## Section A6.8.1 Teratogenicity Study

**Annex Point IIA6.8** 

6.8.1 Developmental toxicity test in the rat

		1 REFERENCE	Official use only
1.1	Reference	1989, A Teratology Study with Dichlofluanid (EUPAREN VM90), , 1989-01-04 (unpublished)	
1.2	Data protection	Yes	
1.2.1	Data owner	Bayer CropScience AG	
1.2.2	Companies with letter of access	Bayer Chemicals AG	
1.2.3	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I/IA.	
		2 GUIDELINES AND QUALITY ASSURANCE	
2.1.1	Guideline study	Yes	
		Methods used in this study are in accordance with the recommendations of the OECD-Guideline 414 and the EPA, Pesticide Assessment Guidelines, Subdivision F, series 83.3.	
2.1.2	GLP	Yes	
2.1.3	Deviations	Yes	
		Compared with the OECD-Guideline 414, the following deviations could be ascertained:	
		<ul> <li>A post-treatment period of 5 days before caesarean section→ only the period of organogenesis was examined under treatment conditions.</li> </ul>	
		<ul> <li>Food consumption was not recorded in three-day intervals during the treatment period, and the examination days did not coincide with the body weight examination days.</li> </ul>	
		3 MATERIALS AND METHODS	
3.1	Test material	As given in section 2 of dossier.	
3.1.1	Lot/Batch number		
3.1.2	Specification	As given in section 2 of dossier.	
3.1.2.1	Description	White powder	
3.1.2.2	Purity		
3.1.2.3	Stability	A stability study demonstrated that refrigerated 1.25 % and 5.0 % suspensions of the test article in the aqueous 0.5 % w/v Emulphor vehicle remained stable for at least 28 days with less than 5 % deviation from the initial concentration. This was a sufficient time interval to assure stability during entire exposure period. Each test suspension was homogenous and the concentration of dichlofluanid was within the established departmental limits of variation ( $\pm$ 10 %) for a test suspension formulation.	
3.2	Test Animals		
3.2.1	Species	Rattus norvegicus	

