PROJECT NO.
REPORT FILE

Industrial **BIO-TEST** *Laboratories, Inc.*
1810 FRONTAGE ROAD
NORTHBROOK, ILLINOIS 60062

#1
13TL-71-10

REPORT TO

MONSANTO COMPANY

TWO-YEAR CHRONIC ORAL TOXICITY STUDY WITH AROCLOR 1242 IN BEAGLE DOGS

NOVEMBER 1, 1971

IBT NO. C7299

TOXSTUDIES1276

BTL-71-70

Industrial **BIO-TEST** *Laboratories, Inc.*
1810 FRONTAGE ROAD
NORTHBROOK, ILLINOIS 60062

November 1, 1971

Mr. Elmer P. Wheeler
Monsanto Company
800 N. Lindbergh Boulevard
St. Louis, Missouri 63166

Dear Mr. Wheeler:

Re: IBT No. C7299 - Two-Year Chronic Oral Toxicity Study With Aroclor 1242 In Beagle Dogs

We are submitting herewith our laboratory report dated November 1, 1971, prepared in connection with the above study.

Very truly yours,

J. C. Calandra

J. C. Calandra
President

JCC:sjn

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REPORT TO

MONSANTO COMPANY

TWO-YEAR CHRONIC ORAL TOXICITY STUDY WITH
AROCLOR 1242
IN BEAGLE DOGS

NOVEMBER 1, 1971

IBT NO. C7299

I. Introduction

A sample identified as Aroclor 1242, Lot #AK-255, was received from Monsanto Company for the purpose of conducting a two-year chronic oral toxicity study using purebred beagle dogs. The following report presents the results of the investigation.

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II. Summary

A two-year chronic oral toxicity study with Aroclor 1242 administered to purebred beagle dogs at dietary levels of 1, 10 and 100 ppm revealed no significant abnormalities in the following parameters:

Body Weights
Food Consumption
Behavioral Reactions
Hematologic Studies
Blood Chemistry Studies
Urine Analyses

However, a female receiving 100 ppm was sacrificed in extremis after 60 weeks of testing. Gross and histologic examinations revealed severe chronic peritonitis in this animal. A male receiving 10 ppm died after 82 weeks of testing. The cause of death was attributed to chronic pneumonia. Histologic examination revealed no abnormalities related to test material ingestion. No other fatalities occurred during the study.

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Gross and histologic examinations of all remaining animals revealed no significant abnormalities.

Respectfully submitted,

INDUSTRIAL BIO-TEST LABORATORIES, INC.

Report prepared by: Bruce R Burtner
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Manager, Toxicology

November 1, 1971

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III. Procedure

A. Organization

The two-year toxicity study utilized an untreated control group and three test groups, each consisting of eight purebred beagle dogs (four males and four females). The beagles were all eligible for A. K. C. registration and had been previously immunized against rabies, distemper, infectious canine hepatitis and leptospirosis.

All dogs were acquired from our own colony and were under observation for two weeks prior to the start of the investigation, during which time they were re-immunized and rendered clinically free of any existing parasitic infestation.

During the investigation, the selected animals were housed in kennels equipped with outside runs, four dogs of the same sex and group being accommodated in a single kennel.

The material to be tested, Aroclor 1242, was incorporated into a stock diet and fed to the dogs seven days a week at three graded dietary levels. The levels were 1, 10 and 100 ppm.

An outline of the test organization and diet composition is presented in Table I.

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TABLE I

TEST MATERIAL: **Aroclor 1242**

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Test Organization and Diet Composition

Group	Number of Animals Tested		Dietary Constituents, percent (w/w)	
	Males	Females	Aroclor 1242	Stock Food*
UC	4	4	None	100.0000
I	4	4	0.0001	99.9999
II	4	4	0.0010	99.9990
III	4	4	0.0100	99.9900

* Purina Dog Meal, Ralston Purina Company, St. Louis, Missouri.

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B. Parameters Investigated

Initially, the body weight of each dog in every group was determined and recorded. Thereafter, weighings were conducted weekly for the duration of the test.

At the beginning of each week, the appropriate dietary constituents for each of the groups were thoroughly blended in a Hobart mixer. Preweighed amounts were distributed into self-feeding units and maintained in excess of the animals' consumption. One such unit was available to the dogs in each kennel for three hours each day. During these three-hour intervals, food was consumed on an ad libitum basis. At the end of each seven-day period, all unconsumed food was collected and weighed. Food consumption was then calculated and recorded. Water was available to the animals at all times.

The dogs were under observation during the investigation and were examined daily for clinical signs or symptoms indicative of systemic toxicity.

The following determinations were conducted upon each dog from the untreated control group and three test groups just prior to the inception of the study and after 1, 3, 6, 12, 18 and 24 months of testing:

Hematologic Studies

total leukocyte count
erythrocyte count
hemoglobin
hematocrit
differential leukocyte count

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Blood Chemistry Studies

blood urea nitrogen
serum glucose
serum alkaline phosphatase
serum glutamic - oxalacetic transaminase
serum glutamic - pyruvic transaminase

Urine Analyses

albumin
glucose
pH
specific gravity
microscopic elements - leukocytes
erythrocytes
crystals

At the conclusion of the investigation, the dogs from each group were sacrificed by electric shock. All major tissues and organs were examined grossly. The weights of the following organs were obtained: liver, kidneys, heart, brain, spleen, gonads, adrenal glands, thyroid gland and pituitary gland. The following tissues and organs excised from these animals were examined histologically (Hematoxylin-Eosin stain):

Adrenal glands
Aorta (thoracic)
Bone marrow (sternum)
Brain (cerebrum, cerebellum, pons)
Caecum
Colon
Esophagus
Gall bladder
Gonads
Heart
Kidneys
Liver
Lymph nodes (cervical, mesenteric)
Muscle
Pancreas
Peripheral nerve (sciatic)
Pituitary gland
Prostate gland
Salivary gland (submaxillary)
Small intestine (duodenum, jejunum, ileum)
Spinal cord
Spleen
Stomach (cardia, fundus, pylorus)
Trachea
Thyroid gland
Uterus
Urinary bladder

In addition, samples of liver, kidneys, muscle and fat were frozen and saved for chemical residue analyses.

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IV. Results

A. Body Weight Data

Body weight data are presented in Tables II and III. No abnormalities related to test material ingestion were noted at any of the levels tested.

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TABLE II

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Age at Inception of Test (months)	Body Weights at Week Indicated												
				0	1	2	3	4	5	6	7	8	9	10	11	12
UC	None	1	6.5	6.4	6.5	6.8	6.8	6.8	7.0	6.9	7.0	6.8	7.0	7.2	7.3	7.4
		2	6.0	7.1	7.0	7.4	7.2	7.7	8.0	7.8	8.0	8.1	8.4	8.7	8.8	8.9
		3	4.8	6.3	6.6	6.9	7.1	7.3	7.5	7.3	7.8	8.3	8.2	8.3	8.8	8.8
		4	4.8	7.8	7.9	8.4	8.5	8.9	9.2	9.4	10.0	9.8	10.4	10.5	11.0	11.0
		Mean	5.5	6.9	7.0	7.4	7.4	7.7	7.9	7.9	8.2	8.2	8.5	8.7	9.0	9.0
I	1	9	4.8	7.2	7.4	7.6	7.6	7.8	8.0	8.0	8.1	8.2	8.3	8.6	9.1	9.2
		10	4.8	6.7	6.6	6.9	7.1	7.3	7.5	7.9	8.3	8.3	8.5	8.8	9.2	9.4
		11	4.8	7.3	7.3	7.3	7.8	8.2	8.2	8.4	9.2	9.2	9.2	9.4	10.3	10.2
		12	4.8	6.3	6.6	6.9	7.1	7.4	7.7	7.9	8.0	8.1	8.2	8.5	8.9	9.1
		Mean	4.8	6.9	7.0	7.2	7.4	7.7	7.8	8.0	8.4	8.4	8.6	8.8	9.4	9.5
II	10	17	6.8	9.1	9.5	10.0	10.1	10.3	10.5	10.4	10.5	10.6	10.7	11.0	11.6	11.3
		18	6.5	9.4	8.9	8.9	9.1	9.3	9.9	10.2	10.2	10.5	10.3	10.4	10.4	10.7
		19	6.5	9.7	9.4	9.7	9.9	10.2	10.4	10.4	10.5	10.5	10.7	11.0	16.3	11.7
		20	6.0	9.4	8.9	8.7	9.2	9.6	10.4	10.6	11.3	11.8	10.6	11.2	11.7	12.2
		Mean	6.4	9.4	9.2	9.3	9.6	9.8	10.3	10.4	10.6	10.8	10.6	10.9	11.2	11.5
III	100	25	4.8	6.5	7.0	7.3	7.4	7.5	8.2	8.2	8.4	8.4	8.6	8.8	8.9	8.8
		26	4.8	6.3	6.5	6.8	7.0	7.3	7.2	7.3	7.4	7.7	7.8	7.9	8.1	7.9
		27	4.8	6.6	6.8	7.0	7.2	7.6	7.9	8.1	8.5	8.4	8.6	9.0	9.3	9.3
		28	4.5	6.3	6.4	6.5	6.7	7.1	7.4	7.6	8.0	8.0	8.1	8.3	8.6	8.3
		Mean	4.7	6.4	6.7	6.9	7.1	7.4	7.7	7.8	8.1	8.1	8.3	8.5	8.7	8.6

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TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			13	14	15	16	17	18	19	20	21	22	23	24	25	26
UC	None	1	7.1	7.5	7.3	7.3	7.4	7.4	7.2	6.9	7.1	7.0	7.2	7.1	7.2	7.0
		2	8.8	9.1	9.2	9.4	9.5	9.4	9.6	9.5	9.7	9.7	9.9	9.8	9.6	10.0
		3	8.8	9.0	9.2	9.1	9.6	9.4	9.7	9.6	9.7	9.6	10.1	9.6	9.9	9.9
		4	11.1	11.5	11.5	12.0	12.0	12.4	12.9	12.8	12.5	12.1	12.8	13.0	13.1	13.0
		Mean	9.0	9.3	9.3	9.4	9.6	9.6	9.8	9.7	9.8	9.6	10.0	9.9	10.0	10.0
I	1	9	9.4	9.5	9.7	9.7	9.8	9.8	10.3	10.2	10.3	10.1	10.6	11.5	10.4	10.8
		10	9.4	9.8	9.9	10.0	10.2	10.6	11.0	11.0	11.0	10.9	11.6	11.5	11.6	11.5
		11	10.5	10.9	11.1	11.0	11.3	11.6	11.9	11.6	11.8	11.7	12.1	12.0	12.4	11.8
		12	9.1	9.7	9.6	9.7	9.9	10.1	10.7	10.3	10.7	10.7	10.7	10.7	10.9	11.2
		Mean	9.6	10.0	10.1	10.1	10.3	10.5	11.0	10.8	11.0	10.8	11.2	11.4	11.3	11.3
II	10	17	11.1	10.8	10.0	9.8	9.8	9.5	9.6	9.3	11.0	9.6	10.1	9.9	10.1	10.2
		18	10.4	10.9	10.8	11.1	10.3	9.8	10.5	10.6	11.0	10.2	10.8	10.8	10.7	11.6
		19	10.8	11.4	10.9	10.9	10.7	10.5	11.1	10.8	11.0	10.3	10.5	10.2	10.1	10.2
		20	11.9	12.2	12.2	12.0	11.5	11.3	12.7	12.4	12.8	12.3	12.5	12.5	12.9	13.1
		Mean	11.0	11.3	11.0	11.0	10.6	10.3	11.0	10.8	11.4	10.6	11.0	10.8	11.0	11.3
III	100	25	8.7	9.0	8.7	9.0	9.0	9.3	9.6	9.5	9.7	9.6	10.0	9.7	9.9	9.8
		26	8.0	8.5	8.3	8.5	8.3	8.9	8.9	9.0	9.0	8.9	9.3	9.0	9.2	9.2
		27	9.4	9.8	9.7	10.0	9.9	10.2	10.4	10.5	10.6	10.4	10.6	10.8	10.9	11.0
		28	8.5	8.7	8.9	8.3	9.4	9.5	10.0	10.1	10.1	9.9	10.0	9.9	10.1	10.0
		Mean	8.6	9.0	8.9	9.2	9.2	9.5	9.7	9.8	9.8	9.7	10.2	9.8	10.0	10.0

