

4-1-91



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

APR 1 1991

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OFFICE OF  
PESTICIDES AND TOXIC  
SUBSTANCES

MEMORANDUM

**SUBJECT:** Ronilan Fungicide 50W [Vinclozolin] Toxicology Data  
Submitted under MRID Nos. 417030-01, -02, and  
417093-01  
ID No. 007969-00053

Chemical (Caswell) No.: 323C  
RD Record No.: S-387603  
HED Project No.: 1-0337

**FROM:** Irving Mauer, Ph.D., Geneticist  
Toxicology Branch I - Insecticide, Rodenticide Support  
Health Effects Division (H7509C) *Irving Mauer 03/24/91*

**TO:** Susan Lewis/James Stone, PM Team 21  
Herbicide-Fungicide Branch  
Registration Division (H7505C)

**THRU:** Karl P. Baetcke, Ph.D., Chief  
Toxicology branch I - Insecticide, Rodenticide Support  
Health Effects Division (H7509C) *Karl P. Baetcke 3/25/91*

Registrant: BASF Corporation, RTP (NC)

Request

Review and evaluate the following three documents,  
submitted toward the registration of Ronilan® Fungicide 50W,  
as well as to report adverse data under FIFRA 6(a)(2):

Submission 1: INTERIM REPORT: Study of the Chronic  
Toxicity of Registration No. 83-258 (VINCLO-  
ZOLIN) in Wistar Rats. Project No. 71S0375/  
88026, performed by BASF Aktiengesellschaft,  
Department of Toxicology, Germany, 6700  
Ludwigshafen (EPA MRID No. 41703001).

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Submission 2: INTERIM REPORT: In Vitro Study on Dermal Penetration of Registration No. 83-258 (VINCLOZOLIN) [in] Human and Rat Skin. Project No. 11B0481/909008, performed by Inveresk Research International (IRI), Musselburgh (Scotland, UK) (EPA MRID No. 41703002).

- Submission 3:
- A. Report on the Study of the Prenatal Toxicity of Registration No. 83-258 (Vinclozolin) in Rabbits After Oral Administration (Gavage), Project No.: 38R0375/88062, Final Report dated February 14, 1990; study performed by BASF Aktiengesellschaft, Department of Toxicology, D-6700 Ludwigshafen (Federal Republic of Germany) (EPA MRID No. 417093-01).
  - B. Report on the Supplementary Study of the Prenatal Toxicity of Registration No. 83-258 (Vinclozolin) in Rabbits After Oral Administration (Gavage), Project No.: 40R0375/88077 (Supplementary to the Final Report of Project No. 38R0375/88062), Final Report dated February 22, 1990. (MRID No. 415305-01).

### TB Conclusions

Submissions 1 and 2 constitute interim reports of adverse effects reportable under FIFRA 6(a)(2) and are hereby noted, but are considered by the Agency as SUPPLEMENTARY DATA only, pending submission of the Final Reports of these studies (see attached abbreviated TB appraisals). Submission 3 (Developmental Toxicity - Rabbit), consisting of the two reports, A and B above, under submission 3, is fully reviewed and evaluated as CORE-MINIMUM, demonstrating the following parameters (see attached detailed review):

Doses tested: 0, 50, 200, 400, and 800 mg/kg/day administered by oral gavage from gestation days 7 to 28.

Maternal NOEL = 50 mg/kg/day  
Maternal LOEL = 200 mg/kg/day  
Developmental NOEL = 200 mg/kg/day  
Developmental LOEL = 400 mg/kg/day  
A/D Ratio = 0.25

Attachments (DERs)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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OFFICE OF  
PESTICIDES AND TOXIC  
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March 20, 1991

MEMORANDUM

SUBJECT: Change of Core Classification of Inhalation Study on  
the Technical Fortress (IN 43898)

MRID No.: 408237-16  
Document No.: 007111

From: Henry Spencer *Handwritten: 3/25/91*  
Head, Review Section III  
Toxicology Branch I  
Health Effects Division (H7509C)

To: Ester Saito  
SACB  
Health Effects Division (H7509C)

INFO: Karl Baetcke, Chief *Handwritten: Karl Baetcke 3/25/91*  
Toxicology Branch I  
Health Effects Division (H7509C)

The study is reclassified as invalid due to the deficiencies  
noted on (pp2) of the review.

Additionally, rats and rabbits are discussed in the review  
which should only refer to rats as changed.

A new study is not required as was stated in the original  
SEP in Document 007112.7

**BEST AVAILABLE COPY**

Reviewed By: Irving Mauer, Ph.D., Geneticist  
Toxicology Branch I - IRS (H7505C)  
Secondary Reviewer: Karl P. Baetcke, Ph.D., Chief  
Toxicology Branch I - IRS (H7505C)

*J. Mauer*  
03/01/91  
*Henry Spencer for*  
3/25/91

DATA EVALUATION RECORD  
(Abbreviated)

008311

I. SUMMARY

MRID No.: 417030-01  
ID No.: 7969-53  
RD Record No.: S-387603  
Caswell No.: 323C  
Project No.: 1-0337

Study Type: (83-1) Chronic Toxicity - Rat

Chemical: Vinclozolin (BASF 83-258)

Synonyms: Ronilan®

Sponsor: BASF, RTP (NC)

Testing Facility: BASF Aktiengesellschaft, Department of  
Toxicology, 6700 Ludwigshafen, Germany

Title of Report: INTERIM REPORT: Study of the Chronic  
Toxicity of Registration No. 83-258  
(VINCLÖZOLIN) in Wistar Rats, Project No.  
71S0375/88026.

Authors: None

Study Number: 71S0375/88026 (Reg. Doc. No. 90/0478)

Date of Issue: September 3, 1990/November 16, 1990

TB Conclusions:

Doses tested: 0, 150, 500, 1500, and 4500 ppm in feed  
for 24 months; 20 males/20 females per dose group.

Classification (Core-Grade):

CORE-SUPPLEMENTARY. Preliminary results only,  
summarizing gross pathological findings comprising possible  
6(a)(2) data (see attached), namely, anti-androgenic activity  
and ophthalmological findings.

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II. DETAILED REVIEW

A. Test Material - BASF 83-258 (vinclozolin)  
[No other description]

B. Test Organism - Rodent

Species: Rat  
Strain: Wistar  
Age: Not stated  
Weights - Males: Not stated  
              Females: Not stated  
Source: Not stated

C. Study Design (Protocol) - This study was designed to assess the chronic toxicity potential of vinclozolin when administered by dietary feed to male and female Wistar rats.

Statements of Quality Assurance measures (inspections/ audits) and of adherence of Good Laboratory Practice were both included in this Interim Report.

D. Preliminary TB Evaluation- As described in this Interim Report, compound and/or dose-dependent increases were found in the incidence of cataracts and enlarged/dyscolored adrenals in both sexes; hepatic nodules/nodular formations (collectively termed "masses"), especially in high-dose males; bilateral testicular lesions, coincident with reductions in size of accessory sex organs; and, uni-/bi-lateral ovarian masses (which the investigators suggested might have included enlarged corpora lutea).

The investigators submitted that the 1500 ppm dose level already represented a maximum tolerated dose (at least for carcinogenicity), and thus the HDT (4500 ppm) was excessive. However, they did not suggest NOELs for non-neoplastic findings, and there does not appear to be any no-effect levels, at least for ophthalmological lesions, and potential anti-androgenic effects.

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Preliminary Findings (Interim Report) 1/

Observation	Dose level (ppm)									
	0		150		500		1500		4500	
	M	F	M	F	M	F	M	F	M	F
Body weight (g)	684	444	735	440	713	442	593	373	457	309
Cataracts (n)	0	0	0	2	7	14	18	19	20	20
SGGT (Liver)	--	--	--	--	--	--	--	--	Incr	Incr
HEMATOLOGY	--	--	--	--	--	--	Aff	Aft	Incr	Aff
<u>Necropsy:</u> Masses in										
- Liver	1	0	0	2	2	0	2	0	7	2
- Testes	8	--	13	--	17	--	19	--	20	--
- Ovaries	--	1	--	1	--	2	--	4	--	6
<u>Reduced:</u>										
- Epididymis	0	--	2	--	5	--	9	--	13	--
- Prostate	1	--	3	--	4	--	12	--	15	--
- Sem. vesicle	4	--	5	--	5	--	13	--	15	--
<u>Adrenals:</u>										
Discoloration	0	0	1	0	4	6	10	16	19	18
Mass	1	1	1	1	1	--	1	--	--	1
Enlarged	1	5	0	1	1	6	4	15	16	16

Extracted from Tables 1 through 41 of the Interim Report

Reviewed By: Irving Mauer, Ph.D., Geneticist  
Toxicology Branch I - IRS - (H7509C)  
Secondary Reviewer: Karl P. Baetcke, Ph.D., Chief  
Toxicology Branch I - IRS - (H7509C)

*J. Mauer*  
03/01/91

*Karl P. Baetcke*  
3/25/91

DATA EVALUATION RECORD  
(Abbreviated)

008371

I. SUMMARY

MRID No.: 417030-02  
ID No.: 7969-53  
RD Record No.: S-387603  
Caswell No.: 3427  
Project No.: 1-0137

Study Type: (85-2) Dermal penetration - in vitro

Chemical: Vinclozolin (BASF 83-258)

Synonyms: Ronilan®

Sponsor: BASF, RTP (NC)

Testing Facility: Inveresk Research International (IRI)  
Musselburgh (UK)

Title of Report: INTERIM REPORT: In Vitro Study on Dermal  
Penetration of Registration No. 33-258  
(VINCLOZOLIN) Human and Rat Skin, Project  
No. 11B0481/909008.

Authors: None

Study Number: 11B0481/909008

Date of Issue: November 21, 1990

TB Conclusions:

This interim report consists of unrefined raw data from  
in vitro exposures to rat and human epidermis preparations,  
at two levels, 2.9 and 200  $\mu\text{g}/\text{cm}^2$ .

Classification (Core-Grade): CORE-SUPPLEMENTARY

II. DETAILED REVIEW

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- A. Test Material - No details provided.
- B. Test Organism - No specifics provided.
- C. Study Design (Protocol) - This study was designed to assess the dermal penetration potential of vinclozolin when administered in vitro to human and rat skin samples.

A Statement of Quality Assurance measures (inspections/ audits) was not provided; however, a Statement of Adherence to Good Laboratory Practice was included in this Interim Report.

- D. Preliminary TB Evaluation - As summarized by the investigators, there appears to be large species differences in percutaneous transport at both dose levels, based upon compound absorption expressed as percent of the applied dose, with significantly higher values registered for rodent preparations, as follows (given as mean of means, calculated by the reviewer from summary tabulations provided in this Interim Report):

DOSE ( $\mu\text{g}/\text{cm}^2$ )	SPECIES	ABSORPTION (%) at:	
		8 HR p/d/	24 HR p.d.
"Low: (2.9)	Rat	76.6	84.1
	Human	6.4	13.0
"High" 200.0)	Rat	32.4	55.1
	Human	1.2	2.0

However, no definitive conclusions (nor, "margins of exposure/safety") can be drawn from these preliminary data, pending provision (in the Final Report to come) of at least sex of and exact location of the skin specimens, as well as other details of procedure and methods of analysis.



Reviewed By: Irving Mauer, Ph.D., Geneticist  
Toxicology Branch I - IRS (H7509C)  
Secondary Reviewer: Karl P. Baetcke, Ph.D., Chief  
Toxicology Branch I - IRS (H7509C)

*J. Mauer*  
03/01/91  
*K. P. Baetcke for*  
3/25/91

DATA EVALUATION RECORD

008311

I. SUMMARY

MRID No.: 417093-01  
ID No.: 7969-53  
RD Record No.: S-387603  
Caswell No.: 323C  
Project No.: 1-0337

Study Type: (83-3) Developmental Toxicity - Rabbit

Chemical: Vinclozolin

Synonyms: Ronilan®

Sponsor: BASF Agricultural, RTP (NC)

Testing Facility: BASF Aktiengesellschaft, Department of  
Toxicology, Ludwigshafen (W. Germany)

Title of Report: Report on the Study of the Prenatal Toxicity  
of Registration No. 83-258 (Vinclozolin)  
in Rabbits After Oral Administration  
(Gavage).

Authors: E.P. Gelbke

Study Number: Project Nos. 38R0375/88062 and 40R0375/88077  
(Regis. Doc. Nos. BASF 90/0050 and 90/0051)

Date of Issue: February 14, 1990

TB Conclusions:

Doses tested: 0, 50, 200, 400, and 800 mg/kg/day by  
gavage from gestation day 7 thru day 28.

Maternal NOEL = 50 mg/kg/day

Maternal LOEL = 200 mg/kg/day (decreased food  
consumption; increased liver, adrenal  
weights).

Developmental NOEL = 200 mg/kg/day

Developmental LOEL = 400 mg/kg/day (increased  
resorptions/decreased live litter  
size)

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In addition, at higher doses (400, 800 mg/kg/day):

- dose-related reductions in maternal body weight
- abortions

A/D Ratio = 0.25

Classification (Core-Grade): CORE-MINIMUM

## II. DETAILED REVIEW

A. Test Material - Registration No. 83-253 (vinclozolin)

Description: Solid: white powder  
Batch (Lot) No.: N 183  
Purity (%): 99.2  
Solvent/Carrier/Diluent: Double-distilled water  
containing 0.5 percent  
carboxymethyl cellulose  
(CMC)

B. Test Organism - Lagomorph

Species: Rabbit  
Strain: Himalayan (Chbs:HM - outbred)  
Age: ("Sexually mature") 25 to 32 weeks  
Weight: Females (only): 2715 g  
Source: Karl Thomae, Eberach-an-der-Riss (FRG)

C. Study Design (Protocol) - This study was designed to assess the developmentally toxic potential of vinclozolin when administered by oral gavage to pregnant rabbits, according to OECD and EPA Test Guidelines.