## Section A6.8.1 Teratogenicity Study

Annex Point IIA6.8 6.8.1 Developmental toxicity test in the rat

3.2.2         Strain         Crl :CD BR           3.2.3         Source           3.2.4         Sex         Males (only for breeding) and females           3.2.5         Age/weight at study initiation         Weight: 340 – 410 g Age: 12 weeks           4 Age: 12 weeks         Females: Weight: 202 – 280 g Age: 11 weeks           3.2.6         Number of animals per group         28 inseminated females per group           3.2.7         Control animals         Yes           3.2.8         Mating period         Over night mating           3.3.1         Duration of Exposure         Day 6-15 post mating exposure           3.3.2         Post-exposure         5 days (from day 16 until day 20 of gestation)           3.3.3         Type         Gavage           3.3.4         Concentration         Gavage 0, 125, 250 or 500 mg/kg bw           3.3.5         Vehicle         Aqueous solution (0.5% v/v Emulphor solution)           3.3.6         Concentration in vehicle         0, 12.5, 25.0, 50.0 mg/ml           3.3.8         Controls         Vehicle           3.4         Examinations           3.4.1         Body weight         Yes           Days: 1, 6, 7, 12, 16, and 20 of gestation.           3.4.2         Food consumption         Yes <t< th=""><th colspan="2"></th><th>o.o.i Developmental toxicity test in the fat</th></t<>			o.o.i Developmental toxicity test in the fat
3.2.4       Sex       Males (only for breeding) and females         3.2.5       Age/weight at study initiation       Weight: 340 – 410 g Age: 12 weeks         Females: Weight: 202 – 280 g Age: 11 weeks       Weight: 202 – 280 g Age: 11 weeks         3.2.6       Number of animals per group       28 inseminated females per group         3.2.8       Mating period       Over night mating         3.3       Administration/ Exposure       Day 6-15 post mating exposure         3.3.1       Duration of exposure period       5 days (from day 16 until day 20 of gestation)         3.3.2       Post-exposure period       5 days (from day 16 until day 20 of gestation)         3.3.3       Type       Gavage         3.3.4       Concentration       Gavage 0, 125, 250 or 500 mg/kg bw         3.3.5       Vehicle       Aqueous solution (0.5% v/v Emulphor solution)         3.3.6       Concentration in vehicle       10.0 ml/kg bw applied         3.3.8       Controls       Vehicle         3.4       Examinations         3.4.1       Body weight       Yes         Days: 1, 6, 7, 12, 16, and 20 of gestation.         3.4.2       Food consumption       Yes         Days: 1, 6, 7, 12, 16, and 20 of gestation.	3.2.2	Strain	Crl :CD BR
3.2.5 Age/weight at study initiation    Males: Weight: 340 – 410 g Age: 12 weeks  Females: Weight: 202 – 280 g Age: 11 weeks  Separation    3.2.6 Number of animals per group    3.2.7 Control animals Yes  3.2.8 Mating period    3.3 Administration/ Exposure    3.3.1 Duration of exposure period    3.3.2 Post-exposure period    3.3.3 Type    3.3.4 Concentration    3.3.5 Gavage    3.3.6 Concentration in vehicle    3.3.7 Total volume applied    3.3.8 Controls    3.3.9 Vehicle    3.3.10 Vehicle    3.3.10 Controls    3.3.10 Vehicle    3.3.20 Post-exposure    3.3.31 Fype    3.3.40 Concentration in Separation    3.3.5 Vehicle    3.3.6 Concentration in Vehicle    3.3.7 Total volume applied    3.3.8 Controls    3.3.9 Vehicle    3.3.10 Vehicle    3.3.10 Vehicle    3.3.10 Total volume applied    3.3.10 Total volume applied    3.3.10 Total volume    3.3	3.2.3	Source	
initiation  Weight: 340 – 410 g Age: 12 weeks  Females: Weight: 202 – 280 g Age: 11 weeks  3.2.6 Number of animals per group  3.2.7 Control animals 28 inseminated females per group  3.2.8 Mating period  Over night mating  Oral  Exposure  3.3.1 Duration of exposure period  3.3.2 Post-exposure period  3.3.3 Type  Gavage  3.3.4 Concentration  Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle  Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls  Vehicle  3.4 Examinations  3.4.1 Body weight  Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption  Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs  Yes	3.2.4	Sex	Males (only for breeding) and females
Weight: 202 – 280 g Age: 11 weeks  3.2.6 Number of animals per group  3.2.7 Control animals Yes 3.2.8 Mating period Over night mating  3.3 Administration/ Exposure  3.3.1 Duration of Exposure  3.3.2 Post-exposure period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.2.5		Weight: 340 – 410 g
per group  3.2.7 Control animals Yes  3.2.8 Mating period Over night mating  3.3 Administration/ Exposure  3.3.1 Duration of exposure  3.3.2 Post-exposure period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes			Weight: 202 – 280 g
3.2.8 Mating period Over night mating 3.3. Administration/ Exposure 3.3.1 Duration of exposure 3.3.2 Post-exposure period 3.3.3 Type Gavage 3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution) 3.3.6 Concentration in vehicle 3.3.7 Total volume applied 3.3.8 Controls Vehicle 3.4 Examinations 3.4.1 Body weight Yes Days: 0, 6, 8, 10, 12, 15, and 20 of gestation. 3.4.2 Food consumption Yes Days: 1, 6, 7, 12, 16, and 20 of gestation. 3.4.3 Clinical signs Yes	3.2.6		28 inseminated females per group
3.3.1 Duration of exposure  3.3.2 Post-exposure  3.3.2 Post-exposure  5 days (from day 16 until day 20 of gestation) period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.2.7	Control animals	Yes
Exposure  3.3.1 Duration of exposure  3.3.2 Post-exposure period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.2.8	Mating period	Over night mating
exposure  3.3.2 Post-exposure period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.3		Oral
period  3.3.3 Type Gavage  3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.3.1		Day 6-15 post mating
3.3.4 Concentration Gavage 0, 125, 250 or 500 mg/kg bw  3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution)  3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.3.2		5 days (from day 16 until day 20 of gestation)
3.3.5 Vehicle Aqueous solution (0.5% v/v Emulphor solution) 3.3.6 Concentration in vehicle 3.3.7 Total volume applied 3.3.8 Controls Vehicle 3.4 Examinations 3.4.1 Body weight Yes Days: 0, 6, 8, 10, 12, 15, and 20 of gestation. 3.4.2 Food consumption Yes Days: 1, 6, 7, 12, 16, and 20 of gestation. 3.4.3 Clinical signs Yes	3.3.3	Type	Gavage
3.3.6 Concentration in vehicle  3.3.7 Total volume applied  3.3.8 Controls  Vehicle  3.4 Examinations  3.4.1 Body weight  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption  Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs  Yes	3.3.4	Concentration	Gavage 0, 125, 250 or 500 mg/kg bw
vehicle  3.3.7 Total volume applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.3.5	Vehicle	Aqueous solution (0.5% v/v Emulphor solution)
applied  3.3.8 Controls Vehicle  3.4 Examinations  3.4.1 Body weight Yes	3.3.6		0, 12.5, 25.0, 50.0 mg/ml
3.4 Examinations         3.4.1 Body weight       Yes         Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.         3.4.2 Food consumption       Yes         Days: 1, 6, 7, 12, 16, and 20 of gestation.         3.4.3 Clinical signs       Yes	3.3.7		10.0 ml/kg bw
3.4.1 Body weight Yes  Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.3.8	Controls	Vehicle
Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.  3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.4	Examinations	
3.4.2 Food consumption Yes  Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes	3.4.1	Body weight	Yes
Days: 1, 6, 7, 12, 16, and 20 of gestation.  3.4.3 Clinical signs Yes			Days: 0, 6, 8, 10, 12, 15, and 20 of gestation.
3.4.3 Clinical signs Yes	3.4.2	Food consumption	Yes
			Days: 1, 6, 7, 12, 16, and 20 of gestation.
Daily.	3.4.3	Clinical signs	Yes
			Daily.