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TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 27	28	29	30	31	32	33	34	35	36	37	38	39	40
UC	None	1	7.4	6.9	7.2	7.0	7.1	7.2	7.2	7.2	7.1	7.5	7.4	7.4	7.3	7.1
		2	9.8	9.8	10.0	10.0	10.0	9.9	9.8	9.7	10.0	9.9	10.1	9.7	10.0	9.9
		3	9.9	9.8	10.0	10.0	10.0	9.9	9.7	9.7	10.0	10.2	10.2	10.2	10.3	10.2
		4	13.9	13.0	13.4	13.2	13.0	12.9	12.6	13.2	13.5	13.8	13.6	13.5	13.7	13.4
		Mean	10.2	9.9	10.2	10.0	10.0	10.0	9.8	10.1	10.2	10.4	10.3	10.2	10.3	10.2
I	1	9	10.5	10.7	10.6	10.7	10.6	10.5	10.5	10.3	10.7	11.0	10.8	10.8	11.0	10.6
		10	11.1	11.7	11.6	11.6	11.5	11.5	11.6	11.7	11.9	12.1	11.7	11.8	11.8	11.7
		11	12.3	12.7	11.6	11.8	11.7	12.1	12.3	12.6	12.5	13.0	12.6	12.5	12.5	12.4
		12	11.2	11.1	11.2	11.5	11.3	11.2	10.9	11.0	11.3	11.1	11.3	11.2	11.2	11.3
		Mean	11.3	11.6	11.2	11.4	11.3	11.3	11.3	11.4	11.6	11.8	11.6	11.6	11.6	11.5
II	10	17	10.1	10.2	10.2	10.5	10.5	10.5	10.4	10.6	10.8	11.0	10.9	10.8	11.0	10.8
		18	11.4	11.3	11.2	11.0	11.0	10.9	11.0	11.0	11.3	11.4	11.2	11.1	11.4	11.2
		19	10.2	10.4	10.4	10.5	10.5	10.6	10.6	10.7	11.3	11.3	11.0	11.2	12.0	11.2
		20	13.3	13.2	13.2	13.3	13.3	13.3	13.4	13.4	13.9	13.8	13.8	13.7	14.6	13.7
		Mean	11.2	11.3	11.2	11.3	11.3	11.3	11.4	11.4	11.8	11.9	11.7	11.7	12.2	11.7
III	100	25	10.0	10.1	9.9	10.2	10.1	10.1	10.2	10.2	10.7	11.0	10.5	10.3	10.4	10.3
		26	9.2	9.2	8.9	9.4	9.2	9.0	8.9	9.0	9.5	9.5	9.6	9.4	9.4	9.7
		27	11.1	11.0	10.9	11.2	11.0	10.9	10.7	11.0	11.4	11.4	11.2	11.2	11.3	10.4
		28	10.0	10.2	9.9	10.2	10.2	10.3	10.6	10.1	10.2	10.5	10.3	10.5	10.2	10.5
		Mean	10.1	10.1	9.9	10.2	10.1	10.1	10.1	10.1	10.4	10.6	10.4	10.4	10.3	10.2

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TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			41	42	43	44	45	46	47	48	49	50	51	52	53	54
UC	None	1	7.4	7.5	7.6	7.5	7.4	7.4	7.5	7.5	7.8	7.5	7.5	7.9	7.8	7.6
		2	10.0	10.0	10.0	9.9	10.0	10.0	10.1	10.0	10.4	10.1	9.7	9.9	10.4	10.2
		3	11.2	10.4	10.2	10.4	10.2	10.1	10.4	10.3	10.5	10.1	10.3	10.7	10.6	10.4
		4	13.5	13.6	13.6	13.5	13.4	13.2	13.4	13.3	13.7	13.6	13.8	14.1	14.4	14.4
		Mean	10.3	10.4	10.4	10.3	10.2	10.2	10.4	10.3	10.6	10.3	10.3	10.6	10.8	10.6
I	I	9	10.8	10.8	11.1	11.1	11.0	10.7	10.6	10.7	11.2	10.9	10.9	11.5	11.4	12.0
		10	11.8	12.1	12.5	12.2	12.0	11.8	11.9	12.0	12.2	12.4	11.9	12.1	12.4	11.8
		11	12.9	13.0	13.1	13.1	12.6	12.6	13.0	13.0	13.3	13.0	12.9	13.0	13.1	13.0
		12	11.4	11.6	12.1	12.2	12.0	11.9	12.0	12.2	12.2	12.1	12.0	12.5	12.4	12.4
		Mean	11.7	11.9	12.2	12.1	11.9	11.8	11.9	12.0	12.2	12.1	11.9	12.3	12.3	12.3
II	10	17	10.9	10.8	11.1	10.9	11.0	10.9	11.3	11.0	11.3	11.4	11.2	11.4	11.4	11.2
		18	11.6	11.5	11.7	11.5	11.3	11.3	11.6	11.6	11.7	12.0	11.7	11.6	11.6	11.9
		19	11.4	11.5	11.9	11.9	11.5	11.0	11.1	11.1	11.3	11.5	11.7	10.9	12.0	11.0
		20	13.8	14.0	14.5	13.9	13.5	13.6	13.9	14.0	14.0	14.1	13.5	14.1	14.1	14.1
		Mean	11.9	12.0	12.3	12.0	11.8	11.7	12.0	11.9	12.1	12.2	12.0	12.0	12.3	12.0
III	100	25	10.6	10.7	10.8	10.6	10.7	10.6	10.9	10.7	11.0	11.2	11.5	10.6	11.0	11.3
		26	9.5	8.4	9.8	9.8	9.5	9.5	9.9	9.8	10.2	9.8	9.9	10.2	10.1	10.1
		27	10.4	10.8	11.3	11.5	11.2	11.4	11.3	11.4	11.4	11.5	10.7	11.6	11.9	11.8
		28	10.4	10.5	10.6	10.6	10.2	10.4	10.5	10.6	10.8	10.6	10.8	10.9	11.0	10.8
		Mean	10.2	10.4	10.6	10.6	10.4	10.5	10.6	10.6	10.8	10.8	10.7	10.8	11.0	11.0

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TOXSTUDIES1289

TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			55	56	57	58	59	60	61	62	63	64	65	66	67	68
UC	None	1	7.5	7.7	7.7	8.0	7.8	7.8	7.9	7.8	7.9	7.9	7.6	7.8	8.1	8.0
		2	10.0	10.2	10.1	10.1	10.2	10.1	10.2	10.1	10.2	10.3	10.0	10.0	10.3	10.1
		3	10.2	10.3	10.2	10.4	10.4	10.5	10.3	10.1	10.1	10.1	10.4	10.4	10.4	10.5
		4	14.0	14.0	14.1	14.0	14.2	14.1	14.4	14.1	14.0	14.1	14.2	14.2	14.3	14.2
		Mean	10.4	10.6	10.5	10.6	10.6	10.6	10.7	10.5	10.6	10.6	10.6	10.6	10.8	10.7
I	1	9	11.2	11.1	11.1	11.2	11.3	10.8	11.0	10.9	11.0	11.4	11.6	11.5	11.5	11.4
		10	12.0	12.0	12.2	12.3	12.0	11.8	11.9	11.9	12.1	12.0	11.9	12.4	12.4	12.5
		11	12.2	10.8	10.6	9.8	9.4	9.1	9.5	10.3	11.3	11.7	12.1	12.6	13.1	12.9
		12	12.5	12.1	12.1	12.3	12.2	12.0	12.1	12.4	12.6	12.3	12.5	12.7	12.7	12.6
		Mean	12.0	11.5	11.5	11.4	11.2	10.9	11.1	11.4	11.8	11.8	12.0	12.3	12.4	12.4
II	10	17	11.3	11.1	11.3	11.2	11.1	11.4	11.2	11.0	11.4	11.3	11.2	11.2	11.4	11.0
		18	11.9	11.5	11.6	11.7	11.8	11.8	11.9	11.9	12.1	12.0	11.7	12.0	11.7	12.0
		19	12.0	11.9	12.2	12.0	12.0	12.1	11.9	11.9	12.1	12.0	12.0	12.2	12.1	11.8
		20	14.2	13.9	14.3	14.3	14.1	14.4	14.3	14.4	14.4	14.5	14.0	14.5	14.3	13.8
		Mean	12.4	12.1	12.4	12.3	12.2	12.4	12.3	12.3	12.5	12.4	12.2	12.5	12.4	12.1
III	100	25	11.2	10.7	10.2	10.1	10.1	10.1	10.3	10.2	10.0	10.5	10.1	10.5	10.6	10.5
		26	9.5	9.9	9.7	9.8	9.8	9.6	9.9	9.8	9.9	9.9	9.7	10.0	9.8	9.8
		27	11.8	11.8	11.9	11.9	11.9	11.9	12.0	11.9	12.2	12.0	12.0	12.0	12.4	12.4
		28	11.0	11.0	10.8	10.7	10.8	10.8	10.8	10.7	10.8	10.5	10.6	10.7	10.9	10.9
		Mean	10.9	10.8	10.6	10.6	10.6	10.6	10.8	10.6	10.7	10.7	10.6	10.8	10.9	10.8

TOXSTUDIES1290

TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated												
			69	70	71	72	73	74	75	76	77	78	79	80	81	82
UC	None	1	7.8	8.1	8.1	7.6	7.6	7.9	7.8	7.8	7.8	7.4	7.5	7.4	7.6	7.6
		2	9.9	9.9	10.3	9.7	10.0	10.1	10.1	10.1	10.0	9.7	9.7	9.2	9.2	9.3
		3	10.5	10.5	10.5	10.2	10.5	10.4	10.4	10.5	10.4	10.2	10.2	9.9	9.9	10.2
		4	14.2	14.4	14.5	14.1	14.4	14.5	14.3	14.4	14.4	14.1	14.1	13.2	13.4	13.5
		Mean	10.6	10.7	10.8	10.4	10.6	10.7	10.6	10.7	10.6	10.4	10.4	9.9	10.0	10.2
I	1	9	11.5	11.6	11.3	11.0	11.4	11.3	11.3	11.3	11.1	11.0	11.1	10.5	10.9	10.1
		10	12.4	12.6	12.4	12.2	12.5	12.7	12.6	12.7	12.6	12.5	12.8	12.3	12.6	12.7
		11	13.2	13.3	13.1	13.0	13.1	13.0	13.2	13.1	13.2	13.3	13.5	13.3	13.6	13.9
		12	12.6	12.6	12.7	12.4	12.6	12.5	12.6	13.0	13.0	12.9	12.6	12.5	12.2	12.6
		Mean	12.4	12.5	12.3	12.2	12.4	12.4	12.4	12.5	12.5	12.4	12.5	12.2	12.3	12.3
II	10	17	10.9	11.1	11.0	10.7	11.2	10.9	10.7	10.6	10.4	10.4	11.1	11.6	9.7	10.0
		18	11.8	11.9	11.9	11.6	11.6	11.6	11.8	11.9	11.6	11.5	11.5	11.0	11.1	10.6
		19	12.0	11.9	11.5	11.5	11.5	11.1	11.0	11.2	10.9	10.5	10.7	10.5	10.9	10.9
		20	14.2	14.5	14.3	14.0	14.4	13.9	14.1	13.9	14.0	14.0	14.2	14.0	14.2	14.2
		Mean	12.2	12.4	12.2	12.0	12.2	11.9	11.9	11.9	11.7	11.6	11.9	11.8	11.5	11.4
III	100	25	10.5	10.5	10.3	10.4	10.5	10.6	10.6	10.7	10.6	10.8	10.7	10.2	10.6	10.5
		26	9.8	10.0	10.2	10.1	10.2	10.3	10.1	10.2	10.0	10.2	10.1	9.7	10.0	10.0
		27	12.2	12.2	12.2	12.1	12.2	12.3	12.4	12.4	12.5	12.3	12.2	11.6	12.0	12.2
		28	10.8	11.1	11.2	11.0	10.9	11.0	10.7	11.0	10.8	10.6	10.7	10.2	11.0	11.2
		Mean	10.8	11.0	11.0	10.9	11.0	11.0	11.0	11.1	11.0	11.0	10.9	10.4	10.9	11.0