Statements of Quality Assurance measures (inspections/audits) and of adherence to Good Laboratory Practice were both provided.

D. Procedures/Methods of Analysis - Following preliminary toxicity testing in both nonpregnant and pregnant NZW females (0, 100, 300, and 900 mg/kg/day for 21 days non-pregnant; 0, 20, 80, and 300 mg/kg/day for only 13 days during early pregnancy in the latter group), three groups of 15 artificially inseminated\* females each (pretreated with LH/FSE im) were administered test article (or CMC vehicle) by oral intubation (in a constant volume of 10 mL vehicle) once daily from gestation days 7 through 28. On day 29 gestation, all surviving animals were bled, sacrificed, internal organs examined, and fetuses dissected from uteri.

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\*With semen from healthy male Himalayans.

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Full rosters of maternal parameters\* are recorded at necropsy, corpora lutea enumerated, and the number and distribution of implantation sites classified (as live, dead, early, and late resorptions, as well as dead fetuses). Pregnancy rate and ratios of pre- and post-implantation losses were calculated according to standard conventions. All fetuses were sexed, weighed, and examined macroscopically, then sacrificed for soft tissue examination (by Wilson's method), followed by Dawson's method for skeletal assessments.

Fetal external, soft tissue, and skeletal "changes" (defects and/or variations) are classified by these investigators as follows (extracted from text page 19 of the Final Report):

- " - Malformations . . . Rare and/or probably lethal [i.e., life-threatening] changes . . . [such as] (exencephaly, atresia ani, hernia umbilicus).
- " - Variations . . . Changes which occur regularly [in test] as well as in control groups and have generally no adverse effect on survival . . . [such as] (dilated renal pelvis).
- " - Retardations . . . Delays in skeletal development compared with the norm at the time of examination . . . [such as] (sternbrae not ossified).
- " - Unclassified . . . external and soft tissue observations which cannot be classified as malformations, variations, or retardations . . . [such as] (focal liver necrosis).

\*Clinical: body weight (every 2 to 3 days)  
 - food consumption (same freq.)  
 - signs (daily)  
 - mortality (daily)

Hematological: WBC - CBC (differential)  
 RBC - CBC (differential)  
 Hct  
 MCV  
 MCH  
 MCHC  
 Platelets

Gross pathology: Liver  
 (incl. organ Spleen  
 weights) Adrenals  
 Uterus  
 Ovaries

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For statistical evaluation of the data, the following tests were applied (with significance recorded at both 5 and 1 percent):

Dunnett's . . . for food consumption, body weight, b.w. change, corrected b.w. gain (net maternal weight change); weights of liver, adrenal, placentae, and uterus; numbers of fetuses, corpora lutea implantations, pre- and postimplantation losses, resorptions, and live fetuses.

Fisher's Exact . . . for conception rate, maternal mortality, and all (other) fetal findings.

Analysis of Variance (ANCOVA), followed by Dunnett's . . . for hematological parameters (except for differential counts).

- E. Results - In the preliminary 3-week test with virgin females, vinclozolin was severely toxic at the HDT, 900 mg/kg (producing universal lethargy and weakness, coupled with large weight loss), moderately so at the mid-dose (300 mg/kg), and minimally at 100 mg/kg. On the other hand, no maternal or reproductive toxicities were observed at any dose in pregnant does treated for the shorter period; while dose-dependent reductions in both mean whole-litter and individual fetal weights compared to concurrent controls were calculated, no value was outside the range of this lab's historical background control. On the basis of these results, 800 mg/kg was selected as the top dose for the definitive study (expected to produce both maternal and possible fetal effects); 200 mg/kg as the mid-dose (possible minimally toxic for dams and/or fetuses); and 50 mg/kg as an expected NOEL.

[NB: However, due to the fact that only 2 does of the high-dose group (800 mg/kg/day) were available for scheduled sacrifice (and only one of these was pregnant), while all other high-dose animals died or had to be sacrificed intercurrently after abortion, only a limited assessment could be made for this test group.

Hence, a supplemental study was conducted at oral doses of 400 mg/kg administered daily to 20 does from day 7 thru 28 of gestation. The results of this additional assay (SASF Project 40R0375/88077) are incorporated with those from the definitive study (38R0375/88062) in this DER. A summary of selected (significant) data extracted from both

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Final Reports is presented on the following page of this DER.]

One mid-dose female of the definitive study (No. 58-478/33) aborted on day 12 of gestation and was sacrificed in extremis a week later; all other mid-dose does survived to scheduled sacrifice. Only 2 of the 15 high-dose animals (800 mg/kg/day) survived to study termination (and only one of these was pregnant); one doe was found dead on day 19, one died after aborting on day 20, and 12 others were sacrificed following abortions during the course of treatment. Although none of the 20 does administered 400 mg/kg/day in the supplementary study died intercurrently, 10 did abort.

Food consumption by high-dosed does (400 and 800 mg/kg) was significantly reduced during the greater portion of their treatment periods; that by 200 mg/kg females only early in treatment, compensated for in the latter portion of the study by increased values. This consistent decreased food intake no doubt contributed to significant decreased mean body weights and weight gains among does at the HDT (800 mg/kg), less so for 400 mg/kg animals (where only a significant deficit in weight gain at midtreatment was observed).

Other clinical manifestations of maternal toxicity during the 21 days of treatment were observed at doses above 50 mg/kg, namely, gastrointestinal disturbances (manifested as reduced/absent defecation and/or discolored urine), lesions in major organs (dilation/discoloration in liver, kidney, and heart), and hemotoxicity (manifested as increased reticulocytes) in both 400 and 800 mg/kg groups; enlarged livers and adrenals (increased absolute weight) in 200, 400, and 800 mg/kg groups.

Concordant with the propensity for compound and dose-related abortion at high dose levels (10/20 at 400 mg/kg; 13/15 at 800 mg/kg) were reproduction and fetal changes at these levels. Some form of adverse changes were found in implantations, leading to significantly increased postimplant loss (approximately 33% and 43%, respectively, at 400 and 800 mg/kg, compared to 5 to 10% in concurrent controls, and a background range for this lab of 4.9 to 18.4%), coincident with decreased percent of live fetuses (54% and 57%). Mean fetal weight was not adversely affected even at the HDT; the apparently increased mean fetal weight among 400-mg/kg-treated pregnancies (= 44.5 g, compared to the concurrent control value of 39.9 g) was ascribable to the lower number of live fetuses in this group (but was within the lab historical range of 31.7 to 49.5 g).

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Clinical, Reproductive, and Fetal Effects of Oral  
Vinclozolin Administered to Rabbits from  
Gestation Day 7 Through Day 28<sup>1/</sup>

Observation	Dose Group (mg/kg/day)					
	0 <sup>2</sup>	50 <sup>2</sup>	200 <sup>2</sup>	800 <sup>2/</sup>	400 <sup>3/</sup>	0 <sup>3/</sup>
<u>Maternal clinical data:</u>						
Unscheduled deaths	0	0	0	2 <sup>4/</sup>	0	0
Abortions	0	0	1	12	10	0
Mean wt. gain (g):						
- Day 16	2811	2843	2802	2569**	2592	2685
- Day 25	2861	2892	2856	2373**	2711	2740
Mean body wt. (g):						
- To day 16	33.1	49.1	32.0	-110.3**	-19.6*	19.0
- To day 25	43.5	54.7	56.8	-39.1**	17.7	44.7
Reduced activity	0	0	0	2	0	0
Reduced defecation	0	0	1	15	15	0
Discolored urine	0	0	1	13	8	0
Reticulocytes (0/00)	16	16	17	67**	29**	16
Abs. liver wt. (g)	53.55	57.91	81.46**	144.31**	85.56**	50.03
Rel. liver wt. (%)	1.81	1.94	2.69**	5.32**	3.05**	1.78
Abs. adrenal wt. (g)	0.20	0.21	0.24*	0.26*	0.23	0.21
Rel. adrenal wt. (%)	0.01	0.01	0.01	0.01	0.01	0.01
<u>Maternal necropsy/ reproduction data:</u>						
Heart changes	0	0	0	3	7	0
Implant changes	0	0	1	12	10	0
Postimpl. loss (%)	4.9	6.1	8.9	42.9*	32.9*	10.3
Live fetuses (%)	95.1	93.9	91.1	57.1*	53.9*	89.7
<u>Fetal data:</u>						
Mean wt. (g)	40.9	43.7	42.6	38.4	44.5*	39.9
Malformed sternbrae (%)	0	1.1	0	25.0*	0	1.7
Retarded ossification (%)	58.3	57.4	59.6	75.0*	33.3	58.1

<sup>1/</sup>Selected observations and group data extracted from summary and individual animal data tables in both Final Reports.

<sup>2/</sup>Main ("definitive") study, BASF Project No. 38R0375/88062 (15/group)

<sup>3/</sup>Supplemental study, BASF Project No. 40R0375/88077 (20/group)

<sup>4/</sup>One after aborting

\*Significantly different from control, p < 0.05

\*\*Significantly different from control, p < 0.01

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There were <sup>no</sup>/~~no~~ fetuses with either external or soft-tissue malformations considered to be compound-related, even at the HDT. As recorded by the investigators, the only statistically significant fetal finding was malformed sternbrae in one of four fetuses in the one high-dose (800 mg/kg) litter (amounting to 25% of surviving fetuses at this dose). This finding was considered as being without biological relevance on account of the limited number of high dose fetuses which could be evaluated at this dose level, and the occurrence of the same incidence of this finding in the fetuses of test group 1 (50 mg/kg body weight/day), as well as in historical controls (but not present in either 200 or 400 mg/kg fetuses). The only other anomaly recorded was a slight (but significant) increase in overall delayed ossification among the three remaining fetuses of the HDT group.

Other fetal findings (malformations, variations, retardations, or unclassified observations) occurred in all test groups, including the current control, with the similar incidences, as well as in the background (historical control). Specifically (and in contrast to findings in fetal rats), there were no compound-related effects on the genitalia of male fetuses. The investigators concluded that the oral administration of vinclozolin to pregnant rabbits from gestation day 7 through 28 p.i. at dose levels of 50, 200, 400, and 800 mg/kg/day caused dose-related reductions in body weight and food consumption at higher doses (400, 800 mg/kg), accompanied by abortions and other adverse clinical, hematological, and organ changes, as well as increased postimplant loss and possibly fetal skeletal variations.

Since 200 mg/kg does ate less and showed statistically significant increased absolute and relative liver weight as well as increased absolute adrenal weight, 50 mg/kg/day was considered the maternal NOEL.

Embryo/fetotoxicity and/or adverse fetal effects were also found only at higher dosage levels, and none at 200 mg/kg/day which was thus considered the fetal NOEL.

**TB Conclusions - CORE-MINIMUM.** Although performed in separate assays (due to severe toxicity in the definitive study at the HDT), this investigation in toto satisfies the minimal criteria for a developmental toxicity study of this test substance in the second species (rabbit), and provides the following established parameters:

Doses tested: 0, 50, 200, 400, and 800 mg/kg/day but oral intubation from gestation day 7 through 28.



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Maternal MCEI = 50 mg/kg/day  
LOEL = 200 mg/kg/day (decr. food consumption;  
increased liver/adrenal weight)

Developmental/fetal NOEL = 200 mg/kg/day  
LOEL = 400 mg/kg/day (incr.  
resorptions; decreased live  
litter size).

A/D Ratio = 50/200 = 0.25

Attachments (Summary Data Tables)

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[Two-Sided]  
Attachment 1  
(Summary Data Tables)

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A. MAIN STUDY (Doses: 0, 50, 200, 800 mg/kg)

11-DEC-69

00062

TABLE : 001

PROJECT NO. 3800375/88062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION -- GRAMS/ANIMAL/DAY

DAYS 0 TO 1	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/MG CM/DAY		TEST GROUP 2 200 MG/MG CM/DAY		TEST GROUP 3 800 MG/MG CM/DAY	
	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N
DAYS 0 TO 1	111.0 22.65 15	120.3 23.08 15	113.8 14.93 15	113.7 32.88 14				
DAYS 1 TO 2	123.0 20.05 15	129.6 18.41 15	126.9 13.51 15	129.3 26.18 14				
DAYS 2 TO 3	111.8 28.68 15	122.3 22.28 15	114.9 12.63 15	121.5 23.39 14				
DAYS 3 TO 4	116.0 33.48 15	127.8 18.83 14	119.7 14.65 15	124.8 24.66 14				
DAYS 4 TO 5	108.1 31.00 15	119.9 22.08 15	106.7 14.78 15	118.6 22.29 14				
DAYS 5 TO 6	115.1 28.33 15	117.7 22.88 15	106.0 8.96 15	118.1 21.08 14				
DAYS 6 TO 7	118.5 27.02 15	122.2 21.45 15	109.5 11.77 15	127.8 20.52 13				
DAYS 7 TO 8	111.1 20.65 15	116.8 21.88 15	98.8 16.70 15	119.5 59.50 14				
DAYS 8 TO 9	114.3 18.14 15	114.9 22.92 15	94.2 18.43 15	127.8 16.88 14				
DAYS 9 TO 10	111.0 17.53 15	113.1 22.08 15	101.3 17.93 15	127.8 12.35 14				
DAYS 10 TO 11	111.7 17.21 15	109.8 21.83 15	98.4 23.40 15	127.8 13.62 14				

SIGNIFICANTLY DIFFERENT FROM CONTROL: \* P<0.05; † P<0.01.

