

Huntingdon Life Sciences

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ATTENTION OF:	Dr. James B. Knaak	FROM:	R. E. Schroeder
COMPANY:	Occidental Chemical Corporation	DATE:	10 February 1997
FAX NUMBER:	972-404-3285	CC:	Dr. H. Shah CMA 703-741-6091

MESSAGE: 96-4080: Vinyl Chloride Combined Inhalation Two-generation Reproduction and Developmental Toxicity Study in CD rats. Daily chamber exposure data through Week 4.

Dear Dr. Knaak,

Attached are daily chamber exposure data for the referenced study. The bolded numbers on 30 January are the GC values. The next interval for the GC/IR comparative evaluations is this week. If you have any comments or questions concerning this format please call me or Gary Hoffman.

Regards,


Raymond E. Schroeder
Study Director

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Vinyl Chloride Combined Inhalation Two-Generation Reproduction
and Developmental Toxicity Study in CD Rats

96-4080

Chamber Monitoring Results

Cumulative Exposure Record

Group 1 - 0 ppm

Chamber Monitoring Results Cumulative Exposure Record Group I - 0 ppm														
Week	Date	Exposure Number	Miran (IR) ^a							Particle Size Determinations			Chamber Environment Mean	
			Mean (ppm)	Individual (ppm)						MMAD (µm)	GSD	TMC (mg/m ³)	Temperature (°C)	Humidity (%)
1	7-Jan-97	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.114	1.714	0.000541	22	41
	8-Jan-97	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	39
	9-Jan-97	3	0/0.80	0.0 ^b	0.0/1.2	0.0 ^b	0.0 ^b	0.0/1.2	0.0/0.0				23	42
	10-Jan-97	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	49
	13-Jan-97	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0				23	48
2	14-Jan-97	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.812	2.271	0.001290	22	41
	15-Jan-97	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	40
	16-Jan-97	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0				23	53
	17-Jan-97	9	0/0.099	0.0/0.593 ^c	0.0/0.0 ^d	0.0/0.0 ^d	0.0/0.0 ^d	0.0/0.0	0.0/0.0				22	42
	20-Jan-97	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	39
3	21-Jan-97	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.798	2.192	0.002000	22	38
	22-Jan-97	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0				23	40
	23-Jan-97	13	0/0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0				23	42
	24-Jan-97	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	34
	27-Jan-97	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0				22	34
4	28-Jan-97	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.101	2.014	0.001190	22	45
	29-Jan-97	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0				21	34
	30-Jan-97	18	0/0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0	0.0/0.0				20	32
	31-Jan-97	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0				20	37
	3-Feb-97	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0				21	40
Mean:			0.0	0.0 ^e						3.956	2.048	0.001255	22	41
SD:			0.0	0.0						2.253	-	0.000597	1	5

^a Bold values indicate GC confirmation of the IR sample

^b Due to equipment problems GC sample was not taken.

^c Mean and SD of all individual IR samples.

^d Mean and SD of all individual GC samples.

^e Samples taken before the sample line leak was repaired

^f Due to equipment problems Miran sample was not taken.

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Feb-10-97 02:30P Huntingdon Life Sciences

CMA 118841

CMA 118842

Vinyl Chloride Combined Inhalation Two-Generation Reproduction
and Developmental Toxicity Study in CD Rats