TOXSTUDIES1291

TABLE II continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			83	84	85	86	87	88	89	90	91	92	93	94	95	96
UC	None	1	7.4	7.6	7.6	7.6	7.6	7.6	7.6	7.6	8.0	7.5	7.6	7.8	7.7	7.8
		2	9.5	9.4	9.6	9.9	9.9	10.0	10.0	9.9	10.4	10.0	10.3	9.9	10.2	10.0
		3	10.2	10.2	10.1	10.5	10.5	10.4	10.2	10.5	10.6	10.5	10.5	10.5	10.4	10.2
		4	13.9	13.6	13.9	14.0	14.1	14.2	14.3	14.5	15.0	14.4	14.8	14.8	15.2	15.0
		Mean	10.2	10.2	10.3	10.5	10.5	10.6	10.5	10.6	11.0	10.6	10.8	10.8	10.9	10.8
I	1	9	11.0	11.0	11.0	11.0	11.0	11.0	9.9	10.9	11.3	10.4	11.1	10.8	10.8	11.1
		10	12.6	12.6	12.5	12.6	12.5	12.5	12.1	12.0	12.2	11.9	12.5	12.5	11.9	12.2
		11	13.6	13.5	14.1	14.1	14.1	14.1	13.8	13.5	13.9	13.1	13.5	13.2	13.5	14.0
		12	12.6	12.6	12.8	12.7	12.6	12.6	12.0	12.2	12.4	12.1	12.2	12.4	12.5	12.7
		Mean	12.4	12.4	12.6	12.6	12.6	12.6	12.0	12.2	12.4	11.9	12.3	12.0	12.2	12.5
II	10	17*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		18	11.0	11.0	11.1	11.2	11.3	11.3	11.3	11.2	11.8	11.1	11.5	11.5	11.2	11.5
		19	11.2	11.3	11.3	11.5	11.8	12.0	11.6	12.0	12.2	11.6	12.1	12.4	12.1	12.0
		20	14.1	14.2	14.3	15.0	14.5	14.4	14.4	14.5	15.0	14.3	14.5	14.4	14.3	14.4
		Mean	12.1	12.2	12.2	12.6	12.5	12.6	12.4	12.6	13.0	12.3	12.7	12.8	12.5	12.6
III	100	25	10.6	10.8	11.0	11.0	10.8	10.7	10.8	10.4	10.9	10.6	10.5	10.8	10.5	10.9
		26	10.0	10.2	10.0	10.0	10.0	10.1	10.3	10.3	10.5	10.4	10.5	10.5	10.5	10.5
		27	12.2	11.9	11.8	11.5	11.6	11.6	11.8	12.0	12.2	12.3	12.5	12.4	12.5	12.5
		28	11.0	11.1	11.0	11.6	11.0	10.7	10.7	11.0	11.0	11.0	11.0	11.0	11.2	11.2
		Mean	10.9	11.0	11.0	11.0	10.8	10.8	10.9	10.9	11.2	11.1	11.1	11.2	11.2	11.2

TOXSTUDIES1292

TABLE II continued

TEST MATERIAL: Arclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Males, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 97	98	99	100	101	102	103	104	Overall Weight Gain
UC	None	1	7.8	7.6	7.6	7.6	7.5	7.6	7.7	7.6	1.2
		2	10.0	9.8	10.0	9.8	9.9	10.0	10.0	10.0	2.9
		3	10.2	10.1	10.0	10.1	10.1	10.2	10.3	10.1	3.8
		4	14.7	14.5	14.2	14.4	14.4	14.4	14.6	14.8	7.0
		Mean	10.7	10.5	10.4	10.5	10.4	10.5	10.6	10.6	3.7
I	1	9	11.4	11.4	11.2	11.2	11.3	11.3	11.2	11.2	4.0
		10	12.5	12.1	12.2	11.9	11.9	12.0	12.1	12.3	5.6
		11	13.9	14.0	14.0	13.9	13.8	14.0	14.0	13.9	6.6
		12	12.6	12.5	12.5	12.2	12.2	12.4	12.6	12.5	6.2
		Mean	12.6	12.5	12.5	12.3	12.3	12.4	12.5	12.5	5.6
II	10	17*	-	-	-	-	-	-	-	-	(0.9)
		18	11.5	11.8	12.0	11.4	11.6	11.5	11.7	11.8	2.4
		19	11.9	11.3	11.8	11.5	11.5	11.6	11.8	11.7	2.0
		20	14.5	14.0	14.5	14.2	14.2	14.2	14.3	14.4	5.0
		Mean	12.6	12.4	12.8	12.4	12.4	12.4	12.6	12.6	3.1
III	100	25	10.7	10.5	10.5	10.7	10.6	10.7	10.5	10.6	4.1
		26	10.1	10.2	10.0	10.2	10.0	10.1	10.2	10.1	3.8
		27	12.7	12.5	12.6	12.2	12.3	12.2	12.1	12.2	5.6
		28	11.6	11.3	11.0	11.1	11.2	11.3	11.1	11.2	4.9
		Mean	11.3	11.1	11.0	11.0	11.0	11.1	11.0	11.0	4.6

Note: Overall weight gain for animal that died during the study is in parentheses and not included in the calculation of the mean.

TOXSTUDIES1293

TABLE III

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Age at Inception of Test (months)	Body Weights at Week Indicated												
				0	1	2	3	4	5	6	7	8	9	10	11	12
UC	None	5	6.0	6.4	6.6	6.8	6.8	7.1	7.3	7.2	7.5	7.4	7.5	7.5	7.3	6.7
		6	6.0	7.1	7.5	7.8	7.9	8.2	8.4	8.8	9.0	8.9	8.9	8.9	9.0	9.0
		7	4.8	6.5	6.4	6.9	7.2	7.3	7.4	7.4	7.8	7.7	7.7	7.7	7.9	8.1
		8	4.8	7.2	7.4	7.7	7.8	8.2	8.3	8.2	8.8	8.8	9.2	9.3	9.7	9.8
		Mean	5.4	6.8	7.0	7.3	7.4	7.7	7.8	7.9	8.2	8.2	8.3	8.4	8.5	8.4
I	1	13	6.0	6.2	6.4	6.7	6.9	7.3	7.4	7.6	7.8	8.0	8.0	8.0	8.0	8.1
		14	4.8	6.3	6.4	6.8	6.9	7.2	7.5	7.6	7.8	7.7	7.8	8.1	8.2	8.2
		15	4.8	6.1	6.2	6.6	6.8	7.2	7.5	7.7	7.9	7.8	8.1	8.3	8.4	8.4
		16	4.5	6.4	6.5	7.1	7.3	7.7	8.0	8.0	8.2	8.2	8.3	8.5	8.6	8.6
		Mean	5.0	6.2	6.4	6.8	7.0	7.4	7.6	7.7	7.9	7.9	8.0	8.2	8.3	8.3
II	10	21	9.0	6.2	6.0	6.4	6.7	7.0	7.2	7.0	7.3	7.3	7.7	7.8	7.8	7.9
		22	6.0	7.4	7.4	7.5	7.4	7.8	7.8	7.7	8.1	8.2	8.1	8.1	8.4	8.3
		23	4.8	6.5	6.0	6.3	6.7	7.0	7.4	7.3	7.7	7.9	8.0	8.4	8.8	8.8
		24	4.5	6.2	5.8	5.9	6.0	6.2	6.1	6.6	6.9	6.9	7.3	7.8	8.1	8.2
		Mean	6.1	6.6	6.3	6.5	6.7	7.0	7.1	7.2	7.5	7.6	7.8	8.0	8.3	8.3
III	100	29	6.8	7.7	8.1	8.2	8.5	8.8	8.8	8.8	9.2	9.0	9.2	9.3	9.5	9.3
		30	6.0	8.0	7.7	8.0	8.0	8.0	8.2	7.9	8.2	8.2	8.3	8.2	8.4	8.3
		31	4.8	6.8	6.8	7.1	7.4	7.8	7.6	7.6	8.5	8.2	8.5	8.8	9.3	9.4
		32	4.8	6.2	5.8	6.0	6.2	6.3	6.6	7.2	7.6	7.8	7.8	8.1	8.3	8.2
		Mean	5.6	7.2	7.1	7.3	7.5	7.7	7.8	7.9	8.4	8.3	8.4	8.6	8.9	8.8

TOXSTUDIES1294

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 13	14	15	16	17	18	19	20	21	22	23	24	25	26
UC	None	5	6.2	6.5	7.0	7.3	7.5	7.8	8.0	7.9	8.1	8.1	8.2	8.3	8.3	8.1
		6	9.0	9.0	9.1	9.1	9.3	9.1	9.3	9.5	9.5	9.4	9.6	9.4	9.5	9.5
		7	7.9	8.2	8.2	8.3	8.3	8.5	8.8	8.5	8.9	8.7	8.9	8.7	8.7	8.8
		8	9.9	10.1	10.2	10.3	10.4	10.5	10.5	10.2	10.4	10.4	10.9	10.9	10.9	10.9
		Mean	8.2	8.4	8.6	8.8	8.9	9.0	9.2	9.0	9.2	9.2	9.4	9.3	9.4	9.3
I	1	13	8.3	8.5	8.7	8.9	8.7	8.8	9.0	9.0	9.2	9.1	9.3	9.1	9.6	9.6
		14	8.2	8.6	8.3	8.6	8.5	8.9	8.8	8.5	8.7	8.4	8.9	8.5	8.5	8.5
		15	8.4	8.6	8.5	8.6	8.9	9.2	8.9	8.9	9.1	8.9	9.2	9.0	9.1	9.4
		16	8.8	8.9	8.8	9.0	9.0	8.9	9.2	9.3	9.5	9.2	9.5	9.5	9.5	9.5
		Mean	8.4	8.6	8.6	8.8	8.8	9.0	9.0	8.9	9.1	8.9	9.2	9.0	9.2	9.2
II	10	21	7.7	7.9	7.6	8.0	7.9	8.0	8.1	8.1	8.1	7.6	7.8	7.6	7.5	7.6
		22	8.1	8.3	8.2	8.3	8.3	8.4	8.5	8.5	8.8	8.6	8.7	8.7	8.9	8.8
		23	9.0	9.1	9.2	9.4	9.4	9.7	9.8	9.8	9.7	9.6	10.0	9.9	10.1	10.0
		24	8.4	8.7	8.7	8.7	8.9	9.2	9.2	9.3	9.4	9.2	9.7	9.7	9.9	9.6
		Mean	8.3	8.5	8.4	8.6	8.6	8.8	8.9	8.9	9.0	8.8	9.0	9.0	9.1	9.0
III	100	29	9.5	9.5	9.4	9.5	9.3	9.1	9.4	9.2	9.4	9.5	9.7	9.5	9.5	9.0
		30	8.0	8.5	8.5	8.6	8.3	8.4	8.7	8.7	8.7	8.9	9.0	8.7	8.8	8.6
		31	9.2	9.3	9.4	9.5	9.3	9.4	9.6	9.4	9.7	9.7	9.9	9.4	9.3	9.0
		32	8.5	8.8	8.7	9.0	9.2	9.4	9.8	9.6	9.9	9.9	10.2	10.0	10.2	10.2
		Mean	8.8	9.0	9.0	9.2	9.0	9.1	9.4	9.2	9.4	9.5	9.7	9.4	9.4	9.2

TOXSTUDIES1295

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			27	28	29	30	31	32	33	34	35	36	37	38	39	40
UC	None	5	8.3	8.3	8.3	8.4	8.5	8.6	8.5	8.5	8.9	8.5	8.4	8.4	8.6	8.5
		6	9.5	9.5	9.5	9.8	9.8	9.8	9.4	9.5	9.9	9.6	9.7	9.6	9.9	10.0
		7	8.8	8.9	9.2	9.1	9.2	9.3	9.2	9.1	9.3	9.3	9.2	9.0	9.0	9.1
		8	11.0	10.9	10.9	11.0	10.8	10.4	10.8	10.8	10.6	10.5	10.4	10.4	10.7	10.6
		Mean	9.4	9.4	9.5	9.6	9.6	9.5	9.5	9.5	9.7	9.5	9.4	9.4	9.6	9.6
I	1	13	9.5	9.1	9.2	9.0	9.0	9.0	8.9	8.9	9.0	9.1	8.9	8.7	8.7	8.7
		14	8.6	8.8	8.6	8.4	8.5	8.6	8.5	8.7	8.9	9.1	8.8	8.7	8.8	9.0
		15	9.4	9.5	9.5	9.2	9.7	9.9	9.9	9.9	9.9	10.2	9.9	9.8	10.1	10.1
		16	9.5	9.7	9.4	9.3	9.4	9.6	9.4	9.5	9.9	10.1	9.9	9.8	9.8	10.0
		Mean	9.2	9.3	9.2	9.0	9.2	9.3	9.2	9.2	9.4	9.6	9.4	9.2	9.4	9.4
II	10	21	7.7	7.4	7.2	7.1	7.3	7.5	7.5	7.7	7.6	7.7	7.4	7.6	8.0	7.9
		22	8.9	8.8	9.0	8.9	8.9	8.9	9.0	9.1	9.4	9.3	9.2	9.4	9.3	9.0
		23	10.1	10.2	10.0	10.0	10.1	10.2	10.0	10.0	10.2	10.4	10.2	10.1	10.0	10.0
		24	10.0	9.8	9.8	9.7	9.6	9.6	9.6	9.7	10.0	10.0	9.9	9.8	9.8	9.8
		Mean	9.2	9.0	9.0	8.9	9.0	9.0	9.0	9.1	9.3	9.4	9.2	9.2	9.3	9.2
III	100	29	9.1	9.6	9.6	9.4	9.4	9.4	9.3	9.5	9.7	9.5	9.4	9.4	9.6	9.4
		30	8.6	8.8	8.7	8.6	8.7	8.9	8.7	9.1	9.4	7.6	9.1	9.3	9.2	9.1
		31	9.4	9.6	9.5	9.3	9.4	9.5	9.5	9.8	9.9	10.3	9.9	10.1	10.2	10.0
		32	10.2	10.3	10.5	10.1	10.2	10.3	10.5	10.5	10.7	11.1	10.9	11.0	11.0	10.9
		Mean	9.3	9.6	9.6	9.4	9.4	9.5	9.5	9.7	9.9	10.1	9.8	10.0	10.0	9.8