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TABLE 002

PROJECT NO. 30R0375/00062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION GRAMS/ANIMAL/DAY

DAYS	MEAN S.D. N	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/RC BW/DAY		TEST GROUP 2 200 MG/RC BW/DAY		TEST GROUP 3 800 MG/RC BW/DAY	
		MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N
DAYS 11 TO 12	105.0 17.21 15	98.0 20.01 15	93.5 21.12 15	42.60 17.61 14					
DAYS 12 TO 13	87.4 23.25 15	87.0 20.38 15	87.3 23.60 15	30.10 17.14 14					
DAYS 13 TO 14	86.0 24.40 15	86.0 23.45 15	78.9 28.78 15	12.00 18.18 14					
DAYS 14 TO 15	80.0 32.41 15	82.0 22.03 15	70.7 34.21 15	8.50 11.60 14					
DAYS 15 TO 16	85.5 42.00 15	80.4 20.80 15	73.0 34.26 15	7.00 10.00 14					
DAYS 16 TO 17	82.0 34.01 15	82.0 17.41 15	77.3 28.72 15	8.40 10.44 14					
DAYS 17 TO 18	88.1 30.22 15	86.3 25.37 14	80.5 28.06 15	9.20 12.04 14					
DAYS 18 TO 19	81.0 25.82 14	81.3 28.04 15	83.9 26.10 15	6.60 9.08 13					
DAYS 19 TO 20	87.0 20.46 15	87.0 23.00 15	76.9 33.12 15	7.10 13.64 13					
DAYS 20 TO 21	87.4 22.10 15	88.0 18.04 15	84.0 33.00 15	11.50 18.18 12					
DAYS 21 TO 22	87.4 28.58 15	82.1 28.05 15	79.1 33.00 15	17.10 27.08 8					

--- SIGNIFICANTLY DIFFERENT FROM CONTROL: \* = P<0.05; \*\* = P<0.01.

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TABLE

003

PROJECT NO. 3880375/88062: PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION -- GRAMS/ANIMAL/DAY

DAYS	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/MG BW/DAY	TEST GROUP 2 100 MG/MG BW/DAY	TEST GROUP 3 200 MG/MG BW/DAY	TEST GROUP 4 400 MG/MG BW/DAY						
						MEAN	S.D.	N	MEAN	S.D.	N
DAYS 22 TO 23	94.4 22.82 15	95.4 25.25 15	89.5 31.34 15	24.60 44.94 7							
DAYS 23 TO 24	100.0 17.85 14	100.3 22.36 15	84.2 33.04 15	16.80 34.84 7							
DAYS 24 TO 25	104.2 12.36 15	109.9 18.00 15	88.8 32.84 15	30.60 66.34 5							
DAYS 25 TO 26	87.8 22.88 15	111.4 17.03 15	114.9 22.37 14	51.60 87.99 3							
DAYS 26 TO 27	88.8 22.25 15	112.8 17.88 15	124.70 17.83 14	148.40 0.00 1							
DAYS 27 TO 28	110.0 18.03 15	122.1 17.50 15	138.80 18.38 14	167.20 0.00 1							
DAYS 28 TO 29	112.2 18.11 15	118.0 24.28 15	134.14 18.63 14	164.8 0.00 1							
DAYS 0 TO 7	MEAN OF MEANS 114.8 4.83 7	122.80 4.33 7	113.8 7.43 7	122.1 5.53 7							
DAYS 7 TO 20	MEAN OF MEANS 88.7 8.23 21	101.6 10.97 21	91.8 17.12 21	37.50 43.41 21							
DAYS 0 TO 29	MEAN OF MEANS 103.1 10.81 29	107.3 13.14 29	98.7 18.82 29	62.30 55.54 29							

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 004

PROJECT NO. A08033A/B00RS, PRENATAL TOXICITY STUDY IN RABBITS  
 HRAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL BODY WEIGHTS DURING GESTATION - GRAMS

DAY	MEAN S.D. N	TEST GROUP 0			TEST GROUP 1			TEST GROUP 7			TEST GROUP 3		
		CONTROL CMC	50 MG/KG BW/DAY	200 MG/KG BW/DAY	50 MG/KG BW/DAY	200 MG/KG BW/DAY	50 MG/KG BW/DAY	200 MG/KG BW/DAY	50 MG/KG BW/DAY	200 MG/KG BW/DAY			
DAY 0	2714 166.3 15	2730 189.8 15	2713 112.4 15	2715 131.7 14									
DAY 2	2756 172.8 15	2788 202.7 15	2774 128.6 15	2769 124.1 14									
DAY 4	2749 166.2 15	2778 211.8 15	2781 133.2 15	2770 130.6 14									
DAY 7	2752 178.4 15	2774 215.4 15	2748 131.8 15	2774 135.3 14									
DAY 8	2751 182.5 15	2781 207.5 15	2748 122.8 15	2786 145.3 14									
DAY 11	2748 188.8 15	2773 218.3 15	2740 127.6 15	2742 148.7 14									
DAY 14	2778 198.0 15	2784 211.0 15	2771 140.5 15	2879 153.8 14									
DAY 16	2811 188.8 15	2843 208.4 15	2802 148.5 15	2560b 167.7 14									
DAY 18	2804 198.1 15	2838 198.8 15	2815 160.3 15	2423b 188.0 13									
DAY 21	2803 188.2 15	2828 188.4 15	2789 166.0 15	2375b 175.4 12									
DAY 23	2817 188.4 15	2837 185.2 15	2789 185.4 15	2401d 187.4 7									

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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PROJECT NO. 3880375/88062: PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION -- GRAMS

TABLE : 006

DAYS	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/KG BW/DAY		TEST GROUP 2 200 MG/KG BW/DAY		TEST GROUP 3 800 MG/KG BW/DAY	
	MEAN S.D. N		MEAN S.D. N		MEAN S.D. N		MEAN S.D. N	
DAYS 0 TO 2	47.3 24.01 15		57.8 28.05 15		61.7 33.42 15		53.7 47.44 14	
DAYS 2 TO 4	-6.9 21.08 15		-9.3 26.56 15		-13.2 18.51 15		1.2 21.42 14	
DAYS 4 TO 7	2.5 27.88 18		-4.8 28.08 15		-13.0 18.41 15		4.5 26.07 14	
DAYS 7 TO 9	-1.0 23.24 18		7.2 20.60 15		0.6 26.70 18		11.6 32.05 14	
DAYS 9 TO 11	-2.1 18.15 18		-7.8 18.38 18		-9.2 26.01 18		-43.78 39.35 14	
DAYS 11 TO 14	28.1 24.37 18		28.8 28.32 18		30.8 38.85 18		-67.58 48.62 14	
DAYS 14 TO 16	33.1 33.38 18		48.1 38.83 18		32.8 43.21 18		-110.38 50.26 14	
DAYS 16 TO 18	-6.8 26.82 18		-4.8 28.75 15		12.4 36.85 18		-143.18 54.61 13	
DAYS 18 TO 21	-8.8 22.88 18		-8.8 18.88 15		-25.8 23.82 18		-88.88 68.48 12	
DAYS 21 TO 23	13.8 26.38 18		8.8 24.01 18		18.4 35.83 18		-23.8 93.15 7	
DAYS 23 TO 26	43.8 28.33 18		84.7 22.01 14		56.8 36.48 15		-39.18 100.51 6	

SIGNIFICANTLY DIFFERENT FROM CONTROL, \* P<0.05, \*\* P<0.01

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TABLE : 005

PROJECT NO. 3880375/80062: PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

MEAN MATERNAL BODY WEIGHTS DURING GESTATION -- GRAMS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
DAY 28	MEAN 2001	2027	2086	2372 <sup>b</sup>
	S.D. 168.1	200.6	204.1	267.8
	N 15	15	15	6
DAY 40	MEAN 2010	2001	2004	2609
	S.D. 164.3	191.2	130.1	0.0
	N 15	15	14	1
DAY 48	MEAN 2034	2007	2026	2777
	S.D. 180.2	191.1	191.5	216
	N 15	14	14	1

DIFFERENCES FROM CONTROL: a = P<0.05; b = P<0.01.

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PROJECT NO. J6R0375/88062; PRENATAL TOXICITY STUDY IN RABBITS

TABLE 1 007

MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION - GRAMS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
DAYS 26 TO 28	MEAN S.D. N	50.1 30.05 18	69.2 38.37 15	94.9 <sup>a</sup> 37.68 14
DAYS 20 TO 26	MEAN S.D. N	31.6 31.01 18	31.3 25.12 15	31.3 35.15 14

SIGNIFICANTLY DIFFERENT FROM CONTROL: a - P<0.05; b - P<0.01.

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TABLE 008

PROJECT NO. 3080375/8067; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)

MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION - GRAMS

DAYS 0 TO 7	MEAN S.D. N	TEST GROUP 1 50 MG/KG BW/DAY			TEST GROUP 2 200 MG/KG BW/DAY			TEST GROUP 3 800 MG/KG BW/DAY		
		MEAN	S.D.	N	MEAN	S.D.	N	MEAN	S.D.	N
DAYS 0 TO 7	37.0 51.03 15	43.7 39.48 15	36.8 35.92 15	36.7 45.31 14	187.6 92.47 15	237.4 117.44 14	36.0 0.00 1	236.0 92.11 15	307.6 129.96 14	89.7 0.00 1
DAYS 7 TO 28	167.1 67.44 15	187.6 92.47 15	237.4 117.44 14	36.0 0.00 1	236.0 92.11 15	307.6 129.96 14	89.7 0.00 1			
DAYS 0 TO 28	236.0 92.11 15	236.0 92.11 15	307.6 129.96 14	307.6 129.96 14						

--- SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05; b = P<0.01.

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PROJECT NO. 38R0J75/88002: PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
MEAN GRAVID UTERINE WEIGHTS AND NET MATERNAL BODY WEIGHT CHANGE - GRAMS

TABLE : 009

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
GRAVID UTERUS				
MEAN	352.8	370.8	374.1	270.5
S.D.	82.74	84.81	117.44	0.00
N	18	15	14	1
CARCASS				
MEAN	2587.8	2621.6	2651.4	2491.9
S.D.	188.88	172.31	90.17	0.00
N	18	15	14	1
NET WEIGHT CHANGE FROM DAY 7				
MEAN	-154.1	-152.0	-106.4	-161.2
S.D.	88.88	68.00	93.08	0.00
N	15	18	14	1

SIGNIFICANTLY DIFFERENT FROM CONTROL; a = P<0.05; b = P<0.01.

CARCASS WEIGHT = TERMINAL BODY WEIGHT MINUS UTERINE WEIGHT  
NET WEIGHT CHANGE FROM DAY 7 = CARCASS WEIGHT MINUS DAY 7 BODY WEIGHT

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TABLE 010

PROJECT NO. 3800375/0062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING GESTATION

	GROUP	DAY OF GESTATION																																	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	TOTAL			
# OF FEMALES EXAMINED	0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
NORMAL NO REMARKABLE CLINICAL OBSERVATIONS	0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
	1	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
	2	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
DEAD FOUND DEAD	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	0	0	0	0	0	0	0		
	1	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	0	0	0	0	0	0		
	2	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	0	0	0	0	0	0		
SACRIFICED AFTER ABORTION	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	0	0	0	0	0	0	0		
	1	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	0	0	0	0	0	0	0	
	2	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	0	0	0	0	0	0	0	
DIED AFTER ABORTION	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	0	0	0	0	0	0	0	0	
	1	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	0	0	0	0	0	0	0	
	2	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	0	0	0	0	0	0	0	0
BODY POSITION ABDOMINAL POSITION	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	0	0	0	0	0	0	0	0	
	1	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	0	0	0	0	0	0	0	0
	2	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	0	0	0	0	0	0	0	0
ACTIVITY APATHY	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	0	0	0	0	0	0	0	0	0
	1	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	0	0	0	0	0	0	0	0
	2	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	0	0	0	0	0	0	0	0

PROJECT NO. 380375/88067; PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING GESTATION

TABLE 1

011

GROUP	DAY OF GESTATION																											TOTAL									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		27	28	29						
# OF FEMALES EXAMINED	0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18					
EYES	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	0	0	0	0	0	0	0				
CONJUNCTIVITIS	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	0	0	0	0	0	0	0				
MISCELLANEOUS	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	0	0	0	0	0	0	0	0			
ABORTION	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	0	0	0	0	0	0	0	0			
VAGINAL HEMORRHAGE	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	0	0	0	0	0	0	0	0	0		
SKIN/FUR	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	0	0	0	0	0	0	0	0	0	0	
FUR SMEARED WITH URINE	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	0	0	0	0	0	0	0	0	0	0	
STOOL/URINE	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	0	0	0	0	0	0	0	0	0	0	
REDUCED DEFECTION	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	0	0	0	0	0	0	0	0	0	0	0
REDDISH-BROWN DISCOLORATION OF URINE	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	0	0	0	0	0	0	0	0	0	0	0

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PROJECT NO. JB80375/88062. PREMATURAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING GESTATION

TABLE 012

GROUP	DAY OF GESTATION										DAY OF GESTATION										TOTAL									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
2	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
3	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
NO DEPECATION	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	0	0	0	0
1	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	0	0	0	0
2	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	0	0	0	0
3	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	0	0	0	0

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BASF TOXICOLOGY - DATATOR AC.2  
PROJECT NUMBER 380375/8002

REG. NO. 83 758

TABLE 01J

HEMATOLOGICAL EXAMINATIONS

PRINT DATE 6 NOV-89

Nominal days in study 28 P.I.

