 | 57.6 | 37.0   |
| <b>1.0 MG/KG</b>                                | 100.0       | 100.0 | 100.0 | 100.0 | 98.0  | 92.0 | 82.0 | 78.0 | 68.0 | 56.0   |
| <b>3.0 MG/KG</b>                                | 100.0       | 98.2  | 98.2  | 96.4  | 96.4  | 94.4 | 90.3 | 84.3 | 72.3 | 46.2   |

(A) FIRST TERMINAL SACRIFICE  
 (B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".  
 (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE  
 (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

TDMS No. 88133 - 07  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344/N

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CAS Number: 15625-89-5

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First Dose M/F: 01/18/05 / 01/18/05  
Lab: SRI

**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

| SURVIVAL SUMMARY STATISTICS                                   |                 |                 |                 |                 |
|---|-----------------|-----------------|-----------------|-----------------|
| DOSE  | 0 MG/KG         | 0.3 MG/KG       | 1.0 MG/KG       | 3.0 MG/KG       |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)             | 46.0%           | 37.0%           | 56.0%           | 46.2%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                       | P=0.626N        | P=0.161         | P=0.581N        | P=1.000         |
| <b>MEAN DAY OF<br/>NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 640.3<br>(13.0) | 570.6<br>(22.3) | 595.9<br>(20.2) | 615.7<br>(24.7) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)                 | 560.2<br>(29.9) | 512.2<br>(30.2) | 552.0<br>(30.2) | 550.0<br>(30.8) |

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE  
(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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 Lab: SRI

**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = 0 MG/KG**

| TOTAL 65              |     |     |     | UNCENSORED DEATHS 23 |     |     |     | CENSORED DEATHS 15 |     |     |     | TERMINAL 27 |     |  |
|-----------------------|-----|-----|-----|----------------------|-----|-----|-----|--------------------|-----|-----|-----|-------------|-----|--|
| UNCENSORED DEATH DAYS |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 497                   | 543 | 560 | 560 | 585                  | 597 | 598 | 606 | 616                | 625 | 626 | 648 | 649         | 652 |  |
| 653                   | 661 | 690 | 698 | 702                  | 712 | 722 | 722 | 726                |     |     |     |             |     |  |
| CENSORED DEATH DAYS   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 15                    | 15  | 15  | 15  | 15                   | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366         | 366 |  |
| 366                   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |

**DOSE = 0.3 MG.KG**

| TOTAL 65              |     |     |     | UNCENSORED DEATHS 19 |     |     |     | CENSORED DEATHS 15 |     |     |     | TERMINAL 31 |     |  |
|-----------------------|-----|-----|-----|----------------------|-----|-----|-----|--------------------|-----|-----|-----|-------------|-----|--|
| UNCENSORED DEATH DAYS |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 399                   | 577 | 594 | 622 | 638                  | 639 | 650 | 655 | 655                | 662 | 680 | 697 | 704         | 704 |  |
| 709                   | 714 | 715 | 715 | 728                  |     |     |     |                    |     |     |     |             |     |  |
| CENSORED DEATH DAYS   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 15                    | 15  | 15  | 15  | 15                   | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366         | 366 |  |
| 366                   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |

**DOSE = 1.0 MG/KG**

| TOTAL 65              |     |     |     | UNCENSORED DEATHS 26 |     |     |     | CENSORED DEATHS 15 |     |     |     | TERMINAL 24 |     |  |
|-----------------------|-----|-----|-----|----------------------|-----|-----|-----|--------------------|-----|-----|-----|-------------|-----|--|
| UNCENSORED DEATH DAYS |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 338                   | 371 | 449 | 472 | 485                  | 502 | 511 | 571 | 591                | 598 | 598 | 600 | 625         | 637 |  |
| 652                   | 662 | 670 | 682 | 682                  | 690 | 693 | 702 | 704                | 709 | 715 | 715 |             |     |  |
| CENSORED DEATH DAYS   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 15                    | 15  | 15  | 15  | 15                   | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366         | 366 |  |
| 366                   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 3.0 MG/KG**

| TOTAL 65              |     |     |     | UNCENSORED DEATHS 18 |     |     |     | CENSORED DEATHS 15 |     |     |     | TERMINAL 32 |     |  |
|-----------------------|-----|-----|-----|----------------------|-----|-----|-----|--------------------|-----|-----|-----|-------------|-----|--|
| UNCENSORED DEATH DAYS |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 298                   | 379 | 417 | 448 | 464                  | 471 | 552 | 594 | 606                | 625 | 652 | 669 | 690         | 691 |  |
| 704                   | 715 | 721 | 722 |                      |     |     |     |                    |     |     |     |             |     |  |
| CENSORED DEATH DAYS   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |
| 15                    | 15  | 15  | 15  | 15                   | 91  | 91  | 91  | 91                 | 91  | 366 | 366 | 366         | 366 |  |
| 366                   |     |     |     |                      |     |     |     |                    |     |     |     |             |     |  |

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

| KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%) |             |       |       |       |       |       |      |      |      |        |
|---|-------------|-------|-------|-------|-------|-------|------|------|------|--------|
| DOSE  | TIME (DAYS) |       |       |       |       |       |      |      |      |        |
|   | 90          | 180   | 270   | 365   | 425   | 485   | 545  | 605  | 665  | 729(A) |
| 0 MG/KG   | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 86.0 | 68.0 | 54.0   |
| 0.3 MG.KG                                       | 100.0       | 100.0 | 100.0 | 100.0 | 98.0  | 98.0  | 98.0 | 94.0 | 80.0 | 62.0   |
| 1.0 MG/KG                                       | 100.0       | 100.0 | 100.0 | 98.2  | 96.2  | 90.2  | 86.2 | 76.1 | 68.1 | 48.1   |
| 3.0 MG/KG                                       | 100.0       | 100.0 | 100.0 | 98.2  | 94.2  | 88.2  | 88.2 | 84.2 | 78.1 | 64.1   |

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

| SURVIVAL SUMMARY STATISTICS                                   |                 |                 |                 |                 |
|---|-----------------|-----------------|-----------------|-----------------|
| DOSE  | 0 MG/KG         | 0.3 MG.KG       | 1.0 MG/KG       | 3.0 MG/KG       |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)             | 54.0%           | 62.0%           | 48.1%           | 64.1%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                       | P=0.603N        | P=0.394N        | P=0.559         | P=0.485N        |
| <b>MEAN DAY OF<br/>NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 636.9<br>(13.2) | 655.6<br>(17.4) | 600.9<br>(21.3) | 578.8<br>(31.5) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)                 | 564.5<br>(30.1) | 575.6<br>(30.7) | 545.8<br>(30.2) | 555.5<br>(31.0) |

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

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)