TOXSTUDIES1296

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 41	42	43	44	45	46	47	48	49	50	51	52	53	54
UC	None	5	9.0	8.7	8.7	8.6	8.6	8.6	8.8	9.0	9.2	8.9	9.2	9.0	9.0	9.0
		6	10.7	10.4	10.4	10.3	10.1	10.0	10.1	10.2	10.3	9.8	10.0	9.7	9.7	9.7
		7	9.5	9.1	9.3	9.2	8.8	8.9	9.2	9.4	9.3	9.0	9.2	9.4	9.5	9.3
		8	11.2	11.0	11.2	11.2	11.1	10.8	11.4	11.5	11.8	11.1	11.5	11.5	11.7	11.9
		Mean	10.1	9.8	9.9	9.8	9.6	9.6	9.9	10.0	10.2	9.7	10.0	9.9	10.0	10.0
I	1	13	9.0	9.2	9.4	9.4	9.1	9.1	9.6	9.7	9.7	9.5	9.7	10.1	9.9	9.8
		14	9.0	8.9	9.1	9.2	9.0	8.9	9.0	9.1	9.3	9.0	9.0	9.2	9.6	9.3
		15	10.2	10.3	10.2	10.1	9.9	9.7	10.0	10.0	10.0	9.5	9.7	9.8	9.8	10.0
		16	10.0	10.1	10.1	10.0	9.6	9.3	9.4	9.7	9.7	9.5	9.2	9.7	9.6	9.6
		Mean	9.6	9.6	9.7	9.7	9.4	9.2	9.5	9.6	9.7	9.4	9.4	9.7	9.7	9.7
II	10	21	8.0	7.8	7.9	8.0	8.2	7.9	8.1	8.0	8.1	8.1	7.8	8.2	8.4	8.4
		22	9.2	9.1	9.3	9.3	9.1	9.1	9.5	9.5	9.7	9.8	9.5	9.7	9.9	9.8
		23	10.3	9.8	10.1	9.9	9.5	9.7	9.9	10.2	10.2	10.4	10.3	10.4	10.4	10.3
		24	10.3	9.8	9.9	10.0	10.1	10.1	10.3	10.7	10.8	11.0	10.5	10.6	10.6	11.4
		Mean	9.4	9.1	9.3	9.3	9.2	9.2	9.4	9.6	9.7	9.8	9.5	9.7	9.8	10.0
III	100	29	9.4	9.7	9.9	9.9	9.8	9.3	9.6	9.9	10.1	9.9	10.0	10.2	10.5	10.5
		30	9.1	9.2	9.4	9.5	9.5	9.2	9.5	9.4	9.3	9.4	8.9	8.9	8.7	9.1
		31	10.2	10.3	10.5	10.6	10.6	10.1	10.2	10.0	10.0	9.8	9.7	10.1	10.2	9.9
		32	11.0	10.8	10.9	11.2	11.0	11.0	11.2	11.0	11.0	10.9	10.9	11.0	11.2	11.1
		Mean	9.9	10.0	10.2	10.3	10.2	9.9	10.1	10.1	10.1	10.0	9.9	10.0	10.2	10.2

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TOXSTUDIES1297

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			55	56	57	58	59	60	61	62	63	64	65	66	67	68
UC	None	5	8.6	9.1	8.9	8.8	8.7	8.5	8.8	8.5	8.9	8.7	8.7	8.6	8.8	8.9
		6	9.5	9.5	9.4	9.6	9.6	9.7	9.7	9.6	9.8	9.8	9.8	9.9	10.1	10.1
		7	8.9	9.3	9.6	9.4	9.7	9.9	9.9	9.8	9.7	10.0	9.9	10.0	9.9	9.6
		8	11.7	11.9	11.9	11.9	12.1	12.1	12.3	11.9	11.8	11.5	11.4	11.2	11.9	11.9
		Mean	9.7	10.0	10.0	9.9	10.0	10.0	10.2	10.0	10.0	10.0	10.0	9.9	10.2	10.1
I	1	13	9.7	10.0	10.2	9.9	10.0	9.8	9.7	9.7	9.5	9.4	9.4	9.2	9.5	9.7
		14	9.4	9.5	9.8	10.0	9.5	9.4	9.3	9.1	8.9	9.2	9.0	8.9	8.9	9.2
		15	9.9	9.8	9.7	9.8	9.8	9.8	9.9	10.0	10.1	10.4	10.1	10.2	10.5	10.5
		16	9.5	9.6	9.5	9.5	9.8	9.7	9.5	9.7	9.8	9.9	9.7	9.7	9.9	9.9
		Mean	9.6	9.7	9.8	9.8	9.8	9.7	9.6	9.6	9.6	9.7	9.6	9.5	9.7	9.8
II	10	21	8.0	8.2	7.9	7.9	7.8	7.9	7.7	7.6	7.5	7.6	7.6	7.6	7.6	7.6
		22	9.8	9.8	9.9	10.0	9.7	9.8	10.0	9.9	9.9	9.9	9.8	10.3	10.4	10.1
		23	10.3	10.3	10.5	10.4	10.3	10.4	10.5	10.4	10.7	10.7	10.7	10.9	10.8	10.4
		24	11.3	11.2	10.9	11.1	11.0	10.7	10.9	10.5	10.7	10.7	10.5	10.7	10.6	10.7
		Mean	9.8	9.9	9.8	9.8	9.7	9.7	9.8	9.6	9.7	9.7	9.6	9.9	9.8	9.7
III	100	29	10.1	10.0	10.3	10.3	10.5	10.5	10.2	10.5	10.4	10.2	10.3	10.5	10.3	10.4
		30*	9.3	9.8	8.5	8.2	7.9	6.2	-	-	-	-	-	-	-	-
		31	9.3	9.6	9.7	10.0	9.9	9.9	9.9	9.6	9.8	10.0	9.8	10.3	10.2	10.1
		32	10.2	10.3	10.7	11.0	11.2	11.1	11.2	11.2	11.2	11.2	11.1	11.2	11.1	11.1
		Mean	9.7	9.9	9.8	9.9	9.9	9.4	10.4	10.4	10.5	10.5	10.4	10.6	10.5	10.5

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TOXSTUDIES1298

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated													
			69	70	71	72	73	74	75	76	77	78	79	80	81	82
UC	None	5	8.6	8.8	8.9	9.0	9.2	9.1	9.1	9.0	9.0	9.2	9.3	9.2	8.9	9.4
		6	10.3	10.4	10.3	10.3	10.5	10.7	10.4	10.3	10.3	10.5	10.6	10.0	10.2	10.0
		7	9.6	9.7	9.5	9.4	9.5	9.4	9.5	9.4	9.2	9.4	9.3	9.0	9.2	9.4
		8	11.8	12.1	12.0	11.6	12.2	11.9	12.0	12.1	12.3	11.1	12.2	11.9	12.2	12.2
		Mean	10.1	10.2	10.2	10.1	10.4	10.3	10.2	10.2	10.2	10.3	10.4	10.0	10.1	10.2
I	1	13	9.6	9.7	9.4	9.6	9.7	9.5	9.7	9.6	9.7	9.7	10.1	9.7	10.0	10.0
		14	9.3	9.3	9.3	9.2	9.2	8.9	8.8	8.9	9.2	8.9	9.0	9.0	9.0	9.2
		15	10.6	10.6	10.5	10.5	10.2	10.2	10.2	10.2	10.1	10.2	10.3	9.9	10.2	10.1
		16	9.9	9.9	10.0	9.9	10.8	10.3	10.1	10.1	10.1	10.2	10.2	10.0	10.2	10.2
		Mean	9.8	9.9	9.8	9.8	10.0	9.7	9.7	9.7	9.8	9.8	9.9	9.6	9.8	9.9
II	10	21	7.7	7.8	7.7	7.6	7.6	7.7	7.7	7.8	7.6	7.9	7.9	7.5	7.7	7.6
		22	10.3	10.3	10.5	10.7	10.6	10.5	10.1	10.2	10.1	10.3	10.1	10.0	10.0	10.2
		23	10.5	10.7	10.9	10.5	11.0	10.9	10.8	10.7	10.5	10.5	10.4	10.2	10.4	10.8
		24	11.0	10.9	10.9	11.2	10.9	10.7	10.5	10.6	10.9	10.9	11.2	10.5	10.5	10.5
		Mean	9.9	9.9	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.9	9.9	9.6	9.6	9.8
III	100	29	11.1	11.1	11.3	11.3	11.2	11.0	11.0	11.1	11.0	10.6	10.6	10.2	10.4	10.6
		30*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		31	10.2	10.5	10.6	10.4	10.1	9.7	9.6	9.7	9.7	9.4	9.8	9.5	9.7	10.0
		32	11.2	11.4	11.2	11.3	11.2	11.2	11.0	11.0	11.0	10.7	10.7	10.6	10.9	11.0
		Mean	10.8	11.0	11.0	11.0	10.8	10.6	10.5	10.6	10.6	10.2	10.4	10.1	10.3	10.5

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TOXSTUDIES1299

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 83	84	85	86	87	88	89	90	91	92	93	94	95	96
UC	None	5	9.1	9.4	9.9	10.0	9.8	9.7	9.7	9.6	9.9	9.5	9.5	9.2	9.2	9.2
		6	10.0	10.3	9.6	10.1	10.1	10.1	10.5	10.5	11.0	10.1	10.5	10.5	10.5	10.4
		7	9.5	9.9	10.0	10.0	10.0	9.9	10.1	10.2	10.0	10.0	9.9	9.7	10.0	9.9
		8	12.2	12.6	12.5	12.8	12.5	12.3	12.7	12.9	13.0	12.5	11.7	12.4	12.4	12.2
		Mean	10.2	10.6	10.5	10.7	10.6	10.5	10.8	10.8	11.0	10.5	10.4	10.4	10.5	10.4
I	1	13	10.0	10.0	10.0	9.9	10.0	10.1	10.1	10.0	10.1	9.6	10.0	10.0	10.0	9.8
		14	9.4	10.0	9.5	9.7	9.7	9.8	9.8	9.9	10.5	9.5	9.7	9.5	9.5	9.3
		15	10.2	10.3	10.1	10.2	10.2	10.2	10.2	10.3	10.6	10.0	10.2	10.5	10.9	10.8
		16	10.2	10.0	9.9	10.0	10.0	10.0	9.9	10.0	10.1	10.0	10.5	10.0	10.0	10.2
		Mean	10.0	10.1	9.9	10.0	10.0	10.0	10.0	10.0	10.3	9.8	10.1	10.0	10.1	10.0
II	10	21	7.9	7.9	7.8	8.0	7.8	7.6	7.6	7.5	7.8	7.5	7.5	7.8	7.6	7.5
		22	10.0	10.2	10.4	10.4	10.4	10.5	10.5	10.8	10.6	10.5	10.5	10.8	10.6	10.7
		23	10.0	10.1	10.2	10.2	10.5	10.7	11.1	11.2	11.2	11.0	11.0	11.0	11.2	11.1
		24	10.9	11.0	10.8	10.9	10.7	10.5	10.8	11.0	11.2	11.0	10.8	11.0	10.8	10.7
		Mean	9.7	9.8	9.8	9.9	9.8	9.8	10.0	10.1	10.2	10.0	10.0	10.2	10.0	10.0
III	100	29	10.2	10.6	9.1	9.4	9.7	10.0	10.1	10.2	10.2	9.8	9.9	10.0	10.0	10.0
		30*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		31	10.0	10.1	10.0	9.9	9.8	9.6	9.7	9.8	10.2	9.5	9.7	9.9	10.0	10.7
		32	11.0	11.2	11.1	11.2	10.9	10.5	10.5	10.1	11.0	10.6	10.7	10.8	11.0	11.5
		Mean	10.5	10.6	10.1	10.2	10.1	10.0	10.1	10.0	10.5	10.0	10.1	10.2	10.3	10.7

TOXSTUDIES1300

TABLE III continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Body Weight Data for Females, kilograms

Group	Dietary Level (ppm)	Dog Number	Body Weights at Week Indicated 97	98	99	100	101	102	103	104	Overall Weight Gain
UC	None	5	9.0	8.9	9.2	9.3	9.0	9.3	9.1	9.2	2.8
		6	10.3	10.5	10.3	10.3	10.4	10.6	10.4	10.6	3.5
		7	9.5	9.7	9.3	9.5	9.2	9.6	9.4	9.5	3.0
		8	12.4	12.5	12.5	12.6	12.5	12.4	12.4	12.6	5.4
		Mean	10.3	10.4	10.3	10.4	10.3	10.5	10.3	10.5	3.7
I	1	13	9.9	10.0	9.8	10.0	9.7	9.9	10.0	9.8	3.6
		14	9.5	9.5	9.2	9.3	9.2	9.3	9.4	9.3	3.0
		15	10.6	11.0	10.3	11.0	10.6	10.7	10.4	10.8	4.7
		16	9.9	9.9	9.8	9.7	9.5	9.8	10.0	10.1	3.7
		Mean	10.0	10.1	9.8	10.0	9.8	9.9	10.0	10.0	3.8
II	10	21	7.4	7.2	7.3	7.3	7.5	7.7	7.6	7.8	1.6
		22	10.7	10.5	10.5	10.8	10.5	10.7	10.8	10.7	3.3
		23	10.5	11.8	10.4	10.6	10.3	10.4	10.5	10.8	4.3
		24	10.5	10.9	10.9	10.9	10.8	10.9	11.0	10.9	4.7
		Mean	9.8	10.1	9.8	9.9	9.8	9.9	10.0	10.0	3.4
III	100	29	10.2	10.3	10.2	10.0	9.2	10.1	10.0	10.1	2.4
		30*	-	-	-	-	-	-	-	-	(1.8)
		31	10.6	10.5	10.5	10.0	10.0	10.4	10.3	10.5	3.7
		32	11.3	11.5	11.5	10.9	11.1	11.3	11.2	11.4	5.2
		Mean	10.7	10.8	10.7	10.3	10.1	10.6	10.5	10.6	3.7

Note: Overall weight gain for animal that was sacrificed in extremis is in parentheses and is not included in the calculation of the mean.