GROUP	WBC GIGA/L	RBC TERA/L	HGB MMOL/L	HCT L/L	MCV FL	MCH FMOL	MCHC MMOL/L	PLT GIGA/L
0 MG/KG	M 0.52 SD 1.24 N 15	5.33 0.31 15	7.68 0.41 15	0.396 0.027 15	74.23 1.40 15	1.44 0.04 15	19.40 0.34 15	460 65 15
50 MG/KG	M 0.26 SD 0.98 N 15	5.30 0.30 15	7.75 0.39 15	0.400 0.019 15	75.39 2.58 15	1.46 0.06 15	19.38 0.38 15	321** 100 15
200 MG/KG	M 0.48 SD 1.73 N 14	5.22 0.33 14	7.55 0.36 14	0.393 0.020 14	75.20 2.40 14	1.45 0.05 14	19.24 0.27 14	324** 82 14
800 MG/KG	M 7.57 SD 0.00 N 1	4.72 0.00 1	7.48 0.00 1	0.380 0.000 1	80.30 0.00 1	1.58 0.00 1	19.71 0.00 1	452 0 1

Statistics: Anova y Dunnett's tests (two-tailed); \* P<0.05 \*\* P<0.01 (Statistical units = Animals)

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TABLE 014

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BASF TOXICOLOGY PROJECT NUMBER 380375/88062 Rev. No. 03 258

GROUP MEANS DIFFERENTIAL BLOOD COUNT

Number days in study 28 P.A.

F E M A L E S

GROUP	MBC GIG/L	EOS %	BAZO %	BAND %	POLY %	LMP %	MONO %
GROUP 0 0 mg/kg	M 6.92 SD 1.26 N 15	0.67 0.72 15	2.60 2.20 15	0.13 0.35 15	40.60 11.97 15	52.53 10.69 15	3.47 1.60 15
GROUP 1 50 mg/kg	M 6.26 SD 0.98 N 15	0.93 0.88 15	3.27 1.44 15	0.13 0.35 15	41.47 11.60 15	51.40 12.16 15	2.80 1.47 15
GROUP 2 200 mg/kg	M 6.48 SD 1.23 N 14	0.60 0.76 14	2.43 1.65 14	0.00 0.00 14	38.43 12.77 14	54.64 12.59 14	4.00 3.01 14
GROUP 3 800 mg/kg	M 7.87 SD 0.00 N 1	1.00 0.00 1	0.00 0.00 1	0.00 0.00 1	42.00 0.00 1	52.00 0.00 1	5.00 0.00 1

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TABLE U15

6 NOV 69

OSF TOXICOLOGY PROJECT NUMBER 30R0375/00062 Reg. No. 83 258

DIFFERENTIAL BLOOD COUNT

GROUP MEANS Nominal days in study 29 P.L.

F E M A L E S

GROUP	MBC GIGA/L	EOS GIGA/L	BAZO GIGA/L	BAND GIGA/L	POLY GIGA/L	LYMP GIGA/L	MONO GIGA/L
GROUP 0 0 mg/kg	M 0.52	0.04	0.16	0.01	2.72	3.35	0.23
	SD 1.24	0.05	0.13	0.03	1.38	0.67	0.12
	N 15	15	15	15	15	15	15
GROUP 1 50 mg/kg	M 0.76	0.06	0.20	0.01	2.62	3.18	0.17
	SD 0.89	0.06	0.09	0.02	0.99	0.77	0.09
	N 15	15	15	15	15	15	15
GROUP 2 200 mg/kg	M 0.48	0.03	0.15	0.00	2.48	3.59	0.23
	SD 1.73	0.05	0.10	0.00	1.12	1.51	0.17
	N 14	14	14	14	14	14	14
GROUP 3 800 mg/kg	M 7.57	0.08	0.00	0.00	3.18	3.94	0.38
	SD 0.80	0.00	0.00	0.00	0.00	0.00	0.00
	N 1	1	1	1	1	1	1

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TABLE 0176

BASF TOXICOLOGY - DATATON MC.2  
PROJECT NUMBER 380375/0002  
REG. NO. 83 258

PRINT DATE 6 NOV 89

GROUP MEANS RETICULOCYTES

Nominal days in study 28 P.I.

F E M A L E S RETI  
0/00

GROUP 0

0 MG/KG M 16

SD 5

N 15

GROUP 1

50 MG/KG M 16

SD 5

N 15

GROUP 2

200 MG/KG M 17

SD 6

N 14

GROUP 3

800 MG/KG M 07\*\*

SD 0

N 1

Statistical: Anova - Dunnett's tests (two-sided); \* P<0.05 \*\* P<0.01

(Statistical unit = Animal)

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Tab. 017

NASD Department of Toxicology

REG. NO. 03 250. PRENATAL TOX. STUDY.  
ADMINISTRATION BY GAVAGE IN RABBITS

3880315/88UB/1  
Nov/83/1989 MOPE  
ALONAL ANALISE  
p. 001

	Sacrifice Group		F1	F	1	2	3
	Q25	Q50					
Body weight	M	2958.4	2092.6	101.036	3025.643	141.354	2717.
	SD	180.885	15.136	14.458**	14.835	14.835	144.31
Liver	M	83.540	87.805	0.214	0.236*	0.04	0.76
	SD	7.414	15.136	0.033	0.04	0.04	1.1
Adrenal glands	M	0.202	0.214	0.033	0.04	0.04	1.1
	SD	0.030	0.033	0.04	0.04	0.04	1.1

Dunnnett test  
\* P < 0.05 \*\* P < 0.01  
the sided (statistical unit = animal)

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Tab. 018

NASD Department of Toxicology

REG. NO. 03 250 - PRENATAL TOX. STUDY.  
 ADMINISTRATION BY GAVAGE IN RABBITS  
 RELATIVE WEIGHTS - MEAN VALUES

JHR0325/88062  
 NOV/03/1988 MOPE  
 FEDERAL REGISTER  
 page 002

Body weight	Sacrifice group		F1	P	100	1	100	2	100	3
	M	SD								
Liver	M	SD	15	0.01	100	15	1.038	14	2.686**	5.321
	M	SD	15	0.16	100	15	0.172	14	0.433	
Adrenal glands	M	SD	15	0.007	100	15	0.007	14	0.008	0.01
	M	SD	15	0.001	100	15	0.001	14	0.001	

Dunnst test  
 \* P < 0.05 vs P < 0.01  
 two sided (statistical unit = animal)

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11-DEC-88

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PROJECT NO. 3880375/88882: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF MATERNAL NECROPSY OBSERVATIONS

TABLE : 019

DAMS EXAMINED	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/KG BW/DAY		TEST GROUP 2 200 MG/KG BW/DAY		TEST GROUP 3 800 MG/KG BW/DAY	
	16	15	15	15	14	15	15	15
NOTHING ABNORMAL DETECTED	M	1	100.0	100.0	93.3	0	0	0
POST MORTEM AUTOLYSIS	M	0	0.0	0.0	0.0	0	0	0
ANEMIA	M	0	0.0	0.0	0.0	0	0	0
HEART; DILATION	M	0	0.0	0.0	0.0	0	0	0
HEART; DISCOLORATION	M	0	0.0	0.0	0.0	0	0	0
LUNGS; OEDEMA	M	0	0.0	0.0	0.0	0	0	0
LIVER; NECROSIS	M	0	0.0	0.0	0.0	0	0	0
LIVER; FOCUS	M	0	0.0	0.0	0.0	0	0	0
LIVER; PROMINENT ACINAR PATTERN	M	0	0.0	0.0	0.0	0	0	0
GLANDULAR STOMACH; ULCER	M	0	0.0	0.0	0.0	0	0	0
GLANDULAR STOMACH; FOCUS	M	0	0.0	0.0	0.0	0	0	0
KIDNEYS; DISCOLORATION	M	0	0.0	0.0	0.0	0	0	0
CECUM; DYSENTERIA	M	0	0.0	0.0	0.0	0	0	0

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11-DEC-82

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TABLE : 020

PROJECT NO. 3080370/00067, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVALE)

SUMMARY OF MATERNAL NECROPSY OBSERVATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/MG BW/DAY	TEST GROUP 2 200 MG/MG BW/DAY	TEST GROUP 3 800 MG/MG BW/DAY
	15	15	15	15
DAMS EXAMINED	M	15	15	15
PARTICULAR FIND. ON IMPLANTS IN DAMS SACR. MORIB./DIED INTERC.	M	0	0	1
		0.0	0.0	6.7
PARTICULAR FINDINGS ON IMPLANTS IN DAMS WHICH ABORTED	M	0	1	12
		0.0	6.7	80.0

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11-DEC-88

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PROJECT NO. 3880375/88082; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF REPRODUCTION DATA

TABLE 1 021

	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/KG BW/DAY		TEST GROUP 2 200 MG/KG BW/DAY		TEST GROUP 3 800 MG/KG BW/DAY	
	N	%	N	%	N	%	N	%
Females Mated	15		15		15		15	
Pregnant	15		15		15		14	
	100		100		100		93	
Aborted	0		0		1		12	
Premature - Irthas	0		0		0		0	
Does with Viable Fetuses	15		15		14		1	
Does with all Resorptions	0		0		0		0	
Foetal Mortality	0		0		1		13b	
	0.0		0.0		6.7		87	
Pregnant at C-section	15		15		14		1b	
	100		100		93		6.7	
Corpora lutea	7.8		6.1		6.4		7.0	
MEAN	1.41		1.22		1.28		0.00	
S.D.	112		121		118		7	
TOTAL	6.7		6.7		7.1		7.0	
Implantation Sites	1.44		1.78		2.02		0.00	
MEANS	181		181		88		7	
S.D.	6.8		17.1		18.4		0.0	
TOTAL	14.72		14.66		21.77		0.00	
Preimplantation Loss	4.9		6.1		8.9		42.8a	
MEANS	7.42		10.73		19.12		0.00	
S.D.								

SIGNIFICANTLY DIFFERENT FROM CONTROL; a - P<0.05, b - P<0.01.

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TABLE 1 017

PROJECT NO. 3880370/80067, PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF REPRODUCTION DATA

	N	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/KG BW/DAY		TEST GROUP 2 200 MG/KG BW/DAY		TEST GROUP 3 800 MG/KG BW/DAY	
		15	15	15	14	1			
Pregnant at C-section									
Resorptions: Total		MEAN 0.3	0.3	0.5	0.4	3.0b			
		S.D. 0.40	0.40	0.63	0.63	0.00			
		TOTAL 5	5	7	5	3			
		MEANS 4.9	4.9	6.1	6.9	47.9b			
		S.D. 7.42	7.42	10.73	10.12	0.00			
Early		MEAN 0.1	0.1	0.3	0.2	3.0b			
		S.D. 0.35	0.35	0.40	0.50	0.00			
		TOTAL 2	2	4	3	3			
		MEANS 2.1	2.1	3.0	7.1	42.9b			
		S.D. 5.73	5.73	6.65	10.30	0.00			
Late		MEAN 0.2	0.2	0.2	0.1	0.0			
		S.D. 0.41	0.41	0.56	0.36	0.00			
		TOTAL 3	3	3	2	0			
		MEANS 2.0	2.0	2.3	1.0	0.0			
		S.D. 5.00	5.00	6.71	4.54	0.00			
Dead Fetuses									
	N	0	0	0	0	0			

.....  
SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05; b = P<0.01.

11-DEC-68  
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PROJECT NO. J880375/88062: PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF REPRODUCTION DATA

TABLE 023

Data with Viable Fetuses	N	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 50 MG/KG BW/DAY		TEST GROUP 2 200 MG/KG BW/DAY		TEST GROUP 3 800 MG/KG BW/DAY	
		15	15	15	14	14	14	14	
Live Fetuses	MEAN	6.4	6.3	6.7	6.7	4.0			
	S.D.	1.40	1.67	2.46	2.46	0.00			
	TOTAL	96	94	94	94	4			
Females	MEAN	95.1	93.9	91.1	91.1	57.1*			
	S.D.	7.42	10.73	18.12	18.12	0.00			
	TOTAL	96	94	94	94	3			
Males	MEAN	3.0	3.0	3.4	3.4	47.9			
	S.D.	1.41	1.20	2.21	2.21	0.00			
	TOTAL	96	48	48	48	3			
PER CENT LIVE FEMALES	MEAN	97.6	48.2	44.4	44.4	47.9			
	S.D.	18.77	28.78	28.16	28.16	0.00			
	TOTAL	96	48	48	48	3			
PER CENT LIVE MALES	MEAN	2.8	3.3	3.3	3.3	1.0			
	S.D.	1.38	1.62	1.68	1.68	0.00			
	TOTAL	38	48	48	48	1			
PER CENT LIVE FEMALES	MEAN	37.9	47.6	48.7	48.7	14.3			
	S.D.	16.02	21.38	20.62	20.62	0.00			
	TOTAL	96	48	48	48	1			
PER CENT LIVE MALES	MEAN	60.4	47.9	51.1	51.1	75.0			
	S.D.	39.6	52.1	48.9	48.9	25.0			
	TOTAL	96	48	48	48	1			

\* SIGNIFICANTLY DIFFERENT FROM CONTROL, \* P < 0.05; \*\* P < 0.01.