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## Section A6.8.1 Teratogenicity Study

## Annex Point IIA6.8

#### 6.8.1 Developmental toxicity test in the rat

# 3.4.4 Examination of uterine content

Gravid uterine weight Number of corpora lutea Number of implantations

Number of embryonic or foetal death and viable foetuses, and degree of

resorption

Organ weights: uterus, placenta

Fertility index Gestation index

Pre- and post-implantation loss

3.4.5 Examination of

foetuses

3.4.5.1 General Litter Size, no. of dead foetuses, foetal weight, sex ratio, placenta

weight, external alterations (overall body conformation, position of pinnae, size and position of eye bulges, examination of palate,

examination of extremities),

3.4.5.2 Skelet

Yes

3.4.5.3 Soft tissue

Yes

## 3.5 Further remarks

#### 4 RESULTS AND DISCUSSION

# 4.1 Maternal toxic Effects

For the mid- and high-dose groups, there was a statistically significant reduction in mean body weight gain between days 6 and 8 of gestation. At the high-dose level, there was an actual loss of body weight (final dam weight less the weight of the intact uterus) between days 6 and 8 of gestation. There was also a statistically significant reduction in mean actual body weight gain for the high-dose group when compared to the control group.

Food consumption for the mid- and high-dose groups was significantly reduced on day 7 of gestation, when compared to the control group. After this initial reduction in food consumption, animals appeared to recover as with body weight and food consumption for both the mid- and the high-dose groups compared with the control group during the remainder of the study.

No further effects occurred.

## 4.2 Teratogenic / embryotoxic effects

The test substance did not affect any maternal reproductive parameters, and did not cause embryotoxicity (increased resorption), foetotoxicity (decreased foetal weight or late gestational death), teratogenicity (increased malformations) at maternally toxic dose levels up to and including 500 mg/kg.

Foetal sex ratios (expressed as the median percent of male foetuses) for each dose-level compared with the control group and were, except for a slightly low value of 43.2 for the high-dose group, which although below the historical control range (42.9 - 56.3) for this laboratory, was not considered to be meaningfully different from the control.