96-4080

Chamber Monitoring Results Cumulative Exposure Record Group II - 10 ppm															
Week	Date	Exposure Number	Chamber Concentration								Particle Size Determinations			Chamber Environment	
			Nominal (ppm)	Mean (ppm)	Miran (IR) ^a						MMAD (µm)	GSD	TMC (mg/m ³)	Mean	
					Individual (ppm)									Temperature (°C)	Humidity (%)
1	7-Jan-97	1	9.8	10	11	11	11	9.9	9.1	8.2	1.755	1.887	0.000221	21	42
	8-Jan-97	2	9.8	9.7	9.2	9.8	9.7	11	9.0	9.4				22	42
	9-Jan-97	3	9.8	9.5/14	9.4 ^b	9.3/14	9.2/13	9.7/14	10/13	9.2/14				22	42
	10-Jan-97	4	9.8	10	9.3	9.9	9.4	11	11	10				22	42
	13-Jan-97	5	9.8	10	10	10	10	10	10	11				22	42
2	14-Jan-97	6	9.8	9.7	9.3	9.9	10	10	9.6	9.6	2.152	2.555	0.001290	22	42
	15-Jan-97	7	9.8	10	11	9.9	10	10	10	10				22	42
	16-Jan-97	8	9.8	10	9.6	11	10	10	10	10				22	42
	17-Jan-97	9	9.4	9.5/7.6	7.2/0.95 ^c	8.0/2.7 ^c	11/2.9 ^c	11/13	10/12	10/14				22	42
	20-Jan-97	10	9.8	10	11	11	9.7	10	10	11				22	33
3	21-Jan-97	11	9.7	12	12	11	12	10	13	12	1.654	2.049	0.001310	24	33
	22-Jan-97	12	9.8	12	10	14	11	11	11	11				22	41
	23-Jan-97	13	9.8	11/14	12/14	11/14	11/14	11/13	11/13	11/13				25	42
	24-Jan-97	14	9.8	11	11	11	11	11	11	11				25	35
	27-Jan-97	15	9.8	10	8.8	11	11	10	11	11				24	36
4	28-Jan-97	16	9.8	11	10	11	11	11	11	11	1.616	1.647	0.000172	24	45
	29-Jan-97	17	9.8	11	11	11	11	10	10	10				25	35
	30-Jan-97	18	9.8	11/12	11/11	12/13	11/13	11/13	11/10	10/12				24	35
	31-Jan-97	19	9.8	11	11	11	11	11	11	11				27	29
	3-Feb-97	20	9.8	11	9.6	12	11	11	11	11				25	38
Mean:			9.8	10	10 ^e						1.794	2.035	0.000748	23	39
SD:			0.1	0.8	0.9						0.246	-	0.000637	2	4

^a Bold values indicate GC confirmation of the IR sample^b Due to equipment problems GC sample was not taken.^c Mean and SD of all individual IR samples^d Mean and SD of all individual GC samples^e Samples taken before the sample line leak was repaired^f Due to equipment problems Miran sample was not taken

Vinyl Chloride Combined Inhalation Two-Generation Reproduction
and Developmental Toxicity Study in CD Rats

96-4080

Chamber Monitoring Results Cumulative Exposure Record Group III - 100 ppm															
Week	Date	Exposure Number	Chamber Concentration								Particle Size Determinations			Chamber Environment	
			Nominal (ppm)	Mean (ppm)	Miran (IR) ^a						MMAD (µm)	GSD	TMC (mg/m ³)	Mean	
					Individual (ppm)									Temperature (°C)	Humidity (%)
1	7-Jan-97	1	94	97	95	95	100	96	94	100	7.015	2.056	0.001060	21	40
	8-Jan-97	2	94	100	99	110	100	110	100	100				20	40
	9-Jan-97	3	94	99/110	99 ^b	96/110	100/110	100/110	100/110	100/120				20	41
	10-Jan-97	4	94	98	97	97	99	95	100	100				21	42
	13-Jan-97	5	94	110	110	110	110	97	100	110				22	48
2	14-Jan-97	6	94	110	110	100	100	110	110	110	3.727	2.495	0.001940	23	40
	15-Jan-97	7	94	98	93	94	93	110	100	100				22	39
	16-Jan-97	8	94	96	94	93	96	96	98	96				23	57
	17-Jan-97	9	95	100/63	110/50 ^c	90/90 ^c	110/93 ^c	93/0.8 ^c	100/37 ^c	100/110				22	40
	20-Jan-97	10	94	100	100	100	110	110	100	100				22	40
3	21-Jan-97	11	94	110	100	110	110	100	110	110	1.356	1.487	0.001480	20	39
	22-Jan-97	12	94	110	110	110	110	100	100	100				21	43
	23-Jan-97	13	94	110/100	110/120	100/75 ^e	100/65 ^d	110/120	110/120	110/120				20	46
	24-Jan-97	14	94	99	100	98	100	99	100	98				20	44
	27-Jan-97	15	94	100	100	100	100	100	100	100				20	42
4	28-Jan-97	16	94	99	100	100	100	97	100	98	3.273	1.856	0.000427	20	47
	29-Jan-97	17	94	100	100	100	100	100	99	100				21	44
	30-Jan-97	18	94	110/130	110/140	100/120	110/130	110/130	110/130	100/130				20	45
	31-Jan-97	19	94	100	110	100	100	100	100	100				20	44
	3-Feb-97	20	94	100	100	100	110	100	100	100				21	44
Mean:			94	102	102 ^c		102 ^d			3.843	1.974	0.001227	21	43	
SD:			0.2	5.3	5.4		35			2.351	-	0.000643	1	4	

