

TDMS No. 60311 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/08/2011

Time Report Requested: 08:23:30

First Dose M/F: 05/15/06 / 05/15/06

Lab: BNW

F1_M3

C Number: C60311
Lock Date: 12/03/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.2.1_003
PWG Approval Date: NONE

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MALE MICE

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	100.0	98.0	90.0	78.0
1.25 mg/m3	100.0	100.0	100.0	100.0	100.0	98.0	98.0	92.0	76.0	62.0
2.5 mg/m3	100.0	100.0	100.0	98.0	94.0	90.0	88.0	84.0	70.0	58.0
5.0 mg/m3	100.0	100.0	98.0	98.0	96.0	94.0	92.0	78.0	68.0	50.0

(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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SURVIVAL SUMMARY STATISTICS				
DOSE	control	1.25 mg/m3	2.5 mg/m3	5.0 mg/m3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	78.0%	62.0%	58.0%	50.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.004	P=0.102	P=0.035	P=0.003
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	666.2 (13.4)	639.6 (16.0)	593.1 (25.3)	606.1 (22.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	715.2 (4.7)	695.0 (8.6)	671.9 (14.2)	667.5 (14.0)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 731 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
control	100.0	100.0	98.0	98.0	94.0	94.0	90.0	86.0	80.0	72.0
1.25 mg/m3	100.0	100.0	100.0	100.0	98.0	98.0	90.0	90.0	80.0	70.0
2.5 mg/m3	100.0	100.0	100.0	100.0	100.0	98.0	94.0	78.0	70.0	54.0
5.0 mg/m3	100.0	100.0	100.0	98.0	98.0	96.0	88.0	78.0	62.0	52.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	control	1.25 mg/m3	2.5 mg/m3	5.0 mg/m3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	72.0%	70.0%	54.0%	52.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.019	P=1.000	P=0.110	P=0.061
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	570.3 (39.6)	612.4 (24.8)	620.2 (14.6)	599.2 (17.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	686.0 (14.9)	695.4 (10.6)	680.0 (10.3)	667.7 (12.5)

*** END OF REPORT ***

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