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11-DEC-80

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PROJECT NO. 300370/80062, PRENATAL TOXICITY STUDY IN HABBITS

TABLE 1

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ORAL ADMINISTRATION (CAVAGE)  
MEAN PLACENTAL AND FETAL BODY WEIGHTS

TEST GROUP 0 80 MG/KG BW/DAY TEST GROUP 1 200 MG/KG BW/DAY TEST GROUP 2 400 MG/KG BW/DAY TEST GROUP 3 800 MG/KG BW/DAY

PLACENTAL WEIGHTS UNITS: GRAMS

	TEST GROUP 0 CONTROL (M)	TEST GROUP 1 80 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
of all Viable Fetuses	MEAN S.D. N	4.7 0.84 15	4.8 0.46 15	4.9 1.23 14
of Male Fetuses	MEAN S.D. N	4.6 0.70 15	4.6 0.61 15	5.0 1.23 14
of Female Fetuses	MEAN S.D. N	4.7 0.85 15	4.8 0.31 14	4.4 0.82 12

FETAL WEIGHTS UNITS: GRAMS

	TEST GROUP 0 CONTROL (M)	TEST GROUP 1 80 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
of all Viable Fetuses	MEAN S.D. N	40.9 2.88 15	43.7 2.21 15	42.6 5.52 14
of Male Fetuses	MEAN S.D. N	41.1 3.94 15	43.0 3.04 15	42.7 5.59 14
of Female Fetuses	MEAN S.D. N	40.7 2.30 15	44.0 1.90 14	40.6 3.08 12

SIGNIFICANTLY DIFFERENT FROM CONTROL, a = P<0.05, b = P<0.01.

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TABLE 1 025

PROJECT NO. JBR0375/00062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED FETAL EXTERNAL OBSERVATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Fetuses Evaluated	86	84	84	4
Live	86	84	84	4
Dead	0	0	0	0
<b>TOTAL MALFORMATIONS</b>				
Fetal Incidence	1.0	0.0	0.0	0.0
Litter Incidence	6.7	0.0	0.0	0.0
Affected Fetuses/Litter	1.7	0.0	0.0	0.0
MEANS	0.46	0.00	0.00	0.00
S.D.				
<b>TOTAL VARIATIONS</b>				
Fetal Incidence	1.0	1.1	0.0	0.0
Litter Incidence	6.7	6.7	0.0	0.0
Affected Fetuses/Litter	0.8	0.7	0.0	0.0
MEANS	3.23	2.88	0.00	0.00
S.D.				

--- SIGNIFICANTLY DIFFERENT FROM CONTROL: a • P<0.05; b • P<0.01.

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PROJECT NO. JBR0376/88062; PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)

TABLE 1

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SUMMARY OF PATAL EXTERNAL MALFORMATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 500 MG/KG BW/DAY
Litters Evaluated	15	18	14	1
Pupae Evaluated	86	84	84	4
Live	88	84	84	4
Dead	0	0	0	0
OLIGODACTYLY				
Patal Incidence	1	0	0	0
Litter Incidence	1.0	0.0	0.0	0.0
	1	0	0	0
	6.7	0.0	0.0	0.0
TOTAL PATAL EXTERNAL MALFORMATIONS				
Patal Incidence	1	0	0	0
Litter Incidence	1.0	0.0	0.0	0.0
	1	0	0	0
	6.7	0.0	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL, a = P<0.05, b = P<0.01.

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11-DEC-88

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PROJECT NO. 3880375/00067: PRENATAL TOXICITY STUDY IN RABBITS

TABLE

027

ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF FETAL EXTERNAL VARIATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Partners Evaluated	96	94	94	4
Live	96	94	94	4
Dead	0	0	0	0
PSEUDOANHYLOSIS (PORELIING)				
Fetal Incidence	1	1	0	0
Litter Incidence	1.0	1.1	0.0	0.0
	6.7	6.7	0.0	0.0
TOTAL FETAL EXTERNAL VARIATIONS				
Fetal Incidence	1	1	0	0
Litter Incidence	1.0	1.1	0.0	0.0
	6.7	6.7	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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88062

PROJECT NO. 380375/88062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL EXTERNAL UNCLASSIFIED OBSERVATIONS

TABLE : 028

	1877 GROUP H CONTROL CML	1877 GROUP I 50 MG/KG BW/DAY	1877 GROUP 4 200 MG/KG BW/DAY	1877 GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Live	06	04	04	4
Dead	06	04	04	4
<b>TOTAL FETAL EXTERNAL UNCLASSIFIED OBSERVATIONS</b>				
Fetal Incidence	0	0	0	0
Litter Incidence	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a - P<0.05, b - P<0.01.

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11-DEC-88

88082

PROJECT NO. 380375/88082: PRENATAL TOXICITY STUDY IN RABBITS  
 SUMMARY OF ALL CLASSIFIED FETAL SOFT TISSUE OBSERVATIONS

TABLE : 029

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	14	14	1
Fetuses Evaluated	96	94	94	4
Live	96	94	94	4
Dead	0	0	0	0
<b>TOTAL MALFORMATIONS</b>				
Total Incidence	1	3	1	0
Litter Incidence	1.0	3.2	1.1	0.0
Affected Fetuses/Litter	1	3	1	0
MEANS	0.7	20.0	7.1	0.0
S.D.	1.1	3.5	0.9	0.0
	4.30	7.43	3.34	0.00
<b>TOTAL VARIATIONS</b>				
Total Incidence	33	24	26	1
	34.4	26.5	27.7	25.0
Litter Incidence	14	11	11	1
	93.5	73.3	78.6	100.0
Affected Fetuses/Litter	36.0	26.3	31.0	25.0
MEANS	26.00	21.01	27.32	0.00
S.D.				

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = p<0.05; b = p<0.01.

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11-DEC-88 08002 PROJECT NO. 380375/88062: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SOFT TISSUE MALFORMATIONS

TABLE 030

	SUMMARY OF FETAL SOFT TISSUE MALFORMATIONS			
	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	18	18	14	1
Fetuses Evaluated	66	94	94	4
Live	66	94	94	4
Dead	0	0	0	0
<b>TRUNCUS ARTERIOSUS COMMUNIS</b>				
Fetal Incidence	0.0	1.1	0.0	0.0
Litter Incidence	0.0	6.7	0.0	0.0
<b>HERNIA DIAPHRAGMATICA</b>				
Fetal Incidence	0.0	1.1	0.0	0.0
Litter Incidence	0.0	6.7	0.0	0.0
<b>AGENESIA OF SPLEEN</b>				
Fetal Incidence	0.0	1.1	0.0	0.0
Litter Incidence	0.0	6.7	0.0	0.0
<b>AGENESIA OF GALLBLADDER</b>				
Fetal Incidence	1.0	1.1	1.1	0.0
Litter Incidence	6.7	6.7	7.1	0.0
<b>TOTAL FETAL SOFT TISSUE MALFORMATIONS</b>				
Fetal Incidence	1.0	3.3	1.1	0.0
Litter Incidence	6.7	20.0	7.1	0.0

.....  
 SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P < 0.05; b = P < 0.01.

11-DEC-68

80082

TABLE 1 031

PROJECT NO. 3080375/80082, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF FETAL SOFT TISSUE VARIATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Fetuses Evaluated	88	84	84	4
Live	88	84	84	4
Dead	0	0	0	0
<b>SEPARATED ORIGIN OF CAROTIDS</b>				
Fetal Incidence	21	14	25	0
Litter Incidence	21.0	14.8	28.6	0.0
	73.3	53.3	78.6	0.0
<b>HEART: TRACES OF INTERVENTRICULAR FORAMEN/SEPTUM MEMBRANECEUM</b>				
Fetal Incidence	13	8	20	1
Litter Incidence	13.8	6.4	21.1	25.0
	48.7	28.7	14.3	100.0
<b>HYPOPLASIA OF GALLBLADDER</b>				
Fetal Incidence	0	3	0	0
Litter Incidence	0.0	3.2	0.0	0.0
	0.0	13.3	0.0	0.0
<b>DILATED RENAL PELVIS</b>				
Fetal Incidence	1	1	0	0
Litter Incidence	1.0	1.1	0.0	0.0
	6.7	6.7	0.0	0.0
<b>TOTAL FETAL SOFT TISSUE VARIATIONS</b>				
Fetal Incidence	33	24	26	1
Litter Incidence	34.4	28.6	27.7	25.0
	14	11	11	1
	83.3	73.3	78.6	100.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE : 032

PROJECT NO. 3880375/88002: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (HAWAGE)  
 SUMMARY OF FETAL SOFT TISSUE UNCLASSIFIED OBSERVATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/MG BW/DAY	TEST GROUP 2 200 MG/MG BW/DAY	TEST GROUP 3 800 MG/MG BW/DAY
LIVER: UNCLASIFIED	14	14	14	14
Fetuses (N)	14	14	14	14
Live (n)	14	14	14	14
Dead (n)	0	0	0	0
LIVER: FOCAL NECROSIS				
Total Incidence	0.0	1.1	1.1	0.0
Litter Incidence	0.0	0.7	7.1	0.0
BLOOD COAGULUM AROUND BLADDER				
Total Incidence	0.0	1.1	4.3	0.0
Litter Incidence	0.0	0.7	28.6	0.0
TOTAL FETAL SOFT TISSUE UNCLASSIFIED OBSERVATIONS				
Total Incidence	0.0	2.2	5.3	0.0
Litter Incidence	0.0	13.3	35.7	0.0

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 SIGNIFICANTLY DIFFERENT FROM CONTROL: \* = P<0.05; \*\* = P<0.01.

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TABLE : 033

PROJECT NO. 3880375/88062: PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF ALL CLASSIFIED FETAL SKELETAL OBSERVATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Fetuses Evaluated	86	84	84	4
Live	86	84	84	4
Dead	0	0	0	0

TOTAL MALFORMATIONS

Fetal Incidence	1.0	1.1	1.1	25.0
Litter Incidence	1	1	1	1
Affected Fetuses/Litter	MEANS 1.0	MEANS 0.8	MEANS 0.7	MEANS 25.00
	S.D. 3.68	S.D. 3.23	S.D. 3.67	S.D. 0.00

TOTAL VARIATIONS

Fetal Incidence	6.3	7.4	5.3	0.0
Litter Incidence	5	6	5	0
Affected Fetuses/Litter	MEANS 7.3	MEANS 7.3	MEANS 7.3	MEANS 0.0
	S.D. 12.34	S.D. 10.67	S.D. 13.78	S.D. 0.00

TOTAL RETARDATIONS

Fetal Incidence	56	54	56	3
Litter Incidence	58.3	57.4	59.6	75.0
Affected Fetuses/Litter	MEANS 57.8	MEANS 57.3	MEANS 63.2	MEANS 75.0
	S.D. 27.16	S.D. 27.88	S.D. 31.08	S.D. 0.00

SIGNIFICANTLY DIFFERENT FROM CONTROL; a = P<0.05; b = P<0.01

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88062

TABLE 1 034

PROJECT NO. 3880375/88062; PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF FETAL SKELETAL MALFORMATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 700 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	18	18	14	1
Fetuses Evaluated	98	94	94	4
Live	94	94	94	4
Dead	0	0	0	0
<b>THORACIC VERTEBRA ABSENT</b>				
Fetal Incidence	0	0	1	0
Litter Incidence	0.0	0.0	7.1	0.0
<b>LUMBAR VERTEBRA ABSENT</b>				
Fetal Incidence	1	0	0	0
Litter Incidence	5.7	0.0	0.0	0.0
<b>STERNAE WITH VARIOUS MALFORMATIONS</b>				
Fetal Incidence	0	1	0	1
Litter Incidence	0.0	5.7	0.0	25.0
<b>MISSING</b>				
Fetal Incidence	0	0	1	0
Litter Incidence	0.0	0.0	7.1	0.0
<b>TOTAL FETAL SKELETAL MALFORMATIONS</b>				
Fetal Incidence	1	1	1	1
Litter Incidence	1.0	1.1	1.1	25.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: \* P < 0.05, \*\* P < 0.01

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TABLE 035

PROJECT NO. 38R0375/88062: PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF FETAL SKELETAL VARIATIONS

	TEST GROUP 0 CONTROL CAC	TEST GROUP 1 50 MG/RC BW/DAY	TEST GROUP 2 200 MS/RC BW/DAY	TEST GROUP 3 803 MG/RC BW/DAY
Litters Evaluated	15	15	14	1
Pupuses Evaluated	88	84	84	4
Live	88	84	84	4
Dead	0	0	0	0
<b>SPLITTING OF SKULL BONE(S)</b>				
Fetal Incidence	0	4	0	0
Litter Incidence	0.0	4.3	0.0	0.0
	0.0	20.0	0.0	0.0
<b>SPACTAL BONE BETWEEN PARIETAL BONES</b>				
Fetal Incidence	0	0	1	0
Litter Incidence	0.0	0.0	7.1	0.0
	0.0	0.0	7.1	0.0
<b>ACCESSORY THORACIC VERTEBRA</b>				
Fetal Incidence	0	0	1	0
Litter Incidence	0.0	0.0	7.1	0.0
	0.0	0.0	7.1	0.0
<b>CLAVICULA DEFORMED</b>				
Fetal Incidence	1	0	0	0
Litter Incidence	1.0	0.0	0.0	0.0
	0.7	0.0	0.0	0.0
<b>ACCESSORY STERNBRA</b>				
Fetal Incidence	1	2	0	0
Litter Incidence	1.0	13.3	0.0	0.0
	0.7	13.3	0.0	0.0
<b>STERNBRAE FUSED</b>				
Fetal Incidence	2	3	0	0
Litter Incidence	2.0	20.0	0.0	0.0
	1.3	20.0	0.0	0.0
<b>STERNBRAE(S) OF IRREGULAR SHAPE</b>				
Fetal Incidence	0	1	1	0
Litter Incidence	0.0	6.7	7.1	0.0
	0.0	6.7	7.1	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL; \* P<0.05; \*\* P<0.01.