^a Bold values indicate GC confirmation of the IR sample^b Due to equipment problems GC sample was not taken.^c Mean and SD of all individual IR samples.^d Mean and SD of all individual GC samples^e Samples taken before the sample line leak was repaired^f Due to equipment problems Miran sample was not taken^g Samples taken before a leak in one fitting was discovered and repaired

Vinyl Chloride Combined Inhalation Two-Generation Reproduction
and Developmental Toxicity Study in CD Rats

96-4080

Chamber Monitoring Results

Cumulative Exposure Record

Group IV - 1100 ppm

Week	Date	Exposure Number	Chamber Concentration								Particle Size Determinations			Chamber Environment	
			Nominal (ppm)	Miran (IR) ^a							MMAD (µm)	GSD	TMC (mg/m ³)	Mean	
				Mean (ppm)	Individual (ppm)									Temperature (°C)	Humidity (%)
1	7-Jan-97	1	1100	1100	1200	1100	1100	1100	1100	1100	1.544	1.357	0.000227	20	45
	8-Jan-97	2	1100	1100	1100	1100	1200	1200	1100	1100				20	45
	9-Jan-97	3	1100	1200/1100	1100 ^b	1200/1200	1100/760	1200/1200	1200/1100	1100/1200				20	45
	10-Jan-97	4	1100	1100	1100	1100	1100	1100	1100	1100				20	45
	13-Jan-97	5	1100	1100	1200	1200	1100	1100	1100	1100				20	46
2	14-Jan-97	6	1100	1100	1100	1100	1100	1100	1200	1100	1.227	1.345	0.000705	20	45
	15-Jan-97	7	1100	1100	1100	1100	1100	1100	1100	1100				20	39
	16-Jan-97	8	1100	1100	1100	1100	1100	1100	1100	1100				20	42
	17-Jan-97	9	1100	1200/1300	1100/890 ^c	1100/1300	1300/1400	1200/1300	1200/1400	1200/1300				20	42
	20-Jan-97	10	1100	1200	1200	1200	1200	1200	1100	1200				21	43
3	21-Jan-97	11	1100	1100	1100	1100	1100	1200	1200	1100	1.404	1.837	0.001790	20	42
	22-Jan-97	12	1100	1100	1100	1100	1100	1100	1200	1100				21	48
	23-Jan-97	13	1100	1100/1300	1200/1400	1100/1300	1100/1300	1100/1300	1100/1300	1100/1300				21	52
	24-Jan-97	14	1100	1100	1100	1100	1100	1100	1100	1100				20	47
	27-Jan-97	15	1100	1100	1100	1100	1100	1100	1100	1100				20	47
4	28-Jan-97	16	1100	1100	1100	1100	1100	1100	1100	1100	1.325	1.336	0.000237	21	53
	29-Jan-97	17	1100	1100	1100	1100	1100	1100	1100	1100				21	47
	30-Jan-97	18	1100	1100/1400	1100/1500	1100/1400	1200/1500	1100/1400	1100/1400	1100/1400				20	53
	31-Jan-97	19	1100	1100	1100	1100	1100	1100	1100	1100				21	49
	3-Feb-97	20	1100	1100	1100	1100	1100	1100	1200	1200				21	49
Mean:			1100	1115	1122 ^c						1.375	1.469	0.000740	20	46
SD:			0	37	43						0.134	-	0.000735	0	4

^a Bold values indicate GC confirmation of the IR sample^b Due to equipment problems GC sample was not taken^c Mean and SD of all individual IR samples^d Mean and SD of all individual GC samples^e Samples taken before the sample line leak was repaired

CMA 118844
CMA 118845