

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Diethylamine

CAS Number: 109-89-7

F1_R2

Date Report Requested: 12/30/2008

Time Report Requested: 09:38:54

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

C Number: C99017
Lock Date: 07/24/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 28

UNCENSORED DEATH DAYS:

505 547 549 557 562 585 605 621 625 640 642 646 647 651
656 660 667 675 695 710 723 723

CENSORED DEATH DAYS:

None

DOSE = 31 PPM

TOTAL 50 UNCENSORED DEATHS 29 CENSORED DEATHS 0 TERMINAL 21

UNCENSORED DEATH DAYS:

455 473 478 512 571 583 600 611 635 640 646 652 663 670
674 674 674 677 682 688 698 702 702 702 705 710 710 710
715

CENSORED DEATH DAYS:

None

DOSE = 62.5 PPM

TOTAL 50 UNCENSORED DEATHS 25 CENSORED DEATHS 0 TERMINAL 25

UNCENSORED DEATH DAYS:

453 475 569 596 612 624 646 652 652 653 656 665 674 681
687 694 699 711 712 714 715 716 719 724 726

CENSORED DEATH DAYS:

None

DOSE = 125 PPM

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36

UNCENSORED DEATH DAYS:

291 527 562 611 618 628 634 646 656 669 684 702 703 716

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CENSORED DEATH DAYS:

None

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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)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	98.0	86.0	68.0	56.0
31 PPM	100.0	100.0	100.0	100.0	100.0	94.0	92.0	86.0	74.0	42.0
62.5 PPM	100.0	100.0	100.0	100.0	100.0	96.0	96.0	92.0	76.0	50.0
125 PPM	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	82.0	72.0

- (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)

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	31 PPM	62.5 PPM	125 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	56.0%	42.0%	50.0%	72.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.038N	P=0.333	P=0.927	P=0.136N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	631.4 (12.8)	641.8 (14.3)	657.0 (14.4)	617.6 (28.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	686.1 (8.9)	678.4 (10.3)	693.0 (8.8)	697.8 (10.6)

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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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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31

UNCENSORED DEATH DAYS:

361 486 502 536 544 590 598 599 625 638 646 665 674 688
704 704 706 716 716

CENSORED DEATH DAYS:

None

DOSE = 31 PPM

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31

UNCENSORED DEATH DAYS:

574 575 578 607 631 640 642 645 646 654 666 688 688 702
702 706 710 716 717

CENSORED DEATH DAYS:

None

DOSE = 62.5 PPM

TOTAL 50 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 30

UNCENSORED DEATH DAYS:

310 481 544 553 554 618 631 638 639 641 661 666 681 682
683 688 702 719 724 725

CENSORED DEATH DAYS:

None

DOSE = 125 PPM

TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34

UNCENSORED DEATH DAYS:

429 449 571 586 590 592 618 618 627 647 663 666 667 675
712 729

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT **730** DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

None

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FEMALE RATS
FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
CONTROL	100.0	100.0	100.0	98.0	98.0	98.0	90.0	84.0	76.0	62.0
31 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.0	80.0	62.0
62.5 PPM	100.0	100.0	100.0	98.0	98.0	96.0	94.0	90.0	78.0	60.0
125 PPM	100.0	100.0	100.0	100.0	100.0	96.0	96.0	88.0	78.0	68.0

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FEMALE RATS

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	31 PPM	62.5 PPM	125 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.0%	62.0%	60.0%	68.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.640N	P=1.000N	P=1.000	P=0.682N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	615.7 (21.9)	657.2 (11.1)	627.0 (22.3)	614.9 (20.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	686.6 (11.4)	702.3 (6.5)	688.8 (11.4)	693.2 (10.0)

*** END OF REPORT ***

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