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TABLE 036

PROJECT NO. J8R0375/88062, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF PATAL SKELETAL VARIATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	15	15	14	1
Petuses Evaluated	88	84	84	4
Live	88	84	84	4
Dead	0	0	0	0
ACCESSORY 13TH RIB(S)				
Patel Incidence	0	0	3	0
Litter Incidence	0.0	0.0	3.2	0.0
13TH RIB(S) ABSENT				
Patel Incidence	0	0	3	0
Litter Incidence	0.0	0.0	31.4	0.0
13TH RIB(S) ARSERT				
Patel Incidence	1	0	0	0
Litter Incidence	6.7	0.0	0.0	0.0
SUPPLEMENTARY CERVICAL RIB(S)				
Patel Incidence	1	0	0	0
Litter Incidence	6.7	0.0	0.0	0.0
TOTAL PATAL SKELETAL VARIATIONS				
Patel Incidence	6.3	7.4	6.2	0.0
Litter Incidence	33.3	40.0	38.7	0.0

----- SIGNIFICANTLY DIFFERENT FROM CONTROL. \* = P<0.05; \*\* = P<0.01.

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TABLE 1 037

PROJECT NO. 3880375/8002: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SKELETAL RETARDATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 50 MG/KG BW/DAY	TEST GROUP 2 200 MG/KG BW/DAY	TEST GROUP 3 800 MG/KG BW/DAY
Litters Evaluated	18	15	14	1
Fetuses Evaluated	96	84	84	4
Live	86	84	84	4
Dead	0	0	0	0
<b>SKULL INCOMPLETELY OSSIFIED</b>				
Fetal Incidence	3	0	4	1
Litter Incidence	3.1	0.0	4.3	25.0
	13.3	0.0	28.6	100.0
<b>INTERPARIETAL BONE REDUCED IN SIZE</b>				
Fetal Incidence	0	1	0	0
Litter Incidence	0.0	1.1	0.0	0.0
	0.0	6.7	0.0	0.0
<b>STERNUM(AE) NOT OSSIFIED</b>				
Fetal Incidence	37	37	33	2
Litter Incidence	38.6	38.4	35.1	50.0
	13	12	9	1
	66.7	80.0	64.3	100.0
<b>STERNUM(AE) INCOMPLETELY OSSIFIED OR REDUCED IN SIZE</b>				
Fetal Incidence	17	16	23	1
Litter Incidence	17.7	17.0	24.5	25.0
	11	11	12	1
	73.3	73.3	85.7	100.0
<b>TOTAL FETAL SKELETAL RETARDATIONS</b>				
Fetal Incidence	56	54	56	3
Litter Incidence	68.3	57.4	59.6	75.0
	14	15	14	1
	83.3	100.0	100.0	100.0

\*\*\* SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 038

PROJECT NO. J880375/88062; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED FETAL INTERNAL, SOFT TISSUE, AND SKELETAL OBSERVATIONS

TEST GROUP 0 TEST GROUP 1 TEST GROUP 2 TEST GROUP 3  
 CEMICAL CML 00 MG/80 BW/DAY 200 MG/80 BW/DAY 800 MG/80 BW/DAY

	M	N	M	N	M	N	M	N
Litters Evaluated	15	15	14	14	1	1	4	4
Fetuses Evaluated	96	94	94	94	4	4	94	94
Live	96	94	94	94	4	4	94	94
Dead	0	0	0	0	0	0	0	0

TOTAL MALFORMATIONS

	M	N	M	N	M	N	M	N
Fetal Incidence	3	3.1	4	4.3	2	2.1	25.0	25.0
Litter Incidence	3	20.0	3	20.0	2	14.3	100.0	100.0
Affected Fetuses/Litter	3.7	9.01	4.3	9.04	1.6	4.11	25.0 <sup>a</sup>	0.00
MEANS								
S.D.								

TOTAL VARIATIONS

	M	N	M	N	M	N	M	N
Fetal Incidence	37	38.6	30	31.6	30	31.8	25.0	25.0
Litter Incidence	15	100.0	17	80.0	17	88.7	100.0	100.0
Affected Fetuses/Litter	40.6	26.71	37.6	24.38	37.3	28.00	28.0	0.00
MEANS								
S.D.								

TOTAL REABRATIONS

	M	N	M	N	M	N	M	N
Fetal Incidence	84	88.3	84	81.4	88	88.6	18.0	18.0
Litter Incidence	14	93.3	15	100.0	14	100.0	100.0	100.0
Affected Fetuses/Litter	57.9	27.10	57.3	27.68	63.2	31.08	75.0	0.00
MEANS								
S.D.								

SIGNIFICANTLY DIFFERENT FROM CONTROL; a = P<0.05; b = P<0.01

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B. SUPPLEMENTAL STUDY (Doses: 0, 400 mg/kg)

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TABLE : 001

PROJECT NO. 4080375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (CAVAGE)  
 MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION -- GRAMS/ANIMAL/DAY

TEST GROUP 0 400 MG/HC BW/DAY  
 TEST GROUP 1

DAYS 0 TO 1	MEAN S.D. N	CONTROL CMC		TEST GROUP 0		TEST GROUP 1	
		MEAN	S.D.	MEAN	S.D.	MEAN	S.D.
DAYS 0 TO 1	124.7 17.07 18	124.7	17.07	124.7	17.07	124.7	17.07
DAYS 1 TO 2	124.4 18.06 18	124.4	18.06	124.4	18.06	127.6	22.71 18
DAYS 2 TO 3	124.0 18.02 18	124.0	18.02	124.0	18.02	117.0	18.03 18
DAYS 3 TO 4	119.4 20.18 18	119.4	20.18	119.4	20.18	110.7	23.10 18
DAYS 4 TO 5	110.1 17.48 18	110.1	17.48	110.1	17.48	114.4	18.48 18
DAYS 5 TO 6	112.2 21.18 18	112.2	21.18	112.2	21.18	105.0	24.98 18
DAYS 6 TO 7	109.2 18.84 18	109.2	18.84	109.2	18.84	105.7	27.28 18
DAYS 7 TO 8	101.4 20.81 18	101.4	20.81	101.4	20.81	52.28	18.98 18
DAYS 8 TO 9	89.0 23.84 18	89.0	23.84	89.0	23.84	48.88	21.02 18
DAYS 9 TO 10	92.4 22.41 18	92.4	22.41	92.4	22.41	87.88	20.78 18
DAYS 10 TO 11	MI 18 23.84 18	MI 18	23.84	MI 18	23.84	87.88	33.88 18

SIGNIFICANTLY DIFFERENT FROM CONTROL: a - P<0.05; b - P<0.01

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TABLE 1 002

PROJECT NO. 4080375/00077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION -- GRAMS/ANIMAL/DAY

TEST GROUP 0      TEST GROUP 1  
 CONTROL CMC      400 MG/KG BW/DAY

DAYS	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N	MEAN S.D. N
DAYS 11 TO 12	80.2 23.37 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.8 22.08 10	84.0 44.30 20	83.84 38.25 10
DAYS 12 TO 13	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	80.8 43.41 20	80.86 42.00 20
DAYS 13 TO 14	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 14 TO 15	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 15 TO 16	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 16 TO 17	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 17 TO 18	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 18 TO 19	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 19 TO 20	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 20 TO 21	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20
DAYS 21 TO 22	80.1 18.43 10	80.1 18.43 10	83.0 22.03 10	70.8 20.20 10	75.2 20.16 10	81.0 23.05 10	80.3 43.01 20	84.0 44.30 20	80.86 42.00 20

..... SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 1 803

PROJECT NO. 4080378/88077; PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
MEAN MATERNAL FOOD CONSUMPTION DURING GESTATION -- GRAMS/ANIMAL/DAY

TEST GROUP 0 400 MG/KU BW/DAY  
CONTROL CMC

DAYS	MEAN	S.D.	N	TEST GROUP 1	TEST GROUP 2
DAYS 22 TO 23	89.7	19.06	18	76.2	48.25
DAYS 23 TO 24	81.6	16.07	18	76.0	48.63
DAYS 24 TO 25	108.3	20.03	18	83.7	48.05
DAYS 25 TO 26	108.8	20.18	18	86.0	48.18
DAYS 26 TO 27	104.2	19.73	18	116.0	44.44
DAYS 27 TO 28	149.1	28.44	18	127.2	38.18
DAYS 28 TO 29	103.8	31.38	18	124.8	37.88
DAYS 0 TO 7	MEAN OF MEANS	S.D.	N	115.7	8.08
DAYS 7 TO 20	MEAN OF MEANS	S.D.	N	88.3	21.23
DAYS 0 TO 20	MEAN OF MEANS	S.D.	N	81.88	20.88

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 004

PROJECT NO. 4000375/80077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL BODY WEIGHTS DURING GESTATION -- GRAMS

TEST GROUP 0      TEST GROUP 1  
 CONTROL CMC      400 MG/MG CW/DAY

DAY	MEAN	S.D.	N	MEAN	S.D.	N	MEAN	S.D.	N
DAY 0	2884	129.7	10	2878	116.7	20	2884	129.7	10
DAY 2	2868	144.4	10	2660	130.5	20	2868	144.4	10
DAY 4	2890	142.3	10	2656	135.2	20	2890	142.3	10
DAY 7	2889	138.8	10	2654	141.1	20	2889	138.8	10
DAY 9	2898	148.8	10	2630	130.3	20	2898	148.8	10
DAY 11	2843	160.3	10	2628	143.7	20	2843	160.3	10
DAY 14	2882	167.2	10	2608	174.8	20	2882	167.2	10
DAY 16	2885	186.0	10	2597	212.6	20	2885	186.0	10
DAY 18	2889	158.3	10	2607	180.9	10	2889	158.3	10
DAY 21	2876	141.0	10	2597	186.0	10	2876	141.0	10
DAY 23	2885	135.9	10	2671	140.4	14	2885	135.9	10

--- SIGNIFICANTLY DIFFERENT FROM CONTROL; a - P<0.05; b - P<0.01.

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TABLE 1 005

PROJECT NO. 4080375/80077, PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
MEAN MATERNAL BODY WEIGHTS DURING GESTATION -- GRAMS

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/5% OR/DAY
DAY 10	MEAN 2719	2711
	S.D. 146.4	191.3
	N 10	10
DAY 20	MEAN 2708	2679
	S.D. 143.3	183.7
	N 10	10
DAY 30	MEAN 2615	2610
	S.D. 150.1	185.0
	N 10	10

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 1 006

PROJECT NO. 40R0375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION -- GRAMS

TEST GROUP 0 400 MG/KG BW/DAY  
 CONTROL CMC TEST GROUP 1

DAYS	MEAN	S.D.	N	MEAN	S.D.	N
DAYS 0 TO 2	87.8	28.03	18	80.5	46.63	20
DAYS 2 TO 4	7.8	26.86	18	-12.7	39.16	20
DAYS 4 TO 7	0.3	28.08	18	-1.3	32.29	20
DAYS 7 TO 9	-4.6	22.17	18	-15.7	37.71	20
DAYS 9 TO 11	-12.9	16.23	18	-11.1	19.04	20
DAYS 11 TO 14	19.8	20.32	18	-19.8	64.28	20
DAYS 14 TO 16	23.2	21.01	18	-16.1	64.14	20
DAYS 16 TO 18	4.6	33.81	18	-12.2	77.39	19
DAYS 18 TO 21	-14.8	17.24	18	-23.8	57.85	18
DAYS 21 TO 23	18.4	18.08	18	-7.8	84.89	14
DAYS 23 TO 25	44.7	28.48	18	17.7	88.89	13

..... SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 1 007

PROJECT NO. 4080375/0077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION -- GRAMS

TEST GROUP 0  
 TEST GROUP 1  
 CONTROL CMC 400 MG/KG BW/DAY

DAYS 20 TO 30	TEST GROUP 0		TEST GROUP 1	
	MEAN	S.D.	MEAN	S.D.
	19.4	10	20.17	10
	19.4	10	20.17	10

SIGNIFICANTLY DIFFERENT FROM CONTROL: a - P < 0.05; b - P < 0.01.

