

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

F#2\_R2

**C Number:** C95003  
**Lock Date:** 01/29/2007  
**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)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 23	CENSORED DEATHS 0	TERMINAL 27										
UNCENSORED DEATH DAYS													
368	480	537	554	573	590	601	616	639	650	653	659	659	663
664	671	677	694	703	703	708	710	716					
CENSORED DEATH DAYS													
None													

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**DOSE = 10 MG/KG**

TOTAL 50	UNCENSORED DEATHS 20	CENSORED DEATHS 0	TERMINAL 30										
UNCENSORED DEATH DAYS													
272	306	480	530	554	591	591	591	613	657	659	659	660	667
670	675	687	701	718	726								
CENSORED DEATH DAYS													
None													

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**DOSE = 30 MG/KG**

TOTAL 50	UNCENSORED DEATHS 28	CENSORED DEATHS 0	TERMINAL 22										
UNCENSORED DEATH DAYS													
362	467	534	554	554	554	575	590	626	630	632	632	632	633
642	644	657	659	667	673	685	690	694	704	708	710	716	724
CENSORED DEATH DAYS													
None													

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**DOSE = 90 MG/KG**

TOTAL 50	UNCENSORED DEATHS 20	CENSORED DEATHS 0	TERMINAL 30										
UNCENSORED DEATH DAYS													
449	468	522	562	569	632	632	633	657	658	659	667	667	670
694	704	704	708	713	716								
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)
<b>0 MG/KG</b>	100.0	100.0	100.0	100.0	98.0	96.0	94.0	86.0	70.0	54.0
<b>10 MG/KG</b>	100.0	100.0	100.0	96.0	96.0	94.0	92.0	84.0	74.0	60.0
<b>30 MG/KG</b>	100.0	100.0	100.0	98.0	98.0	96.0	94.0	84.0	64.0	44.0
<b>90 MG/KG</b>	100.0	100.0	100.0	100.0	100.0	96.0	94.0	90.0	78.0	60.0

(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	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	54.0%	60.0%	44.0%	60.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.654N	P=0.719N	P=0.369	P=0.632N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	629.9 (17.5)	600.4 (27.7)	626.7 (15.4)	634.2 (17.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.4 (10.6)	677.5 (14.2)	671.7 (11.2)	691.1 (9.7)

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Lab: SRI

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 20						CENSORED DEATHS 0						TERMINAL 30	
UNCENSORED DEATH DAYS														
22	426	554	605	629	629	632	640	644	646	650	653	659	675	
677	701	708	710	714	720									
CENSORED DEATH DAYS														
None														

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**DOSE = 10 MG/KG**

TOTAL 50	UNCENSORED DEATHS 26						CENSORED DEATHS 0						TERMINAL 24	
UNCENSORED DEATH DAYS														
372	493	515	520	520	537	547	557	562	578	591	609	615	616	
624	632	642	686	703	703	708	715	716	716	724	726			
CENSORED DEATH DAYS														
None														

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**DOSE = 30 MG/KG**

TOTAL 50	UNCENSORED DEATHS 23						CENSORED DEATHS 0						TERMINAL 27	
UNCENSORED DEATH DAYS														
75	453	455	554	557	583	587	591	605	614	627	632	679	687	
694	703	704	708	708	710	715	721	722						
CENSORED DEATH DAYS														
None														

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**DOSE = 90 MG/KG**

TOTAL 50	UNCENSORED DEATHS 24						CENSORED DEATHS 0						TERMINAL 26	
UNCENSORED DEATH DAYS														
17	306	470	493	493	537	589	590	593	613	629	632	636	639	
657	677	677	687	693	701	716	716	718	724					
CENSORED DEATH DAYS														
None														

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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	98.0	98.0	98.0	98.0	98.0	96.0	96.0	92.0	74.0	60.0
10 MG/KG	100.0	100.0	100.0	100.0	98.0	98.0	88.0	78.0	66.0	48.0
30 MG/KG	98.0	98.0	98.0	98.0	98.0	94.0	94.0	82.0	76.0	54.0
90 MG/KG	98.0	98.0	98.0	96.0	96.0	94.0	88.0	82.0	70.0	52.0

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	60.0%	48.0%	54.0%	52.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.745	P=0.240	P=0.654	P=0.463
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	614.7 (34.5)	612.6 (17.8)	612.3 (29.6)	591.8 (32.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.3 (15.8)	668.5 (12.4)	675.3 (15.8)	663.1 (18.1)

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

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