Experiment Number: 10188 - 01 Test Type: CHRONIC Route: DOSED FEED Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

NTP Study Number: C10188B Lock Date: 04/01/2015 Cage Range: ALL Date Range: ALL **Reasons For Removal:** ALL **Removal Date Range:** ALL Include ALL **Treatment Groups: Study Gender:** Both **TDMSE** Version: 3.0.2.3_002 **PWG Approval Date:** NONE

Final 1_HSD Rats

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 733 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0	opm Ma	ale											
TOTAL 50			ι	JNCENS	ORED D	EATHS 1	8	C	ENSOR	ED DEAT	THS 0		TERMINAL 32
UNCENS	DRED DE	EATH DA	YS.										
271 689	398 691	446 697	465 726	488	497	556	564	612	625	632	638	653	663
CENSOR	ED DEAT	H DAYS											
None													
DOSE = 30	0 ppm	Male											
TOTAL 50			ι	JNCENS	ORED D	EATHS 1	6	C	ENSOR	ED DEAT	THS 0		TERMINAL 34
UNCENSO	ORED DE	EATH DA	YS										
257 723	287 732	556	579	602	615	635	653	653	654	671	676	709	709
CENSORI	ED DEAT	H DAYS											
None													
DOSE = 10	00 ppn	n Male											
TOTAL 50			ι	JNCENS	ORED D	EATHS 1	1	C	ENSOR	ED DEAT	THS 0		TERMINAL 39
UNCENS	DRED DE	EATH DA	YS										
308	332	624	656	658	662	669	685	698	701	722			
CENSORI	ED DEAT	H DAYS											
None													
DOSE = 30	00 ppn	n Male											
TOTAL 50			ι	JNCENS	ORED D	EATHS 1	5	C	ENSOR	ED DEAT	THS 0		TERMINAL 35
UNCENS	DRED DE	EATH DA	YS										
323 728	349	504	589	605	614	635	644	677	680	681	691	707	728
CENSORI	ED DEAT	H DAYS											
None													

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT **733** DAYS INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10	000 pp	om Male	9						
TOTAL 50)		ι	JNCENS	ORED D	EATHS 8		CENSORED DEATHS 0	TERMINAL 42
UNCENS	ORED DI	EATH DA	YS						
425	455	614	621	653	661	663	684		
CENSOR	ED DEAT	TH DAYS							
None									

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

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MALE RATS

FIRST TERMINAL SACRIFICE AT 733 DAYS

		KAP	LAN-ME		VIVAL PF	ROBABIL	ITY EST	IMATES	(%)	
DOSE	DOSE TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	733(A)
0 ppm Male	100.0	100.0	100.0	98.0	96.0	92.0	88.0	84.0	72.0	64.0
300 ppm Male	100.0	100.0	98.0	96.0	96.0	96.0	96.0	90.0	80.0	68.0
1000 ppm Male	100.0	100.0	100.0	96.0	96.0	96.0	96.0	96.0	88.0	78.0
3000 ppm Male	100.0	100.0	100.0	96.0	96.0	96.0	94.0	90.0	84.0	70.0
10000 ppm Male	100.0	100.0	100.0	100.0	98.0	96.0	96.0	96.0	86.0	84.0

 ⁽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)

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%	68.0%	78.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.061N	P=0.692N	P=0.139N	P=0.553N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	572.8 (28.9)	606.9 (35.0)	610.5 (44.1)	610.3 (32.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	675.3 (15.0)	692.7 (13.8)	706.0 (11.8)	696.2 (12.5)

DOSE	10000 ppm Male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	84.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.037N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	597.0 (35.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	711.2 (8.9)

 ⁽A) FIRST TERMINAL SACRIFICE
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 (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
 (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 736 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