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TABLE 1 008

PROJECT NO. 4880375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 MEAN MATERNAL BODY WEIGHT CHANGE DURING GESTATION -- GRAMS

TEST GROUP 0 TEST GROUP 1  
 CONTROL CMC 400 MG/KG BW/DAY

DAYS 0 TO 7	MEAN	76.2	76.4
	S.D.	30.08	87.13
	N	10	20
DAYS 7 TO 20	MEAN	136.6	140.7
	S.D.	74.00	184.42
	N	10	10
DAYS 0 TO 20	MEAN	231.2	220.4
	S.D.	82.77	176.10
	N	10	10

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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TABLE 1 000

PROJECT NO. 4900376/000771. PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
MEAN GRAVID UTERINE WEIGHTS AND NET MATERNAL BODY WEIGHT CHANGE -- GRAMS

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/KG BW/DAY
GRAVID UTERUS		
MEAN	326.6	289.6
S.D.	114.08	167.43
N	10	10
CARCASS		
MEAN	2489.2	2550.0
S.D.	134.04	130.02
N	10	10
NET WEIGHT CHANGE FROM DAY 7		
MEAN	-171.6	-109.1
S.D.	76.08	85.06
N	10	10

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

CARCASS WEIGHT = TERMINAL BODY WEIGHT MINUS UTERINE WEIGHT  
NET WEIGHT CHANGE FROM DAY 7 = CARCASS WEIGHT MINUS DAY 7 BODY WEIGHT

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TABLE 1

PROJECT NO. 40R0375/80077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (CAGE)  
 SUMMARY OF MATERNAL CLINICAL OBSERVATIONS DURING GESTATION

	GROUP	DAY OF GESTATION																																				
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	TOTAL							
% OF FEMALES EXAMINED	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20					
	1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20					
NORMAL																																						
NO REMARKABLE CLINICAL OBSERVATIONS	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20					
	1	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
DEAD																																						
SACRIFICED AFTER ABORTION	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	0	0	0	0	0	0	0	0				
	1	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	0	0	0	0	0	0	0	0			
DIED AFTER ABORTION	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	0	0	0	0	0	0	0	0	0			
	1	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	0	0	0	0	0	0	0	0	0		
MISCELLANEOUS																																						
ABORTION	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	0	0	0	0	0	0	0	0	0	0		
	1	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	0	0	0	0	0	0	0	0	0	0	
BLOOD IN SEEDING	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	0	0	0	0	0	0	0	0	0	0	0	
	1	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	0	0	0	0	0	0	0	0	0	0	0
STOOL/URINE																																						
REDUCED DEFECATION	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	0	0	0	0	0	0	0	0	0	0	0	
	1	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	0	0	0	0	0	0	0	0	0	0	0
NO DEFECATION	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	0	0	0	0	0	0	0	0	0	0	0	0
	1	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	0	0	0	0	0	0	0	0	0	0	0
REDDISH-BROWN DISCOLORATION OF URINE	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	0	0	0	0	0	0	0	0	0	0	0	0
	1	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	0	0	0	0	0	0	0	0	0	0	0

TABLE 011

BASP TOXICOLOGY - DATATON AC.2  
PROJECT NUMBER 488378/8877  
REG. NO. 83 258

GROUP MEANS  
HEMATOLOGICAL EXAMINATIONS  
PRINT DATE 12-OCT-88

Nominal days in study 30 P.d.

GROUP	WBC GIGA/L	RBC TERA/L	HGB MMOL/L	HCT L/L	MCV FL	MCH FMOL	MCHC MMOL/L	PLT GIGA/L
0 MG/8G	M 6.00 SD 0.08 N 10	5.42 0.34 10	7.91 0.46 10	0.402 0.023 10	74.10 2.43 10	1.48 0.05 10	19.70 0.47 10	412 97 10
400 MG/8G	M 7.22 SD 1.03 N 10	5.18 0.30 10	7.76 0.52 10	0.384 0.020 10	76.40* 2.03 10	1.51* 0.06 10	19.70 0.40 10	473 134 10

Statistical: Anova + Students t-tests (two-tailed); \* P<0.05; \*\* P<0.01; \*\*\* P<0.001 (Statistical unit = Animal)

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TABLE 01:

13-OCT-69

BASE TOXICOLOGY PROJECT NUMBER 4080375/80077 Reg. No. 63 256 (Vincristine)

DIFFERENTIAL BLOOD COUNT

GROUP MEANS

Normal days in study 20 P-1.

F E M A L E S

GROUP	MEAN	SD	N	WBC G/ML	EOS %	BAO %	BAND %	POLY %	LYMP %	MONO %
GROUP 0 0 MG/KG	6.00	0.00	10	3.00	0.37	0.37	38.78	55.05	2.42	
				1.03	0.60	0.60	8.63	8.00	1.00	
				10	10	10	10	10	10	
GROUP 1 400 MG/KG	7.32	1.03	10	2.00	0.80	0.80	42.20	50.70	2.00	
				1.26	0.78	0.88	8.85	8.88	1.32	
				10	10	10	10	10	10	

TABLE 013

13-OCT-89

BASP TOXICOLOGY  
PROJECT NUMBER 400376/0077

REG. NR. 03 258 (Vinclozolin)

GROUP MEANS DIFFERENTIAL BLOOD COUNT

Normal days in study 20 P.o.

F E M A L E S

GROUP	WBC GIGA/L	EOS GIGA/L	BAZO GIGA/L	BAND GIGA/L	POLY GIGA/L	LYMP GIGA/L	MONO GIGA/L
GROUP 0 0 MG/KG	M 0.88 SD 0.09 M 10	M 0.03 SD 0.05 M 10	M 0.10 SD 0.12 M 10	M 0.02 SD 0.04 M 10	M 2.53 SD 0.55 M 10	M 3.06 SD 0.06 M 10	M 0.16 SD 0.17 M 10
GROUP 1 400 MG/KG	M 7.32 SD 1.03 M 10	M 0.06 SD 0.06 M 10	M 0.10 SD 0.10 M 10	M 0.07 SD 0.07 M 10	M 3.13 SD 0.97 M 10	M 3.08 SD 0.04 M 10	M 0.20 SD 0.09 M 10

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TABLE 014

BASF TOXICOLOGY - DATATOR MC.2  
PROJECT NUMBER 4090379/00077  
REG. NO. 03 250

PRINT DATE 12-OCT-69

GROUP MEANS  
RETICULOCYTES

Nominal days in study 20 Pof.

F E M A L E S  
GROUP 0 RETI  
0/00

0 MG/KG M 10  
SD 6  
N 10

GROUP 1  
400 MG/KG M 20\*\*  
SD 15  
N 10

Statistics: Anova + Student's t-tests (two-sided); \* p<0.05; \*\* p<0.001 (Statistical unit = Animal)



Tab. 015

OHSF Department of Toxicology  
 REG. NO. 03 750, PRAENATAL, TOR STUDY.  
 ADMINISTRATION BY GAVAGE IN RABBITS.  
 ABSOLUTE WEIGHTS - MEAN VALUES  
 10000312/0001  
 Dec/13/1988 0071  
 AUSAIA  
 0001001

	Sacrifice group		P1	P	I
	0	10			
Body weight	2014.047	2017.0			
	SD 140.000	100.741			
Liver	50.020	55.535			
	SD 6.17	6.417			
Aeroseal glands	0.31	0.237			
	SD 0.034	0.034			

Summits test  
 P < 0.05 vs P < 0.01  
 two sided (statistical unit = animal)

8311  
003311

Tab. 016

OASD Department of Toxicology 4080313/08017  
 Dec/13/1988 MOFO  
 REG. NO. 03 250. PRELIMINARY FOR STUDY. SCORAL  
 ADMINISTRATION BY GAVAGE IN RABBIT SEX  
 RELATIVE WEIGHTS - MEAN VALUES PER/001

	Sacrifice group		F1	P	S	100.
	SP	CP				
Body weight	SP	CP	100.	100.	100.	100.
Liver	SP	CP	1.777	3.05**	0.203	10.
	SP	CP	0.106	0.007	0.001	10.
Adrenal glands	SP	CP	0.007	0.001	0.001	10.
	SP	CP	0.001	0.001	0.001	10.

Dunnett test \*\* P < 0.01  
 \* P < 0.05  
 two sided (statistical unit = animal)

15-DEC-68  
00077

PROJECT NO. 4000375/00077, PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF MATERNAL NECROPSY OBSERVATIONS

TABLE 1 017

ORGANS EXAMINED	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 400 MG/RG BW/DAY	
	N	%	N	%
NOTHING ABNORMAL DETECTED	20	100.0	20	10.0
HEART: DILATION	0	0.0	1	5.0
HEART: DISCOLORATION	0	0.0	6	30.0
LUNGS: EDEMA	0	0.0	2	10.0
LIVER: DISCOLORATION	0	0.0	8	40.0
LIVER: PROMINENT ACINAR PATTERN	0	0.0	1	5.0
KIDNEYS: DISCOLORATION	0	0.0	1	5.0
PARTICULAR FINDINGS ON IMPLANTS IN OVARIA WHICH ABORTED	0	0.0	10	50.0
UTERUS: DIVERTICULUM	0	0.0	1	5.0

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15-DEC-80

88077

TABLE 1 010

PROJECT NO. 4090375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF REPRODUCTION DATA

TEST GROUP 0      TEST GROUP 1  
 CONTROL CMC      400 MG/MG BW/DAY

	TEST GROUP 0		TEST GROUP 1	
	CONTROL CMC		400 MG/MG BW/DAY	
Females Mated	N	20	N	20
Pregnant	M	18	M	20
	%	90	%	100
Aborteds	N	0	N	10
Premature Births	N	0	N	0
Sams with Viable Fetuses	N	18	N	8
Sams with all Resorptions	N	0	N	2
Female Mortality	N	0	N	10 <sup>b</sup>
	%	0.0	%	50
Pregnant at C-section	N	18	N	10 <sup>b</sup>
	%	90	%	50
Corpora Lutea	MEAN	7.8	MEAN	7.4
	S.D.	1.84	S.D.	1.43
	TOTAL	181	TOTAL	74
Implantation Sites	MEAN	6.7	MEAN	9.2
	S.D.	2.16	S.D.	2.26
	TOTAL	127	TOTAL	93
Preimplantation Loss	MEANS	17.2	MEANS	20.2
	S.D.	17.87	S.D.	22.71
Postimplantation Loss	MEANS	10.3	MEANS	32.0 <sup>a</sup>
	S.D.	18.63	S.D.	37.71

..... SIGNIFICANTLY DIFFERENT FROM CONTROL, a = P<0.05, b = P<0.01.

15-DEC-68

88877

TABLE 1 018

PROJECT NO. 4080375/88877; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF REPRODUCTION DATA

Treatment at C-section	N	TEST GROUP 0		TEST GROUP 1	
		MEAN	S.D.	MEAN	S.D.
Receptions: Total	10	1.5	1.1	1.1	1.1
		0.00	0.00	0.00	0.00
	10				
		10.3	37.00	10.3	37.00
		10.53	37.71	10.53	37.71
Early	0.4	0.4	0.0	0.4	0.0
	0.03	0.03	0.00	0.03	0.00
	7				
		7.0	20.2	7.0	20.2
		17.00	31.65	17.00	31.65
Late	0.2	0.2	0.2	0.2	0.2
	0.37	0.37	0.42	0.37	0.42
	3				
		3.4	6.7	3.4	6.7
		0.67	16.16	0.67	16.16
Dead Fetuses	0	0	0	0	0

--- SIGNIFICANTLY DIFFERENT FROM CONTROL; a = P < 0.05; b = P < 0.01.

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15-DEC-88

88077

TABLE 1

6

PROJECT NO. 4080375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF REPRODUCTION DATA

TEST GROUP 0      TEST GROUP 1  
 CONTROL CMC      400 MG/KG BW/DAY

Dams with Viable Fetuses      N      18      0

Live Fetuses      MEAN      6.2      5.3  
                   S.D.      2.57      1.98  
                   TOTAL      117      42  
                   MEANS      6.7      63.0  
                   S.D.      18.53      14.77

Females      MEAN      3.3      3.4  
                   S.D.      1.86      1.82  
                   TOTAL      63      37  
                   MEANS      59.3      84.3  
                   S.D.      18.88      28.34

Males      MEAN      2.8      1.8  
                   S.D.      1.05      1.55  
                   TOTAL      54      16  
                   MEANS      39.4      29.7  
                   S.D.      18.42      21.25

PER CENT LIVE FEMALES      53.0      64.3  
 PER CENT LIVE MALES      46.2      35.7

-----  
 SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

15-DEC-88

80077

TABLE 1 021

PROJECT NO. 4080378/80077, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)  
MEAN PLACENTAL AND FETAL BODY WEIGHTS

TEST GROUP 0 TEST GROUP 1  
CONTROL CMC 400 MG/KG BW/DAY

PLACENTAL WEIGHTS UNITS, GRAMS

	MEAN	S.D.	N
of all Viable Fetuses	4.4	0.76	10
of Male Fetuses	4.3	0.88	10
of Female Fetuses	4.4	0.88	10

FETAL WEIGHTS UNITS, GRAMS

	MEAN	S.D.	N
of all Viable Fetuses	39.0	3.93	10
of Male Fetuses	39.0	4.38	10
of Female Fetuses	40.1	4.07	10

..... SIGNIFICANTLY DIFFERENT FROM CONTROL, \* p < 0.05, b = p < 0.01.