## 4.3 Other effects

#### Section A6.8.1 Teratogenicity Study

## Annex Point IIA6.8

6.8.1 Developmental toxicity test in the rat

#### 5 APPLICANT'S SUMMARY AND CONCLUSION

#### 5.1 Materials and methods

The study was conducted to determine the potential of dichlofluanid, administered orally by gavage, to induce maternal effects as well as to promote embryotoxicity, foetotoxicity, and/or teratogenicity in the rat.

The methods in this study used were in accordance with the OECD-Guideline 414 and the recommendations contained in EPA, Pesticide Assessment Guidelines, Subdivision F, series 83.3. Slight deviations occurred and were described in 2.3 (see above).

#### 5.2 Results and discussion

Dichlofluanid-related maternal toxicity was characterised by a reduction in body weight gain and food consumption at 250 and 500 mg/kg bw. The active substance did not affect maternal reproductive parameters and did not cause embryotoxicity (increased resorption), foetotoxicity (decreased foetal weight or late gestational death), teratogenicity (increased malformations) at any dose-level.

#### 5.3 Conclusion

Dichlofluanid caused maternal toxicity at dose-levels of 250 and 500 mg/kg. However, the test substance did not affect any maternal reproductive parameters and appears to be devoid of any potential to promote embryotoxicity, foetotoxicity, and/or teratogenicity at maternally toxic dose-levels up to and including 500 mg/kg. A dose of 500 mg/kg is considered the no observed effect level (NOEL) for developmental toxicity. A dose of 125 mg/kg is considered the NOEL for maternal toxicity.

5.3.1 LO(A)EL maternal toxic effects

Reduced body weight gain and feed consumption; LOEL: 250 mg/kg

5.3.2

toxic effects

NO(A)EL maternal NOEL: 125 mg/kg bw

5.3.3 LO(A)EL

embryotoxic / teratogenic effects

NOEL: 500 mg/kg bw

1

5.3.4 NO(A)EL

embryotoxic / teratogenic effects

5.3.5 Reliability

5.3.6 Deficiencies No

	Evaluation by Competent Authorities				
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted				
	EVALUATION BY RAPPORTEUR MEMBER STATE				
Date	29/10/04				
Materials and Methods	As described above [IUCLID 5.8.2 1/3]				
Results and discussion	As described above				
Conclusion	As described above				
Reliability	1				
Acceptability	Acceptable				
Remarks	The UK CA agrees with the applicant's summary and conclusions.				
	COMMENTS FROM				
Date	Give date of comments submitted				
Materials and Methods	Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion.  Discuss if deviating from view of rapporteur member state				
Results and discussion	Discuss if deviating from view of rapporteur member state				
Conclusion	Discuss if deviating from view of rapporteur member state				
Reliability	Discuss if deviating from view of rapporteur member state				
Acceptability	Discuss if deviating from view of rapporteur member state				
Remarks					

Table A6\_8-1. Table for Teratogenic effects

<u>Maternal effects</u>

Parameter	Contro	ol data	Low dose	Medium dose	High dose	Dose- response
	Historical range	Study	125 mg/kg bw	250 mg/kg bw	500 mg/kg bw	+/-
Number of dams examined		27	27	26	26	
Clinical findings during application of test substance		No tro				
Mortality of dams (%)	0%	0%	0%	0%	0%	-
Abortions		0	0	0	0	-
<b>Mean body weight gain,</b> gain (mean ± s.e.)						
day 6-8		$7.9 \pm 0.9$	$5.6 \pm 0.7$	2.0* ± 1.1	-3.7*± 1.5	+
day 8-10		$9.6 \pm 1.0$	$10.1 \pm 0.9$	10.9 ± 1.2	$13.4 \pm 1.5$	-
day 6-15		$43.1 \pm 2.2$	43.9 ± 1.5	$39.7 \pm 2.2$	$37.2 \pm 1.8$	-
day 0-end of test		$132.2 \pm 4.2$	133.1 ± 3.6	$129.3 \pm 3.6$	121.3 ± 3.1	-
final dam weight less weight of intact uterus		54.0 ± 2.6	54.8 ± 2.4	$51.3 \pm 2.2$	42.2**± 1.9	+
<b>Mean food consumption</b> (mean ± s.e.)						
day 1		$20.7 \pm 0.5$	$20.4 \pm 0.6$	$20.4 \pm 0.6$	$20.8 \pm 0.8$	-
day 6		$22.2 \pm 0.7$	$22.8 \pm 0.5$	$22.5 \pm 0.6$	$22.1 \pm 0.8$	-
day 7		$21.0 \pm 0.7$	$20.3 \pm 0.7$	$15.7* \pm 0.7$	$13.2* \pm 0.7$	+
day 12		$24.8 \pm 0.7$	$25.7 \pm 0.6$	$23.6 \pm 0.7$	$24.0 \pm 0.6$	-
day 16		$26.0 \pm 0.6$	$27.5 \pm 0.6$	$27.0 \pm 0.9$	$26.6 \pm 0.6$	-
day 20		$26.5 \pm 1.0$	$27.3 \pm 0.7$	$28.3 \pm 0.5$	$28.3 \pm 0.5$	-
Pregnancies		27/28	27/28	26/28	26/28	-
pregnant animals/number of animals inseminated (% pregnancy)	(68.0 –100)	(96.4)	(96.4)	(92.9)	(92.9)	
Necropsy findings in dams dead before end of test		No animals died before end of the test.				