COSE = 0 pur Female 10TAL 50 UNCENSORED DEATH 517 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 355 468 489 537 559 575 598 643 646 658 668 679 058 468 489 537 559 575 598 643 646 658 668 679 CENSORED DEATH DAYS 728															
UNCENSORED DEATH DAYS 355 468 489 537 559 575 598 643 646 658 658 668 679 CENSORED DEATH DAYS None None <t< th=""><th>SE = 0 pp</th><th>ppm l</th><th>Fem</th><th>nale</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	SE = 0 pp	ppm l	Fem	nale											
355 468 489 537 559 575 598 643 646 658 658 668 679 CENSORED DEATH DAYS None DOSE = 300 ppm Female TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34 UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS None UNCENSORED DEATH DAYS None UNCENSORED DEATHS 17 CENSORED DEATHS 0 TOTAL 50 UNCENSORED DEATH S17 UNCENSORED DEATH DAYS 196 273 452 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS None	OTAL 50	50 UNCENSORED DEATHS 17 CENSORED DEATHS 0						TERMINAL 33							
694 722 726 CENSORED DEATH DAYS None OOSE = 300 ppm Female TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34 UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS None UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATHS 17 CENSORED DEATH DAYS 196 273 452 498 545 552 617 634 635 635 652 652 CENSORED DEATH DAYS 196 273 452 498 545 552 617 634 635 <td< td=""><td>NCENSOR</td><td>ORED</td><td>DEAT</td><td>TH DA`</td><td>YS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	NCENSOR	ORED	DEAT	TH DA`	YS										
None ODSE = 300 ppm Female TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34 UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS None V </th <th></th> <th></th> <th></th> <th></th> <th>537</th> <th>559</th> <th>575</th> <th>575</th> <th>598</th> <th>643</th> <th>646</th> <th>658</th> <th>658</th> <th>668</th> <th>679</th>					537	559	575	575	598	643	646	658	658	668	679
DOSE = 300 ppm Female UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34 UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS 0 VOSE = 1000 ppm Female VSE = 1000 ppm Female V	ENSORED	ED DE.	EATH	DAYS											
TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34 UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS	None														
UNCENSORED DEATH DAYS 238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS None ODSE = 1000 ppm Female TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 652 CENSORED DEATH DAYS None VOSE = 3000 ppm Female	SE = 300 ∣)0 ppi	om Fe	emale)										
238 286 327 370 469 483 523 546 575 580 587 634 666 680 CENSORED DEATH DAYS None OSE = 1000 ppm Female TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS None VINCENSORED DEATH DAYS OSE = 3000 ppm Female	OTAL 50)			ι	JNCENS	ORED D	EATHS 1	6	C	ENSOR	ED DEAT	THS 0		TERMINAL 34
693 697 CENSORED DEATH DAYS None	NCENSOR	ORED	DEAT	TH DA`	YS										
None OOSE = 1000 ppm Female TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS VORENSORED DEATH DAYS </td <td></td> <td></td> <td></td> <td>327</td> <td>370</td> <td>469</td> <td>483</td> <td>523</td> <td>546</td> <td>575</td> <td>580</td> <td>587</td> <td>634</td> <td>666</td> <td>680</td>				327	370	469	483	523	546	575	580	587	634	666	680
DOSE = 1000 ppm Female UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS CENSORED DEATH DAYS None VOSE = 3000 ppm Female VOSE = 3000 ppm Female	ENSORED	ED DE.	EATH	DAYS											
TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33 UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS None COSE = 3000 ppm Female CENSORED DEATH DAYS CENSORED DEATH DAYS CENSORED DEATH DAYS CENSORED DEATH DAYS	None														
UNCENSORED DEATH DAYS 196 273 452 498 545 546 552 617 634 635 635 635 652 652 658 722 722 CENSORED DEATH DAYS None DOSE = 3000 ppm Female	SE = 1000)00 pj	pm F	Femal	le										
196 273 452 498 545 546 552 617 634 635 635 652 652 CENSORED DEATH DAYS None DOSE = 3000 ppm Female	OTAL 50)			ι	JNCENS	ORED D	EATHS 1	17	C	ENSOR	ED DEAT	THS 0		TERMINAL 33
658 722 722 CENSORED DEATH DAYS None DOSE = 3000 ppm Female	NCENSOR	ORED	DEAT	TH DA`	YS										
None DOSE = 3000 ppm Female					498	545	546	552	617	634	635	635	635	652	652
DOSE = 3000 ppm Female	ENSORED	ED DE.	EATH	DAYS											
	None														
TOTAL 50UNCENSORED DEATHS 16CENSORED DEATHS 0TERMINAL 34	SE = 3000)00 pr	pm F	Femal	le										
	OTAL 50)			L	JNCENS	ORED D	EATHS 1	16	C	CENSOR	ED DEAT	THS 0		TERMINAL 34
UNCENSORED DEATH DAYS	NCENSOR	ORED	DEAT	TH DA`	YS										
410 522 523 523 600 618 639 641 643 651 669 677 697 708 712 727				523	523	600	618	639	641	643	651	669	677	697	708
CENSORED DEATH DAYS None		ED DE	EATH	DAYS											

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7 Date Report Requested: 07/11/2019 Time Report Requested: 11:44:18 First Dose M/F: 02/17/11 / 02/18/11 Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT **736** DAYS INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10	000 pp	m Fem	ale										
TOTAL 50 UNCENSORED DEATHS 1				8	C	ENSOR	ED DEAT		TERMINAL 32				
UNCENS	ORED DE	EATH DA	YS										
404 662	474 662	475 663	485 716	489	585	596	603	613	642	642	643	652	656
CENSOR	ED DEAT	TH DAYS											

None

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 736 DAYS

		KAP	LAN-ME		VIVAL PF	ROBABIL	ITY EST	IMATES	(%)	
DOSE TIME (DAYS)										
	90	180	270	365	425	485	545	605	665	736(A)
0 ppm Female	100.0	100.0	100.0	98.0	98.0	96.0	92.0	84.0	76.0	66.0
300 ppm Female	100.0	100.0	98.0	94.0	92.0	88.0	86.0	78.0	76.0	68.0
1000 ppm Female	100.0	100.0	98.0	96.0	96.0	94.0	90.0	86.0	70.0	66.0
3000 ppm Female	100.0	100.0	100.0	100.0	98.0	98.0	92.0	90.0	80.0	68.0
10000 ppm Female	100.0	100.0	100.0	100.0	98.0	92.0	90.0	84.0	66.0	64.0

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

Di(2-ethylhexyl) Phthalate CAS Number: 117-81-7

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 736 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female	
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%	68.0%	66.0%	68.0%	
SIGNIFICANCE (B) (LIFE TABLE)	P=0.834	P=1.000N	P=1.000	P=0.932N	
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	602.9 (24.1)	522.1 (37.1)	566.1 (35.1)	622.5 (21.8)	
MEAN LIFE SPAN (D) (STANDARD ERROR)	690.8 (12.1)	667.6 (18.4)	678.2 (16.4)	699.7 (10.2)	

DOSE	10000 ppm Female	
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%	
SIGNIFICANCE (B) (LIFE TABLE)	P=0.904	
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	592.3 (20.7)	
MEAN LIFE SPAN (D) (STANDARD ERROR)	684.3 (12.3)	

*** END OF REPORT ***

- (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)