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88077

TABLE 1 02

PROJECT NO. 4090375/88077: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED FETAL EXTERNAL OBSERVATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 400 MG/MG BW/DAY
Litters Evaluated	N 19	N 42
Fetuses Evaluated	N 117	N 42
Live	N 117	N 42
Dead	N 0	N 0
<b>TOTAL MALFORMATIONS</b>		
Petal Incidence	M 0.0	M 0.0
Litter Incidence	M 0.0	M 0.0
Affected Fetuses/Litter	MEANS 0.7	MEANS 0.0
	S.D. 2.87	S.D. 0.00
<b>TOTAL VARIATIONS</b>		
Petal Incidence	M 0.0	M 0.0
Litter Incidence	M 0.0	M 0.0
Affected Fetuses/Litter	MEANS 0.0	MEANS 0.0
	S.D. 0.00	S.D. 0.00

-----  
 SIGNIFICANTLY DIFFERENT FROM CONTROL: \* = P<0.05; \*\* = P<0.01.



15-DEC-68

00077

TABLE 1 02

PROJECT NO. 40R0375/80077, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF FETAL EXTERNAL MALFORMATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 400 MG/KG BW/DAY
Litters Evaluated	10	0
Postures Evaluated	117	42
Live	117	42
Dead	0	0
<b>CHROMOSOMES</b>		
Fetal Incidence	1	0
Litter Incidence	0.0	0.0
	5.3	0.0
<b>TOTAL FETAL EXTERNAL MALFORMATIONS</b>		
Fetal Incidence	1	0
Litter Incidence	0.0	0.0
	5.3	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05; b = P<0.01.

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88077

TABLE 1

PROJECT NO. 40A0375/88077, PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL EXTERNAL VARIATIONS

TEST GROUP 0      TEST GROUP 1  
 CONTROL CMC      405 MG/4G 8H/DAY

Litters Evaluated	M	19	0
Fetuses Evaluated	M	117	42
Live	M	117	42
Dead	M	0	0

TOTAL FETAL EXTERNAL VARIATIONS

Total Incidence	M	0	0
Litter Incidence	M	0.0	0.0
	M	0.0	0.0
	F	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05, b = P<0.01.

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18-DEC-88

80077

TABLE 1 021

PROJECT NO. 4080378/80077; PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF FETAL INTERNAL UNCLASSIFIED OBSERVATIONS

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/KG BW/DAY
Litters Evaluated	19	0
Fetuses Evaluated	117	42
Live	117	42
Dead	0	0
TOTAL FETAL INTERNAL UNCLASSIFIED OBSERVATIONS		
Total Incidence	0.0	0.0
Litter Incidence	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05, b = P<0.01.

8311  
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PROJECT NO. 4000375/00077, PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED FETAL SOFT TISSUE OBSERVATIONS

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/KG BW/DAY
Litters Evaluated	10	42
Fetuses Evaluated	117	42
Live	117	0
Dead	0	0
<b>TOTAL MALFORMATIONS</b>		
Petal Incidence	0.0	0.0
Litter Incidence	0	0.0
Affected Fetuses/Litter	0.0	0.00
MEANS		
S.D.		
<b>TOTAL VARIATIONS</b>		
Petal Incidence	23	200
	19.7	47.6
Litter Incidence	11	7
	97.6	87.5
Affected Fetuses/Litter	20.2	83.89
MEANS	28.40	32.93
S.D.		

-----  
 SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05. b = P<0.01.

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00077

PROJECT NO. 4000375/00077: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SOFT TISSUE MALFORMATIONS

TABLE 1 077

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/MG BW/DAY
Litters Evaluated	10	0
Fetuses Evaluated	117	42
Live	117	42
Dead	0	0
TOTAL FETAL SOFT TISSUE MALFORMATIONS		
Fetal Incidence	0	0
Litter Incidence	0.0	0.0
	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL, a = P<0.05, b = P<0.01.

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15-DEC-68

80877

TABLE 1 028

PROJECT NO. 4080375/80877; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SOFT TISSUE VARIATIONS

	TEST GROUP 0 CONTROL CMC	TEST GROUP 1 400 MG/KG BW/DAY
Litters Evaluated	19	42
Fetuses Evaluated	117	42
Live	117	42
Dead	0	0
SEPARATED ORIGIN OF CAROTIDS		15b
Fetal Incidence	12	35.7
Litter Incidence	10.3	8
	47.4	75.0
HEART, TRACES OF INTERVENTRIC.FORAMEN/SEPTUM MEMBRANEUM		5
Fetal Incidence	11	14.3
Litter Incidence	0.4	3
	26.5	37.5
HYPOPLASIA OF GALLBLADDER		0
Fetal Incidence	1	0.0
Litter Incidence	0.0	0
	5.3	0.0
TOTAL FETAL SOFT TISSUE VARIATIONS		20b
Fetal Incidence	23	47.6
Litter Incidence	10.7	7
	57.0	87.5

-----  
 SIGNIFICANTLY DIFFERENT FROM CONTROL; a = P<0.05; b = P<0.01.

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00077

TABLE 1 020

PROJECT NO. 4080376/00077, PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SOFT TISSUE UNCLASSIFIED OBSERVATIONS

	TEST GROUP 0	TEST GROUP 1
	CONTROL CMC	400 MG/KG BW/DAY
Litters Evaluated	10	0
Fetuses Evaluated	117	42
Live	117	42
Dead	0	0
TOTAL FETAL SOFT TISSUE UNCLASSIFIED OBSERVATIONS		
Fetal Incidence	0	0
Litter Incidence	0.0	0.0
	0	0
	0.0	0.0

.....  
 SIGNIFICANTLY DIFFERENT FROM CONTROL. 0 = P<0.05, 1 = P<0.01.

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88077

TABLE : 030

PROJECT NO. 4080375/88077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED FETAL SKELETAL OBSERVATIONS

	TEST GROUP 0 CONTROL CMC		TEST GROUP 1 400 MG/MG BW/DAY	
Litters Evaluated	N	19	N	8
Fetuses Evaluated	N	117	N	42
Live	N	117	N	42
Dead	N	0	N	0
<b>TOTAL MALFORMATIONS</b>				
Fetal Incidence	%	0.0	%	0.0
Litter Incidence	%	0.0	%	0.0
Affected Fetuses/Litter	MEANS	0.0	MEANS	0.0
	S.D.	0.00	S.D.	0.00
<b>TOTAL VARIATIONS</b>				
Fetal Incidence	%	14	%	14.3
		12.0		14.3
Litter Incidence	%	8	%	3
		43.1		37.8
Affected Fetuses/Litter	MEANS	13.1	MEANS	12.3
	S.D.	19.72		17.43
<b>TOTAL RETARDATIONS</b>				
Fetal Incidence	%	88	%	148
		58.1		33.3
Litter Incidence	%	18	%	8
		84.2		62.8
Affected Fetuses/Litter	MEANS	84.9	MEANS	33.3
	S.D.	38.08		38.73

-----  
 SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05, b = P<0.01.



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TABLE : 031

PROJECT NO. 4080378/88077: PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)

SUMMARY OF FETAL SKELETAL MALFORMATIONS

TEST GROUP 0 TEST GROUP 1  
CONTROL CMC 408 MG/RO BW/DAY

Litters Evaluated	M	18	0
Posture Evaluated	M	117	42
Live	M	117	42
Dead	M	0	0

TOTAL FETAL SKELETAL MALFORMATIONS

Fetal Incidence	M	0.0	0.0
Litter Incidence	M	0.0	0.0

SIGNIFICANTLY DIFFERENT FROM CONTROL: a - P<0.05; b - P<0.01

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15-DEC-88

88077

TABLE : 032

PROJECT NO. 4080375/88077: PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF FETAL SKELETAL VARIATIONS

	TEST GROUP 0		TEST GROUP 1	
	CONTROL LMC		400 MG/KG BW/DAY	
Litters Evaluated	M	19	M	8
Fetuses Evaluated	M	117	M	42
Live	M	117	M	42
Dead	M	0	M	0
<b>SPLITTING OF SKULL BONE(S)</b>				
Total Incidence	M	4	M	0
Litter Incidence	M	3.4	M	0.0
	M	4	M	0
	M	21.1	M	0.0
<b>SPACIAL BONE BETWEEN NASAL AND FRONTAL BONES</b>				
Total Incidence	M	2	M	0
Litter Incidence	M	1.7	M	0.0
	M	2	M	0
	M	10.0	M	0.0
<b>ACCESSORY THORACIC VERTEBRA</b>				
Total Incidence	M	1	M	0
Litter Incidence	M	0.9	M	0.0
	M	1	M	0
	M	5.3	M	0.0
<b>CLAVICULA DEFORMED</b>				
Total Incidence	M	0	M	1
Litter Incidence	M	0.0	M	2.4
	M	0	M	12.5
<b>STERNEBRA(S) OF IRREGULAR SHAPE</b>				
Total Incidence	M	2	M	0
Litter Incidence	M	1.7	M	0.0
	M	2	M	0
	M	10.5	M	0.0
<b>STERNEBRA(S) BIPARTITE</b>				
Total Incidence	M	1	M	0
Litter Incidence	M	0.9	M	0.0
	M	1	M	0.0
	M	5.3	M	0.0
<b>STERNEBRAE FUSED</b>				
Total Incidence	M	2	M	1
Litter Incidence	M	1.7	M	2.4
	M	2	M	12.5

..... SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05, b = P<0.01.

15-DEC-89  
88077

PROJECT NO. 40R0375/88077, PRENATAL TOXICITY STUDY IN RABBITS

ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF FETAL SKELETAL VARIATIONS

TABLE 1 033

	TEST GROUP 0		TEST GROUP 1	
	CONTROL CMC	400 MG/RS BW/DAY	CONTROL CMC	400 MG/RS BW/DAY
Litters Evaluated	N	10	N	0
Parturds Evaluated	N	117	N	42
Live	N	117	N	42
Dead	N	0	N	0
ACCESSORY 13TH RIB(S)				
Total Incidence	N	4	N	2
Litter Incidence	N	3.4	N	4.8
	N	3	N	1
	N	18.0	N	12.5
FLYING RIB(S)				
Total Incidence	N	0	N	2
Litter Incidence	N	0.0	N	4.0
	N	0.0	N	1
	N	0.0	N	12.0
13TH RIB(S) ABSENT				
Total Incidence	N	1	N	0
Litter Incidence	N	0.9	N	0.0
	N	1	N	0.0
	N	5.3	N	0.0
TOTAL FETAL SKELETAL VARIATIONS				
Total Incidence	N	14	N	6
Litter Incidence	N	12.0	N	14.3
	N	43.1	N	37.5

SIGNIFICANTLY DIFFERENT FROM CONTROL: a = P<0.05, b = P<0.01.

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18-DEC-88  
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PROJECT NO. 4080J75/80077, PRENATAL TOXICITY STUDY IN RABBITS  
ORAL ADMINISTRATION (GAVAGE)  
SUMMARY OF FETAL SKELETAL RETARDATIONS

TABLE

	TEST GROUP 0		TEST GROUP 1	
	CONTROL CMC	400 MG/RG BW/DAY		
Litters Evaluated	N	19	0	0
Fetuses Evaluated	N	117	42	42
Live	N	117	42	42
Dead	N	0	0	0
<b>SKULL INCOMPLETELY OSSIFIED</b>				
Fetal Incidence	N	5	7	4
Litter Incidence	N	4.3	4.8	2
	N	5	2	28.0
<b>STERNURAE(1) NOT OSSIFIED</b>				
Fetal Incidence	N	38	7	7
Litter Incidence	N	30.8	16.7	16.7
	N	12	3	37.5
	N	63.2	0	0
<b>STERNURAE(1) INCOMPLETELY OSSIFIED OR REDUCED IN SIZE</b>				
Fetal Incidence	N	31	6	6
Litter Incidence	N	26.5	14.3	14.3
	N	13	4	50.0
	N	68.4	0	0
<b>TOTAL FETAL SKELETAL RETARDATIONS</b>				
Fetal Incidence	N	68	14b	14b
Litter Incidence	N	68.1	33.3	33.3
	N	18	8	8
	N	84.2	67.5	67.5

.....  
SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05, b = P<0.01.

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10-DEL-88

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TABLE

PROJECT NO. 4000375/00077; PRENATAL TOXICITY STUDY IN RABBITS  
 ORAL ADMINISTRATION (GAVAGE)  
 SUMMARY OF ALL CLASSIFIED PATAL INTERNAL, SOFT TISSUE, AND SKELETAL OBSERVATIONS

TEST GROUP 0 400 MG/RO BW/DAY  
 TEST GROUP 1  
 CONTROL CMC

Litters Evaluated	N	19	0
Fetuses Evaluated	M	117	42
Live	M	117	42
Dead	M	0	0

TOTAL MALFORMATIONS

Total Incidence	M	1	0
Litter Incidence	M	0.0	0.0
Affected Fetuses/Litter	M	0.3	0.0
MEANS		0.7	0.0
S.D.		2.07	0.00

TOTAL VARIATIONS

Total Incidence	M	32	226
Litter Incidence	M	27.4	52.4
Affected Fetuses/Litter	M	12	7
MEANS		60.4	87.6
S.D.		20.8	56.00
		26.05	30.75

TOTAL RETARDATIONS

Total Incidence	M	60	146
Litter Incidence	M	50.1	33.3
Affected Fetuses/Litter	M	16	8
MEANS		84.3	82.6
S.D.		54.8	33.3
		35.08	36.73

SIGNIFICANTLY DIFFERENT FROM CONTROL. a = P<0.05; b = P<0.01.

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