<sup>\*</sup> difference against control  $p \le 0.05$  significant (Dunnett's test)

<sup>\*\*</sup> difference against control  $p \le 0.01$  significant (Dunnett's test)

Table A6\_8-2. Table for Teratogenic effects

<u>Litter response (Caesarean section data)</u>

Parameter	Control data		Low dose	Medium dose	High dose	Dose-
			125 mg/kg bw	250 mg/kg bw	500 mg/kg bw	response + / -
	Historical range	Study				
Corpora lutea	13.3-16.6	15.3	16.3	15.8	15.6	-
mean (range)	(1-26)	(12-18)	(14-19)	(13-20)	(12-19)	
Implantations	mean	397/27	417/27	390/26	384/26	-
total/number of dams	11.6-15.4					
Resorptions	total	24/27	45 <sup>§</sup> /27	28/26	22/26	-
total/number of dams	8-32					
Total number of foetuses	146-386	373	372	362	362	-
Pre-implantation loss mean (%)	3.0-18.8	5.0	7.2	6.9	6.2	-
Post-implantation loss mean (%)	2.8-13.7	7.0	10.7	7.2	5.6	-
Total number of litters	12-28	27	27	26	26	-
Foetuses / litter	10.9-14.4	13.8	13.8	13.9	13.9	-
mean (range)	(1-20)	(2-17)	(5-18)	(4-20)	(6-18)	
Total number of live foetuses		373	372	361	362	-
Total number of dead foetuses	0-8	0	0	1	0	-
Foetus weight (median) [g]	3.4-4.0	3.6	3.7	3.6	3.6	-
Placenta weight (median) [g]	0.5-0.55	0.53	0.53	0.50*	0.51	-
Crown-rump length (mean) [mm]		Not determined.				
Median percent male foetuses	42.9-56.3	50.0	53.3	53.6	42.3§	-

<sup>\*</sup> difference against control  $p \le 0.05$  significant (Kruskal-Wallis and Dunn's tests)

<sup>§</sup> outside the historical control range

Table A6\_8-3. Table for Teratogenic effects

<u>Examination of the fetuses</u>

Parameter	Control data		Low dose 125 mg/kg bw	Medium dose 250 mg/kg bw	High dose 500 mg/kg bw	Dose- response +/-
	Historical range	Study				
External malformations* [%]	0-11.5/ 0-0.9	0/0	0/0	0/0	3.8/0.3	-
<b>Skeletal malformations</b> * [%]	0-18.8/ 0-4.2	0/0	0/0	3.8/0.5	11.5/1.6	-
Skeletal variants* [%] extra ribs	10.7-66.7/ 0.5-15.7	3.7/0.5	7.4/1.0	19.2/3.3	7.7/1.1	-
additional pre-sacral vertebrae or sacral shift	0-66.7/ 0-1.9	0/0	0/0	0/0	7.7/1.1	-
Visceral malformations* [%]	0-24.0/ 0-3.5	0/0	3.7/0.6	0/0	7.7/1.1	-

<sup>\*</sup>litter incidence/foetal incidence