

Experiment Number: 07040 - 01

Test Type: 28-DAY

Route: GAVAGE

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Perfluorobutane sulfonate (PFBS)

CAS Number: 375-73-5

Date Report Requested: 02/06/2018

Time Report Requested: 12:38:00

First Dose M/F: 01/19/12 / 01/20/12

Lab: BAT

PFBS_Final 1

NTP Study Number: C07040
Lock Date: 04/25/2016
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 29 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0mg/kg/d M

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 62.6mg/kg/d M

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 125mg/kg/d M

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 250mg/kg/d M

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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MALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 500mg/kg/d M

TOTAL 10

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 10

UNCENSORED DEATH DAYS

None

CENSORED DEATH DAYS

None

DOSE = 1000mg/kg/d M

TOTAL 10

UNCENSORED DEATHS 9

CENSORED DEATHS 1

TERMINAL 0

UNCENSORED DEATH DAYS

15 17 18 18 18 21 24 25 25

CENSORED DEATH DAYS

6

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MALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	3	6	9	12	15	18	21	24	27	29(A)
0mg/kg/d M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
62.6mg/kg/d M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125mg/kg/d M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250mg/kg/d M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500mg/kg/d M	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000mg/kg/d M	100.0	100.0	100.0	100.0	88.9	44.4	33.3	22.2	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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First Dose M/F: 01/19/12 / 01/20/12

Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0mg/kg/d M	62.6mg/kg/d M	125mg/kg/d M	250mg/kg/d M
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)	29.0 (0.0)	29.0 (0.0)	29.0 (0.0)	29.0 (0.0)

DOSE	500mg/kg/d M	1000mg/kg/d M
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	-----	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	20.1 (1.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	29.0 (0.0)	18.7 (1.8)

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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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First Dose M/F: 01/19/12 / 01/20/12

Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 62.6mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 125mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 250mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 9
UNCENSORED DEATH DAYS			
25			
CENSORED DEATH DAYS			
None			

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Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 500mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 9
UNCENSORED DEATH DAYS			
21			
CENSORED DEATH DAYS			
None			

DOSE = 1000mg/kg/d F

TOTAL 10	UNCENSORED DEATHS 8	CENSORED DEATHS 0	TERMINAL 2
UNCENSORED DEATH DAYS			
16 20 21 22 22 23 27 27			
CENSORED DEATH DAYS			
None			

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 29 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	3	6	9	12	15	18	21	24	27	29(A)
0mg/kg/d F	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
62.6mg/kg/d F	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125mg/kg/d F	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250mg/kg/d F	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	90.0
500mg/kg/d F	100.0	100.0	100.0	100.0	100.0	100.0	90.0	90.0	90.0	90.0
1000mg/kg/d F	100.0	100.0	100.0	100.0	100.0	90.0	70.0	40.0	20.0	20.0

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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 29 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0mg/kg/d F	62.6mg/kg/d F	125mg/kg/d F	250mg/kg/d F
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	90.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	-----	-----	P=1.000
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	25.0 (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	29.0 (0.0)	29.0 (0.0)	29.0 (0.0)	28.6 (0.4)

DOSE	500mg/kg/d F	1000mg/kg/d F
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	90.0%	20.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=1.000	P=0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	21.0 (.)	22.3 (1.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	28.2 (0.8)	23.6 (1.4)

*** END OF REPORT ***

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

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