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TOXSTUDIES1301

B. Food Consumption Data

Food consumption data are presented in Table IV. No abnormalities related to test material ingestion were noted at any of the levels tested.

TOXSTUDIES1302

TABLE IV

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Food Consumption Data

	Mean Food Consumed During Week Indicated (gm/kg of body weight)							
Sex:	Males				Females			
Group:	UC	I	II	III	UC	I	II	III
Week Dietary Level (ppm):	None	1	10	100	None	1	10	100
1	268	211	152	254	282	281	198	215
2	290	260	242	254	277	301	262	236
3	287	290	279	250	290	307	302	267
4	305	269	235	284	276	297	257	256
5	285	234	257	260	279	283	236	218
6	323	344	252	330	348	325	354	348
7	201	244	208	173	180	202	220	202
8	280	274	266	253	274	285	293	301
9	244	272	227	263	300	254	248	251
10	253	298	268	235	262	259	300	267
11	244	319	259	264	209	250	283	270
12	261	316	235	247	265	265	292	253
13	267	268	225	209	238	250	244	250
14	296	260	197	269	235	241	253	258
15	253	297	161	222	276	262	268	256
16	287	297	184	274	304	267	270	261
17	253	267	125	234	250	236	253	233
18	286	314	189	268	306	289	284	253
19	278	309	266	250	293	286	309	290
20	237	236	262	252	269	256	275	280
21	242	273	263	252	282	283	261	282
22	234	275	167	224	264	256	227	253
23	282	290	261	260	279	277	278	281
24	250	217	180	214	255	250	253	226
25	235	210	216	265	253	269	269	239
26	245	265	250	248	372	258	236	234
27	245	261	248	252	316	242	244	253

TOXSTUDIES1303

TABLE IV continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Food Consumption Data

	Mean Food Consumed During Week Indicated (gm/kg of body weight)							
Sex:	Males				Females			
Group:	UC	I	II	III	UC	I	II	III
Week Dietary Level (ppm):	None	1	10	100	None	1	10	100
28	300	287	270	272	292	280	264	279
29	262	254	270	270	266	242	267	240
30	252	254	276	262	281	261	256	261
31	260	250	223	245	281	280	264	282
32	332	261	279	286	368	301	324	319
33	214	317	302	294	239	276	318	310
34	254	241	268	267	308	302	291	304
35	282	280	275	260	286	279	290	283
36	260	256	223	233	237	224	250	252
37	252	250	224	236	271	234	253	224
38	248	252	246	231	261	239	264	260
39	255	256	266	214	258	276	253	270
40	216	241	203	216	281	245	168	240
41	267	278	193	270	287	263	266	270
42	267	290	246	264	258	260	222	260
43	255	293	254	257	270	260	266	270
44	238	279	248	236	255	237	255	272
45	292	307	252	264	271	245	280	299
46	243	260	229	236	263	228	247	260
47	238	263	248	226	252	213	253	257
48	250	264	250	233	260	234	260	250
49	231	250	233	199	228	206	234	233
50	235	250	219	201	191	197	232	220
51	226	254	238	229	245	250	239	240
52	212	274	240	224	225	273	237	250
53	250	278	242	207	235	240	260	243
54	233	222	246	211	232	245	228	220

TOXSTUDIES1304

TABLE IV continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Food Consumption Data

		Mean Food Consumed During Week Indicated (gm/kg of body weight)							
	Sex:	Males				Females			
	Group:	UC	I	II	III	UC	I	II	III
Week	Dietary Level (ppm):	None	1	10	100	None	1	10	100
55		168	225	198	179	209	198	181	173
56		224	224	211	180	232	240	182	215
57		238	278	252	210	228	237	199	245
58		208	197	189	186	217	209	181	230
59		233	216	217	212	220	202	193	227
60		205	216	218	189	222	175	193	205
61		215	241	207	211	211	185	209	202
62		178	254	189	174	188	167	182	199
63		193	271	216	215	208	182	204	215
64		212	256	202	198	225	209	211	210
65		186	277	186	187	212	172	193	205
66		208	250	196	220	212	176	207	201
67		222	258	200	190	220	198	207	203
68		217	233	196	211	213	235	201	219
69		215	250	197	190	208	219	202	238
70		231	238	210	200	218	217	225	233
71		206	234	197	202	198	204	220	230
72		204	201	194	186	220	194	202	221
73		210	248	223	216	226	195	220	207
74		229	250	204	204	216	183	182	195
75		224	246	208	202	208	204	168	105
76		222	238	223	225	211	209	224	208
77		229	266	233	225	233	212	217	233
78		204	280	250	227	250	237	242	193
79		219	212	231	225	243	225	245	247

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TOXSTUDIES1305

TABLE IV continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Food Consumption Data

		Mean Food Consumed During Week Indicated (gm/kg of body weight)							
	Sex:	Males				Females			
	Group:	UC	I	II	III	UC	I	II	III
Week	Dietary Level (ppm):	None	1	10	100	None	1	10	100
80		240	236	233	233	222	226	224	267
81		262	289	248	245	235	240	253	272
82		277	270	206	216	235	247	263	267
83		274	302	284	241	233	265	232	260
84		265	250	243	211	233	262	222	239
85		286	296	265	230	257	227	260	267
86		300	280	278	248	243	248	260	284
87		262	244	208	213	262	215	227	224
88		250	224	225	234	226	248	227	253
89		231	167	175	227	248	200	235	224
90		264	256	280	243	243	218	233	280
91		261	224	220	219	204	216	220	222
92		191	210	179	221	171	176	208	173
93		224	232	202	209	161	196	190	224
94		259	204	234	219	195	230	225	252
95		229	266	200	205	200	218	225	252
96		211	262	214	228	183	225	192	271
97		222	252	222	206	214	225	191	277
98		224	246	183	200	209	215	196	241
99		224	252	258	250	218	217	237	218
100		243	220	220	209	219	208	250	165
101		221	250	212	207	209	196	189	234
102		236	248	208	231	213	199	198	279
103		228	261	201	209	217	224	196	231
104		241	243	214	221	191	219	221	226
Mean		246	260	228	233	246	332	241	246

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TOXSTUDIES1306

C. Reactions

No abnormal behavioral reactions were noted at any of the levels tested.

D. Mortality

A female (No. 30) receiving 100 ppm Aroclor 1242 was sacrificed in extremis after 60 weeks of testing. Gross and histologic examination revealed severe chronic peritonitis in this animal.

A male (No. 17) receiving 10 ppm died after 82 weeks of testing. The cause of death was attributed to chronic pneumonia. Histologic examination revealed no abnormalities related to test material ingestion.

No other fatalities occurred during the study.

E. Hematologic Studies

The results of these determinations are presented in Tables V through IX. Dashes in the tables indicate animals that died during the study.

No significant abnormalities were noted at any of the levels tested.

TOXSTUDIES1307

TABLE V

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Total Leukocyte Count, thousands/mm^3

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	14.7	13.6	12.7	12.9	15.5	9.2	10.4
		2-M	18.3	19.7	19.4	19.1	19.0	16.3	14.0
		3-M	9.4	15.6	11.0	10.5	11.6	13.2	9.1
		4-M	18.8	21.2	15.5	13.6	15.2	12.4	11.9
		5-F	15.4	13.7	27.6	22.0	11.5	9.5	10.6
		6-F	11.6	16.5	14.1	18.7	16.6	14.6	12.4
		7-F	21.7	18.1	10.3	17.7	15.5	11.4	10.6
		8-F	12.0	14.7	10.8	19.7	16.0	10.8	12.6
I	1	9-M	13.1	12.3	11.1	10.4	15.2	10.2	10.0
		10-M	13.4	13.9	10.1	12.4	13.3	10.7	11.4
		11-M	15.4	22.9	14.9	12.3	15.9	14.4	14.2
		12-M	16.7	14.8	15.6	14.0	18.2	15.9	15.5
		13-F	17.0	20.5	16.8	16.0	13.6	13.8	10.5
		14-F	21.2	17.3	16.1	18.6	15.3	17.1	9.1
		15-F	25.5	20.0	21.6	18.6	17.9	15.2	18.3
		16-F	12.0	13.5	10.3	10.6	11.7	9.0	10.5
II	10	17-M	10.5	14.7	25.1	15.4	16.1	33.9	-
		18-M	12.7	11.5	14.5	13.8	19.8	14.3	12.1
		19-M	8.6	13.2	12.5	14.3	16.3	14.1	12.7
		20-M	16.2	13.9	16.5	14.1	19.5	15.6	14.0
		21-F	12.1	13.4	9.0	8.9	11.6	9.9	9.2
		22-F	15.5	16.1	15.9	14.3	16.8	15.4	13.0
		23-F	11.3	17.0	14.5	13.1	15.7	13.6	20.1
		24-F	24.6	13.5	12.7	12.8	13.4	12.3	13.1
III	100	25-M	14.8	21.2	19.5	16.8	20.2	19.9	17.6
		26-M	11.8	21.9	16.3	12.7	16.4	16.9	14.7
		27-M	11.4	30.1	18.8	20.0	19.2	18.3	17.7
		28-M	13.0	34.1	19.1	22.2	25.8	24.3	25.5
		29-F	12.7	16.0	25.3	19.0	25.8	17.2	23.7
		30-F	17.9	21.2	28.2	21.1	27.2	-	-
		31-F	17.8	17.2	17.9	18.8	21.6	17.2	18.9
		32-F	16.3	26.9	20.7	16.5	22.7	21.6	21.4

TOXSTUDIES1308

TABLE VI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Erythrocyte Count, millions/mm^3

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	6.09	6.73	6.80	6.35	7.92	7.21	6.78
		2-M	5.69	5.76	6.40	6.45	8.37	6.69	7.10
		3-M	5.96	6.14	5.76	6.95	8.13	6.68	7.22
		4-M	5.83	5.48	5.32	6.11	7.44	7.13	7.16
		5-F	5.23	6.05	5.50	7.23	8.36	6.84	6.58
		6-F	5.41	5.89	6.04	6.63	7.42	6.27	6.71
		7-F	5.48	5.95	6.08	6.93	7.61	7.08	6.75
		8-F	5.43	5.86	6.35	6.67	7.33	7.12	6.72
I	1	9-M	6.09	5.89	5.94	6.51	7.85	6.71	6.64
		10-M	6.23	6.10	5.88	6.88	8.26	6.95	7.25
		11-M	6.05	5.78	5.24	5.53	7.64	6.61	6.79
		12-M	6.20	5.45	5.80	6.03	7.66	6.68	6.68
		13-F	5.00	5.63	5.56	5.46	6.93	6.70	6.64
		14-F	6.11	6.66	6.95	7.50	8.28	8.14	8.11
		15-F	5.96	6.03	6.20	6.85	7.90	7.10	7.43
		16-F	5.64	6.21	6.44	6.88	8.44	7.07	7.73
II	10	17-M	6.23	5.80	6.00	6.80	7.76	6.12	-
		18-M	6.26	6.63	6.15	6.73	7.73	6.75	6.99
		19-M	6.30	6.85	6.67	6.28	7.08	6.83	7.01
		20-M	5.93	6.04	5.51	6.29	6.69	6.58	6.92
		21-F	6.04	6.67	6.16	6.72	7.88	6.65	7.10
		22-F	5.17	6.03	5.68	5.90	7.07	5.86	6.20
		23-F	6.00	5.83	5.96	6.36	7.35	6 54	6.85
		24-F	6.03	6.10	5.76	6.80	8.08	7.16	7.59
III	100	25-M	5.75	5.66	5.31	6.20	6.62	6.58	6.52
		26-M	5.76	5.94	5.70	6.18	6.52	6.66	6.76
		27-M	5.28	5.78	6.01	5.88	6.91	6.62	6.63
		28-M	5.75	5.68	5.75	6.16	7.00	6.72	6.80
		29-F	5.84	5.68	5.83	6.04	6.65	5.85	4.87
		30-F	5.48	6.30	5.31	5.69	6.08	-	-
		31-F	6.04	6.56	6.50	6.73	7.29	6.69	6.11
		32-F	5.68	5.46	5.74	5.93	6.53	6.13	5.90

