

Experiment Number: 20303 - 01
Test Type: 14-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Vinylidene Chloride
CAS Number: 75-35-4

Date Report Requested: 09/15/2016
Time Report Requested: 09:38:38
First Dose M/F: 06/14/04 / 06/14/04
Lab: BNW

NTP Study Number: C20303
Lock Date: 06/01/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 25 PPM

TOTAL 5	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 4
UNCENSORED DEATH DAYS			
10			
CENSORED DEATH DAYS			
None			

DOSE = 50 PPM

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 100 PPM

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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MALE RATS

FIRST TERMINAL SACRIFICE AT 17 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 200 PPM

TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
2 2 2 2 2			
CENSORED DEATH DAYS			
None			

DOSE = 400PPM

TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
1 2 2 2 2			
CENSORED DEATH DAYS			
None			

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FIRST TERMINAL SACRIFICE AT 17 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 PPM	100.0	100.0	100.0	100.0	80.0	80.0	80.0	80.0	80.0	80.0
50 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200 PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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 17 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	25 PPM	50 PPM	100 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	80.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=1.000	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	10.0 (.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	15.6 (1.4)	17.0 (0.0)	17.0 (0.0)

DOSE	200 PPM	400PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	0.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.016	P=0.017
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	2.0 (0.0)	1.8 (0.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	2.0 (0.0)	1.8 (0.2)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 25 PPM

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 50 PPM

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 100 PPM

TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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FIRST TERMINAL SACRIFICE AT 17 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 200 PPM

TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
2 2 2 2 2			
CENSORED DEATH DAYS			
None			

DOSE = 400 PPM

TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
2 2 2 2 4			
CENSORED DEATH DAYS			
None			

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50 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200 PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400 PPM	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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DOSE	CONTROL	25 PPM	50 PPM	100 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)	17.0 (0.0)

DOSE	200 PPM	400 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	0.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.016	P=0.009
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	2.0 (0.0)	2.4 (0.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	2.0 (0.0)	2.4 (0.4)

*** END OF REPORT ***

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