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TOXSTUDIES1309

TABLE VII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Hemoglobin, gm/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	15.8	16.7	17.5	16.2	17.6	17.6	16.4
		2-M	13.2	13.0	14.6	13.8	15.8	15.2	15.7
		3-M	14.4	12.9	14.3	16.2	16.6	15.3	16.1
		4-M	14.3	12.9	13.0	14.9	16.4	17.2	16.9
		5-F	14.8	15.8	13.6	17.7	17.3	16.8	16.3
		6-F	14.4	14.2	14.7	15.9	15.1	15.5	15.7
		7-F	13.8	13.5	14.8	15.9	15.3	16.5	15.7
		8-F	13.8	14.1	14.6	15.9	14.9	16.6	15.8
I	1	9-M	15.8	14.1	15.2	15.5	15.8	15.8	15.1
		10-M	15.8	14.3	14.6	16.8	16.6	17.1	16.9
		11-M	14.1	13.7	13.9	14.5	15.6	15.8	16.5
		12-M	15.6	13.2	14.2	14.7	15.8	16.0	15.8
		13-F	12.8	14.5	14.0	14.0	14.8	15.9	16.0
		14-F	15.0	15.4	17.9	18.2	17.5	18.8	18.7
		15-F	14.2	13.9	15.1	16.2	16.7	17.0	17.4
		16-F	14.0	15.6	16.4	17.3	18.5	16.9	17.8
II	10	17-M	15.1	14.4	14.0	15.8	14.7	14.1	-
		18-M	16.0	15.6	15.0	16.3	15.5	15.9	16.1
		19-M	15.9	16.5	16.0	15.5	15.3	16.5	16.8
		20-M	14.0	14.2	13.8	15.8	14.3	15.9	16.5
		21-F	15.6	16.0	16.0	17.0	16.8	16.3	16.6
		22-F	13.6	15.9	14.6	15.0	14.8	15.5	15.3
		23-F	15.2	13.8	15.0	16.6	15.5	16.3	16.3
		24-F	15.6	15.2	14.4	16.8	16.7	17.2	17.5
III	100	25-M	15.0	13.2	13.6	14.3	14.0	16.0	15.6
		26-M	15.8	14.0	15.2	16.0	14.1	16.4	16.4
		27-M	13.4	13.0	14.4	15.4	14.8	16.3	16.1
		28-M	14.4	13.6	15.0	14.9	14.8	16.5	16.3
		29-F	14.8	15.1	15.0	15.7	14.4	15.0	11.6
		30-F	13.8	15.4	13.0	14.3	13.3	-	-
		31-F	15.2	15.9	16.7	17.4	15.8	18.8	15.0
		32-F	14.4	13.0	14.4	15.1	14.2	15.2	14.4

TOXSTUDIES1310

TABLE VIII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Hematocrit, percent

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	47	48	50	47	56	50	47
		2-M	39	39	44	42	56	44	46
		3-M	41	39	42	46	54	43	46
		4-M	43	38	38	44	51	48	48
		5-F	43	45	40	52	56	48	47
		6-F	43	43	42	49	52	43	46
		7-F	41	40	42	47	52	47	46
		8-F	41	40	41	47	50	48	46
I	1	9-M	44	41	42	46	53	44	43
		10-M	46	42	42	50	56	47	48
		11-M	43	41	40	42	54	46	47
		12-M	43	38	41	43	54	45	45
		13-F	38	40	40	40	49	46	46
		14-F	45	46	50	54	56	54	54
		15-F	43	41	43	48	56	49	51
		16-F	43	45	47	50	60	48	53
II	10	17-M	45	43	42	46	52	40	-
		18-M	44	44	43	47	53	46	46
		19-M	45	48	46	46	50	47	48
		20-M	42	42	39	45	46	45	46
		21-F	44	46	45	49	55	46	49
		22-F	40	41	42	44	52	42	44
		23-F	44	40	44	49	52	46	48
		24-F	45	43	41	48	56	49	51
III	100	25-M	42	38	39	41	46	45	45
		26-M	41	41	43	45	46	47	47
		27-M	39	39	42	44	49	46	46
		28-M	42	39	44	43	49	47	47
		29-F	44	43	43	46	48	41	34
		30-F	42	43	48	41	44	-	-
		31-F	46	46	47	50	52	47	42
		32-F	44	39	41	44	48	44	42

TOXSTUDIES1311

TABLE IX

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Differential Leukocyte Count, percent - Neutrophils

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	68	55	55	57	64	56	67
		2-M	62	65	65	58	59	67	58
		3-M	53	59	51	49	48	72	56
		4-M	74	65	65	62	59	68	64
		5-F	64	43	81	72	44	49	53
		6-F	44	55	57	68	75	58	52
		7-F	85	51	56	73	58	58	61
		8-F	56	46	54	70	65	68	63
I	1	9-M	60	58	56	47	64	61	62
		10-M	53	59	42	58	57	54	64
		11-M	40	68	52	67	54	73	49
		12-M	49	44	55	57	63	60	67
		13-F	70	47	53	70	60	68	54
		14-F	50	51	44	71	67	75	48
		15-F	61	31	46	65	47	44	59
		16-F	33	40	49	58	52	55	49
II	10	17-M	74	62	81	78	70	85	-
		18-M	64	49	58	57	66	63	67
		19-M	60	55	65	65	72	67	74
		20-M	57	47	53	62	74	60	58
		21-F	70	50	53	62	58	60	60
		22-F	64	45	59	47	53	67	55
		23-F	51	57	64	66	48	65	66
		24-F	74	51	58	69	52	59	47
III	100	25-M	67	50	55	60	52	66	48
		26-M	60	69	69	65	66	64	54
		27-M	48	69	53	46	65	60	59
		28-M	65	76	74	68	62	60	56
		29-F	63	59	66	71	73	60	71
		30-F	56	55	69	58	53	-	-
		31-F	43	47	41	67	63	56	64
		32-F	50	61	50	66	63	63	64

TOXSTUDIES1312

TABLE IX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Differential Leukocyte Count, percent - Lymphocytes

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	28	38	43	36	28	35	27
		2-M	33	27	28	29	32	31	36
		3-M	43	37	40	42	46	24	34
		4-M	22	26	31	29	31	29	28
		5-F	25	52	19	23	52	43	39
		6-F	49	36	37	26	24	40	37
		7-F	13	40	41	22	40	35	35
		8-F	34	43	39	23	25	28	31
I	1	9-M	34	33	41	42	25	31	33
		10-M	44	36	51	36	33	40	26
		11-M	55	26	42	31	42	23	39
		12-M	38	43	41	33	29	34	27
		13-F	26	50	39	25	34	28	37
		14-F	36	34	43	23	29	22	35
		15-F	35	68	49	33	49	41	31
		16-F	65	53	51	28	40	39	42
II	10	17-M	22	31	14	19	26	14	-
		18-M	30	45	33	32	24	29	23
		19-M	36	32	29	25	16	27	22
		20-M	34	49	41	36	24	29	39
		21-F	29	40	44	25	35	35	37
		22-F	25	53	34	39	40	26	36
		23-F	34	34	32	20	38	28	23
		24-F	22	45	36	25	42	37	32
III	100	25-M	28	41	35	30	38	31	37
		26-M	36	23	26	23	26	31	35
		27-M	47	28	43	41	27	31	33
		28-M	30	19	19	19	29	27	27
		29-F	32	38	26	23	21	36	27
		30-F	33	36	31	34	37	-	-
		31-F	49	46	55	27	29	36	28
		32-F	43	36	43	30	34	30	27

TOXSTUDIES1313

TABLE IX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Differential Leukocyte Count, percent - Monocytes

Group	Dietary Level (ppm)	Dog Number and Sex	Months 0	1	3	6	12	18	24
UC	None	1-M	1	2	1	2	2	2	0
		2-M	2	4	2	1	6	0	1
		3-M	0	1	0	3	3	1	2
		4-M	2	2	0	2	2	0	2
		5-F	3	0	0	0	2	1	2
		6-F	2	2	1	2	0	0	1
		7-F	0	2	1	1	0	2	0
		8-F	4	7	0	2	1	0	2
I	1	9-M	1	1	0	2	2	2	1
		10-M	2	1	5	3	4	0	2
		11-M	4	3	0	1	0	0	3
		12-M	4	3	3	2	5	0	3
		13-F	0	2	0	1	1	1	1
		14-F	8	6	4	2	1	0	3
		15-F	4	1	1	0	0	1	2
		16-F	2	5	0	3	1	0	3
II	10	17-M	1	1	2	0	2	1	-
		18-M	5	1	0	3	5	1	1
		19-M	0	4	1	2	5	2	4
		20-M	3	1	2	0	2	0	0
		21-F	1	0	0	3	1	2	3
		22-F	5	0	0	1	0	0	0
		23-F	6	0	0	3	0	2	4
		24-F	2	1	4	1	2	0	1
III	100	25-M	4	0	2	3	4	1	3
		26-M	2	4	3	5	3	1	2
		27-M	0	1	0	6	2	0	1
		28-M	2	1	1	5	0	0	0
		29-F	0	0	0	4	1	0	1
		30-F	3	0	0	3	1	-	-
		31-F	5	0	1	2	3	0	2
		32-F	4	1	1	1	0	0	2

TOXSTUDIES1314

TABLE IX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Differential Leukocyte Count, percent - Eosinophils

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	1	5	1	5	5	7	6
		2-M	2	4	5	2	2	2	5
		3-M	5	3	9	6	2	3	6
		4-M	3	6	3	7	8	3	4
		5-F	4	5	0	5	2	7	6
		6-F	8	7	4	4	1	2	10
		7-F	3	7	2	4	2	5	4
		8-F	3	4	7	5	9	4	4
I	1	9-M	6	8	3	9	9	6	4
		10-M	4	4	2	3	5	6	6
		11-M	5	6	6	1	4	4	7
		12-M	12	10	1	6	3	6	3
		13-F	7	1	7	4	5	3	8
		14-F	6	9	9	4	3	3	14
		15-F	4	0	4	2	4	14	6
		16-F	8	2	0	10	5	6	6
II	10	17-M	8	6	3	3	2	0	-
		18-M	5	5	9	8	5	6	8
		19-M	7	9	5	8	5	4	0
		20-M	13	3	4	2	0	11	3
		21-F	8	10	3	8	6	3	0
		22-F	6	2	7	10	6	7	5
		23-F	3	9	4	11	13	4	4
		24-F	6	3	2	5	4	4	16
III	100	25-M	5	9	6	6	6	2	8
		26-M	0	4	1	7	5	4	8
		27-M	3	2	4	7	4	9	7
		28-M	5	4	5	8	8	12	16
		29-F	4	3	8	2	5	4	1
		30-F	11	9	0	5	7	-	-
		31-F	6	7	3	3	5	7	6
		32-F	2	2	6	3	3	6	7

TOXSTUDIES1315

TABLE IX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Hematologic Studies: Differential Leukocyte Count, percent - Basophils

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	0	0	0	0	1	0	0
		2-M	0	0	0	0	1	0	0
		3-M	0	0	0	0	1	0	2
		4-M	0	1	1	0	0	0	2
		5-F	0	0	0	0	0	0	0
		6-F	0	0	1	0	0	0	0
		7-F	0	0	0	0	0	0	0
		8-F	0	0	0	0	0	0	0
I	1	9-M	0	0	0	0	0	0	0
		10-M	0	0	0	0	1	0	2
		11-M	0	0	0	0	0	0	2
		12-M	0	0	0	2	0	0	0
		13-F	0	0	1	0	0	0	0
		14-F	0	0	0	0	0	0	0
		15-F	0	0	0	0	0	0	2
		16-F	0	0	0	1	2	0	0
II	10	17-M	0	0	0	0	0	0	-
		18-M	0	0	0	0	0	1	1
		19-M	0	0	0	0	2	0	0
		20-M	0	0	0	0	0	0	0
		21-F	0	0	0	2	0	0	0
		22-F	0	0	0	3	1	0	4
		23-F	0	0	0	0	1	1	3
		24-F	0	0	0	0	0	0	4
III	100	25-M	0	0	2	1	0	0	4
		26-M	0	0	1	0	0	0	1
		27-M	0	0	0	0	2	0	0
		28-M	0	0	1	0	1	1	1
		29-F	1	0	0	0	0	0	0
		30-F	0	0	0	0	2	-	-
		31-F	0	0	0	1	0	1	0
		32-F	0	0	0	0	0	1	0

TOXSTUDIES1316

F. Blood Chemistry Studies

The results of these determinations are presented in Tables X through XIV. Dashes in the tables indicate animals that died during the study. No significant abnormalities were noted at any of the levels tested.

TOXSTUDIES1317

TABLE X

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Blood Chemistry Studies: Blood Urea Nitrogen, mg/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	11	15	16	8	14	11	10
		2-M	9	14	12	10	16	10	9
		3-M	8	10	12	14	11	9	8
		4-M	10	10	12	9	14	9	11
		5-F	11	14	10	24	13	9	10
		6-F	11	13	15	25	14	16	13
		7-F	11	21	16	20	17	17	14
		8-F	13	16	15	18	15	13	13
I	1	9-M	7	12	14	11	10	10	10
		10-M	11	15	15	19	14	9	10
		11-M	11	15	18	18	16	10	14
		12-M	13	12	14	13	14	10	11
		13-F	12	13	14	15	17	11	10
		14-F	16	23	20	22	18	18	17
		15-F	17	19	19	19	16	16	17
		16-F	11	11	13	12	11	13	9
II	10	17-M	16	16	13	18	14	10	-
		18-M	12	14	17	14	12	9	11
		19-M	7	11	17	11	12	11	12
		20-M	10	13	17	12	18	13	13
		21-F	11	17	13	14	15	10	13
		22-F	12	14	16	14	14	9	10
		23-F	16	15	18	14	16	13	10
		24-F	11	10	13	13	13	11	11
III	100	25-M	10	11	13	15	11	11	12
		26-M	8	10	12	13	10	8	9
		27-M	8	10	17	17	19	12	15
		28-M	5	5	11	7	9	10	10
		29-F	10	9	11	8	12	11	17
		30-F	12	11	11	14	9	-	-
		31-F	8	10	14	12	14	11	9
		32-F	11	13	15	17	16	14	17

Note: Colorimetric method by Roeckelt and Gochman.

0366004

TOXSTUDIES1318

TABLE XI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Blood Chemistry Studies: Serum Glucose, mg/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	83	108	106	78	107	104	103
		2-M	85	101	118	103	120	106	112
		3-M	111	115	106	106	111	111	103
		4-M	84	104	100	109	90	104	98
		5-F	98	111	68	93	101	106	114
		6-F	87	104	100	85	101	98	98
		7-F	74	101	94	101	94	102	100
		8-F	97	117	106	112	97	108	109
I	1	9-M	91	104	103	97	90	98	96
		10-M	79	100	94	109	101	100	100
		11-M	95	98	103	109	120	106	107
		12-M	91	107	100	112	101	104	100
		13-F	69	82	94	112	101	106	105
		14-F	71	87	105	131	104	106	107
		15-F	87	108	102	112	97	104	100
		16-F	118	114	109	112	104	108	116
II	10	17-M	85	109	97	103	104	94	-
		18-M	85	105	100	97	94	98	100
		19-M	94	115	105	109	97	111	107
		20-M	84	101	112	103	104	102	99
		21-F	72	107	88	105	101	106	112
		22-F	97	108	97	120	111	106	107
		23-F	85	94	103	105	101	106	89
		24-F	77	115	106	109	97	108	107
III	100	25-M	94	116	103	103	107	111	109
		26-M	105	108	100	106	97	102	100
		27-M	100	110	103	97	111	100	98
		28-M	100	111	109	109	111	110	109
		29-F	107	105	100	64	97	108	91
		30-F	97	100	91	112	90	-	-
		31-F	105	105	115	116	111	108	114
		32-F	84	104	94	112	97	87	105

Note: Colorimetric method by Roeckelt and Cochman.

0366005

TOXSTUDIES1319

TABLE XII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Blood Chemistry Studies: Serum Alkaline Phosphatase, King-Armstrong Units/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	12.3	14.5	6.6	5.2	6.2	4.9	7.4
		2-M	17.9	16.1	9.2	10.3	7.7	5.6	7.4
		3-M	10.1	10.7	5.8	3.5	4.4	3.8	4.9
		4-M	9.9	11.6	5.4	4.2	4.4	2.5	3.1
		5-F	7.0	10.7	8.0	3.0	2.3	2.0	2.9
		6-F	10.5	11.0	5.4	4.9	5.2	5.6	6.2
		7-F	13.7	10.2	4.6	3.3	4.4	4.4	4.4
		8-F	9.9	12.4	6.2	3.3	4.4	4.4	5.5
I	1	9-M	9.2	12.1	6.0	5.4	4.6	4.1	4.2
		10-M	12.3	12.1	6.6	4.7	4.2	3.8	4.6
		11-M	11.8	13.5	8.2	4.4	4.4	4.4	4.2
		12-M	8.2	8.8	4.3	3.8	4.0	3.4	4.0
		13-F	8.6	9.9	4.3	4.9	3.4	3.6	4.2
		14-F	10.3	12.5	5.6	4.9	2.3	3.1	3.1
		15-F	10.9	13.3	5.0	4.5	8.2	4.8	5.5
		16-F	15.0	14.0	6.2	7.0	4.8	4.6	6.0
II	10	17-M	10.3	13.0	10.1	6.4	3.4	6.9	-
		18-M	9.5	9.4	5.6	5.4	4.2	3.3	4.2
		19-M	10.1	9.6	4.6	5.1	4.4	4.3	5.5
		20-M	9.9	9.0	5.6	3.9	5.2	3.9	4.9
		21-F	6.7	7.8	2.8	4.2	2.9	3.1	5.1
		22-F	7.0	8.4	3.7	4.6	2.9	3.3	4.6
		23-F	14.0	13.8	6.6	4.9	5.6	5.1	12.8
		24-F	9.3	10.7	5.0	5.2	2.7	2.6	4.4
III	100	25-M	9.1	9.7	4.5	3.8	4.2	4.6	6.0
		26-M	9.7	11.0	5.4	4.4	5.0	4.6	5.5
		27-M	10.9	12.3	5.6	4.7	4.2	2.9	3.3
		28-M	9.7	10.9	4.8	3.2	3.2	3.1	4.0
		29-F	9.0	10.3	6.2	4.9	7.3	4.1	9.4
		30-F	7.6	8.0	5.0	3.9	4.0	-	-
		31-F	11.2	12.1	7.2	8.1	4.4	4.1	5.3
		32-F	19.4	13.3	7.8	5.6	4.8	4.1	7.9

Note: Colorimetric method by Babson.

0366006

TOXSTUDIES1320

TABLE XIII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Blood Chemistry Studies: Serum Glutamic-Oxalacetic Transaminase, Dade Units/ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	42	31	33	23	27	27	23
		2-M	40	35	36	28	24	22	18
		3-M	31	28	27	25	23	29	18
		4-M	30	24	25	25	21	26	21
		5-F	36	29	28	21	20	25	20
		6-F	42	31	41	36	24	26	21
		7-F	33	30	39	38	26	38	23
		8-F	34	29	38	25	26	37	22
I	1	9-M	34	31	35	31	25	30	22
		10-M	41	26	33	33	24	28	20
		11-M	32	24	32	29	26	26	20
		12-M	34	30	26	32	20	25	20
		13-F	36	27	29	23	22	26	21
		14-F	34	32	43	29	28	23	19
		15-F	35	29	37	25	23	29	19
		16-F	28	30	33	26	25	32	19
II	10	17-M	32	34	27	31	33	28	-
		18-M	38	27	38	25	32	36	26
		19-M	40	27	30	29	29	34	31
		20-M	37	23	29	23	25	26	21
		21-F	40	28	25	33	24	31	18
		22-F	48	36	34	33	28	24	18
		23-F	29	27	39	21	27	38	25
		24-F	31	28	36	23	26	25	21
III	100	25-M	44	24	21	25	22	24	17
		26-M	40	29	29	23	25	28	24
		27-M	34	28	25	25	20	30	15
		28-M	31	38	24	22	23	30	18
		29-F	31	21	27	25	24	33	22
		30-F	36	24	33	23	23	-	-
		31-F	35	29	50	32	24	31	21
		32-F	29	26	46	30	23	23	15

Note: Fluorometric method by Levine and Hill.

0366007

TOXSTUDIES1321

TABLE XIV

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Blood Chemistry Studies: Serum Glutamic-Pyruvic Transaminase, Dade Units/ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	55	43	62	43	74	76	60
		2-M	47	51	50	39	51	41	42
		3-M	36	39	39	40	52	34	39
		4-M	22	22	24	28	34	18	29
		5-F	31	31	20	31	31	21	30
		6-F	38	36	39	63	41	28	36
		7-F	35	36	40	57	41	35	39
		8-F	24	28	31	43	36	23	29
I	1	9-M	24	28	29	40	45	31	39
		10-M	105	80	41	74	51	40	48
		11-M	31	37	48	41	48	34	40
		12-M	26	30	32	34	34	29	35
		13-F	19	11	28	39	27	19	25
		14-F	23	34	31	50	34	36	28
		15-F	32	38	35	54	53	38	37
		16-F	27	40	33	47	53	29	35
II	10	17-M	40	46	22	42	55	21	-
		18-M	36	40	38	35	41	27	38
		19-M	26	38	25	29	36	18	29
		20-M	30	40	37	25	34	22	37
		21-F	39	52	37	54	37	21	30
		22-F	44	49	39	52	41	35	37
		23-F	26	33	37	50	41	31	35
		24-F	22	30	22	37	35	17	28
III	100	25-M	24	22	24	17	27	18	28
		26-M	39	31	37	28	32	20	30
		27-M	43	36	36	33	43	36	35
		28-M	24	37	26	23	36	19	25
		29-F	30	30	24	23	37	26	41
		30-F	25	25	23	35	23	-	-
		31-F	30	36	46	52	37	38	29
		32-F	28	31	43	40	31	21	28

Note: Fluorometric method by Levine and Hill.

0366008

TOXSTUDIES1322

C. Urine Analyses

The results of these determinations are presented in Tables XV through XIX. Dashes in the tables indicate an animal that died during the study. No significant abnormalities were noted at any of the levels tested.

TOXSTUDIES1323

TABLE XV

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Albumin, mg/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	0	0	1-10	0	0	0	0
		2-M	0	0	1-10	1-10	0	0	0
		3-M	0	0	1-10	0	0	0	0
		4-M	0	0	1-10	0	0	0	0
		5-F	0	0	0	0	0	0	0
		6-F	0	0	1-10	0	0	0	0
		7-F	0	0	0	0	0	0	0
		8-F	0	0	0	0	0	10	0
I	1	9-M	0	0	1-10	1-10	0	0	0
		10-M	0	0	0	0	0	0	0
		11-M	0	0	0	0	0	0	0
		12-M	0	0	0	0	0	0	0
		13-F	0	0	1-10	0	0	10	0
		14-F	0	0	0	0	0	0	0
		15-F	0	0	0	0	0	0	0
		16-F	0	0	0	0	0	10	0
II	10	17-M	0	0	1-10	0	0	0	-
		18-M	0	0	0	0	0	0	11-50
		19-M	0	0	0	0	0	0	1-10
		20-M	0	0	0	0	0	0	0
		21-F	0	0	11-50	0	0	10	0
		22-F	0	0	0	0	0	0	0
		23-F	0	0	0	0	0	0	0
		24-F	0	0	0	0	0	0	0
III	100	25-M	0	0	0	11-50	1-10	0	0
		26-M	0	0	0	0	0	0	0
		27-M	0	0	0	0	0	0	0
		28-M	0	0	0	0	0	0	0
		29-F	0	0	0	0	0	0	0
		30-F	0	0	1-10	0	0	-	-
		31-F	0	0	0	0	0	10	0
		32-F	0	0	0	0	0	0	0

Note: BUMINTEST, Ames Company, Inc., Elkhart, Indiana.

TOXSTUDIES1324

TABLE XVI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Glucose, mg/100 ml

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	0	0	0	0	0	0	0
		2-M	0	0	0	0	0	0	0
		3-M	0	0	0	0	0	0	0
		4-M	0	0	0	0	0	0	0
		5-F	0	0	0	0	0	0	0
		6-F	0	0	0	0	0	0	0
		7-F	0	0	0	0	0	0	0
		8-F	0	0	0	0	0	0	0
I	1	9-M	0	0	0	0	0	0	0
		10-M	0	0	0	0	0	0	0
		11-M	0	0	0	0	0	0	0
		12-M	0	0	0	0	0	0	0
		13-F	0	0	0	0	0	0	0
		14-F	0	0	0	0	0	0	0
		15-F	0	0	0	0	0	0	0
		16-F	0	0	0	0	0	0	0
II	10	17-M	0	0	0	0	0	0	0
		18-M	0	0	0	0	0	0	0
		19-M	0	0	0	0	0	0	0
		20-M	0	0	0	0	0	0	0
		21-F	0	0	0	0	0	0	0
		22-F	0	0	0	0	0	0	0
		23-F	0	0	0	0	0	0	0
		24-F	0	0	0	0	0	0	0
III	100	25-M	0	0	0	0	0	0	0
		26-M	0	0	0	0	0	0	0
		27-M	0	0	0	0	0	0	0
		28-M	0	0	0	0	0	0	0
		29-F	0	0	0	0	0	0	0
		30-F	0	0	0	0	0	-	-
		31-F	0	0	0	0	0	0	0
		32-F	0	0	0	0	0	0	0

Note: BUMINTEST, Ames Company, Inc., Elkhart, Indiana.

0366011

TOXSTUDIES1325

TABLE XVII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: pH

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	9	8	7	8	8	8	8
		2-M	5	6	8	9	9	9	9
		3-M	9	6	8	8	8	8	9
		4-M	8	6	7	9	7	8	8
		5-F	5	6	7	7	8	9	8
		6-F	5	6	9	5	8	6	6
		7-F	8	6	5	5	8	9	6
		8-F	8	8	7	5	7	9	6
I	1	9-M	5	6	7	9	8	9	9
		10-M	5	7	8	8	6	9	9
		11-M	9	6	5	9	7	8	7
		12-M	5	8	5	8	6	8	7
		13-F	5	7	5	5	7	9	6
		14-F	9	8	5	5	7	7	8
		15-F	5	6	5	5	6	7	6
		16-F	7	9	6	9	8	9	8
II	10	17-M	7	6	7	9	8	8	-
		18-M	6	6	8	9	8	8	9
		19-M	7	9	7	9	9	8	9
		20-M	5	5	5	8	6	8	9
		21-F	9	5	5	5	7	6	8
		22-F	5	6	5	6	7	7	8
		23-F	7	6	5	8	7	7	8
		24-F	7	9	5	7	8	7	6
III	100	25-M	5	6	5	9	7	7	7
		26-M	7	6	5	7	8	8	8
		27-M	5	8	5	6	6	8	6
		28-M	8	8	5	8	9	7	7
		29-F	5	8	5	7	7	6	6
		30-F	5	8	7	7	6	-	-
		31-F	8	7	5	7	6	9	8
		32-F	6	5	6	5	7	7	6

Note: COMBISTIX, Ames Company, Inc., Elkhart, Indiana.

0366012

TOXSTUDIES1326

TABLE XVIII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Specific Gravity

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	1.054	1.032	1.032	1.032	1.022	1.022	1.015
		2-M	1.032	1.019	1.024	1.043	1.041	1.045	1.029
		3-M	1.032	1.024	1.024	1.057	1.017	1.034	1.022
		4-M	1.034	1.019	1.032	1.038	1.030	1.036	1.032
		5-F	1.026	1.010	1.015	1.022	1.015	1.026	1.012
		6-F	1.026	1.012	1.026	1.032	1.022	1.026	1.019
		7-F	1.024	1.019	1.038	1.041	1.027	1.038	1.019
		8-F	1.032	1.029	1.026	1.032	1.032	1.043	1.022
I	1	9-M	1.022	1.032	1.041	1.036	1.031	1.029	1.026
		10-M	1.012	1.032	1.010	1.054	1.024	1.038	1.015
		11-M	1.034	1.042	1.015	1.048	1.030	1.036	1.036
		12-M	1.041	1.029	1.017	1.045	1.045	1.026	1.019
		13-F	1.019	1.029	1.036	1.025	1.024	1.041	1.024
		14-F	1.022	1.029	1.022	1.029	1.027	1.036	1.032
		15-F	1.024	1.034	1.029	1.032	1.026	1.029	1.019
		16-F	1.019	1.019	1.032	1.041	1.013	1.032	1.022
II	10	17-M	1.054	1.043	1.034	1.043	1.022	1.048	-
		18-M	1.036	1.017	1.015	1.050	1.009	1.043	1.032
		19-M	1.036	1.007	1.032	1.050	1.024	1.041	1.034
		20-M	1.052	1.017	1.015	1.041	1.019	1.043	1.029
		21-F	1.029	1.022	1.057	1.041	1.029	1.054	1.029
		22-F	1.022	1.019	1.041	1.024	1.020	1.042	1.032
		23-F	1.022	1.017	1.026	1.034	1.030	1.032	1.024
		24-F	1.024	1.017	1.036	1.048	1.010	1.026	1.017
III	100	25-M	1.043	1.038	1.034	1.034	1.034	1.030	1.020
		26-M	1.024	1.019	1.026	1.043	1.013	1.036	1.015
		27-M	1.015	1.012	1.036	1.060	1.019	1.038	1.050
		28-M	1.010	1.019	1.017	1.041	1.022	1.036	1.024
		29-F	1.015	1.019	1.038	1.041	1.017	1.017	1.022
		30-F	1.032	1.015	1.050	1.032	1.039	-	-
		31-F	1.032	1.019	1.032	1.050	1.061	1.052	1.024
		32-F	1.041	1.010	1.036	1.043	1.015	1.040	1.019

TOXSTUDIES1327

TABLE XIX

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Microscopic Elements, average per high power field - Leukocytes

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	0	0	0	0	0	0	0
		2-M	0	0	0	0	0	0	0
		3-M	0	0	0	0	0	0	0
		4-M	0	0	0	0	0	0	0
		5-F	0	0	0	0	0	0	0
		6-F	0	0	0	0	0	0	0
		7-F	0	0	0	0	0	0	0
		8-F	0	0	0	0	0	8	0
I	1	9-M	0	0	0	0	0	0	0
		10-M	0	0	0	0	0	0	0
		11-M	0	0	0	0	0	0	0
		12-M	0	0	0	0	0	0	0
		13-F	0	0	0	0	0	0	0
		14-F	0	0	0	0	0	0	0
		15-F	0	0	0	0	0	0	0
		16-F	0	0	0	0	0	0	0
II	10	17-M	0	0	0	0	0	0	-
		18-M	0	0	0	0	0	0	0
		19-M	0	0	0	0	0	0	0
		20-M	0	0	0	0	0	0	0
		21-F	0	0	0	0	0	0	0
		22-F	0	0	0	0	0	0	0
		23-F	0	0	0	0	0	0	0
		24-F	0	0	0	0	0	0	0
III	100	25-M	0	0	0	0	0	0	0
		26-M	0	0	0	0	0	0	0
		27-M	0	0	0	0	0	0	0
		28-M	0	0	0	0	0	0	0
		29-F	0	0	0	0	0	0	0
		30-F	0	0	0	0	0	-	-
		31-F	0	0	0	0	15	0	0
		32-F	0	0	0	0	0	0	0

TOXSTUDIES1328

TABLE XIX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Microscopic Elements, average per high power field - Erythrocytes

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	0	0	0	0	0	0	0
		2-M	0	0	0	0	0	0	0
		3-M	0	0	0	0	0	0	0
		4-M	0	0	0	0	0	0	0
		5-F	0	0	0	0	0	0	0
		6-F	0	0	0	0	0	0	0
		7-F	0	0	0	0	0	0	0
		8-F	0	0	0	0	0	0	0
I	1	9-M	0	0	0	0	0	0	0
		10-M	0	0	0	0	0	0	0
		11-M	0	0	0	0	0	0	0
		12-M	0	0	0	0	0	0	0
		13-F	0	0	0	0	0	0	0
		14-F	0	0	0	0	0	0	0
		15-F	0	0	0	0	0	0	0
		16-F	0	0	0	0	0	0	0
II	10	17-M	0	0	0	0	0	0	-
		18-M	0	0	0	0	0	0	0
		19-M	0	0	0	0	0	0	0
		20-M	0	0	0	0	0	0	0
		21-F	0	0	0	0	0	0	0
		22-F	0	0	0	0	0	0	0
		23-F	0	0	0	0	0	0	0
		24-F	0	0	0	0	0	0	0
III	100	25-M	0	0	0	0	0	0	0
		26-M	0	0	0	0	0	0	0
		27-M	0	0	0	0	0	0	0
		28-M	0	0	0	0	25	0	0
		29-F	0	0	0	0	0	0	0
		30-F	0	0	0	0	0	-	-
		31-F	0	0	0	0	0	0	0
		32-F	0	0	0	0	0	0	0

TOXSTUDIES1329

TABLE XIX continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Urine Analyses: Microscopic Elements, average per high power field - Crystals

Group	Dietary Level (ppm)	Dog Number and Sex	Months: 0	1	3	6	12	18	24
UC	None	1-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		2-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		3-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		4-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		5-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		6-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		7-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		8-F	4	1-3	1-3	1-3	1-3	1-3	1-3
I	1	9-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		10-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		11-M	13-16	1-3	1-3	1-3	1-3	1-3	1-3
		12-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		13-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		14-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		15-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		16-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
II	10	17-M	1-3	1-3	1-3	1-3	1-3	1-3	-
		18-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		19-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		20-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		21-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		22-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		23-F	4	1-3	1-3	1-3	1-3	1-3	1-3
		24-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
III	100	25-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		26-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		27-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		28-M	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		29-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		30-F	1-3	1-3	1-3	1-3	1-3	-	-
		31-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3
		32-F	1-3	1-3	1-3	1-3	1-3	1-3	1-3

0366016

TOXSTUDIES1330

H. Pathologic Findings

1. Organ Weight Data

Organ weight data are presented in Tables XX through XXVIII.

Organ to body weight ratios derived from these data fall within limits considered normal for the beagle.

Animals 17 and 30 display occasional elevations in various organ to body weight ratios. Dog 17 was sacrificed in extremis after 60 weeks of testing and dog 30 died after 82 weeks. The elevated organ to body weight ratios for these animals are the result of the small body weight gains experienced by these animals before their death.

TOXSTUDIES1331

TABLE XX

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Liver

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	269.3	35.4
		2-M	397.2	39.7
		3-M[1]	346.3	34.3
		4-M[2]	481.8	32.6
		5-F	316.8	34.4
		6-F[1]	443.6	41.8
		7-F	326.1	34.3
		8-F[2]	355.3	28.6
I	1	9-M	419.0	37.4
		10-M[2]	415.1	34.6
		11-M[1]	360.8	26.0
		12-M	435.0	34.8
		13-F	312.6	31.9
		14-F[1]	319.1	34.3
		15-F[2]	293.1	28.4
		16-F	339.8	33.6
II	10	17-M[4]	524.0	52.4
		18-M	429.5	36.4
		19-M	465.9	39.8
		20-M[2]	440.0	30.1
		21-F	301.4	38.6
		22-F[1]	262.0	24.5
		23-F[2]	434.4	39.8
		24-F	484.1	44.4
III	100	25-M	498.4	47.0
		26-M	413.9	41.0
		27-M[2]	351.1	27.9
		28-M[1]	432.3	38.6
		29-F	460.7	45.6
		30-F[3]	202.3	32.6
		31-F	360.5	34.3
		32-F[1]	412.2	36.2

0366018

[1] Sacrificed after a 30-day recovery period.
[2] Sacrificed after a 60-day recovery period.
[3] Sacrificed in extremis after 60 weeks on test.

TOXSTUDIES1332

TABLE XXI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Kidneys

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	55.4	7.29
		2-M	79.2	7.92
		3-M[1]	70.8	7.01
		4-M[2]	71.4	4.82
		5-F	49.9	5.42
		6-F[1]	58.4	5.51
		7-F	45.3	4.77
		8-F[2]	53.0	4.27
I	1	9-M	72.8	6.50
		10-M[2]	72.3	6.02
		11-M[1]	53.9 (no right kidney)	3.88
		12-M	77.2	6.18
		13-F	56.7	5.78
		14-F[1]	43.0	4.62
		15-F[2]	41.6 (no right kidney)	4.04
		16-F	51.7	5.12
II	10	17-M[4]	76.2	7.62
		18-M	69.7	5.91
		19-M	79.5	6.79
		20-M[2]	68.7	4.70
		21-F	42.8	5.49
		22-F[1]	45.3	4.24
		23-F[2]	53.7	4.93
		24-F	53.2	4.88
III	100	25-M	59.1	5.58
		26-M	55.0	5.44
		27-M[2]	47.8	3.79
		28-M[1]	61.9	5.53
		29-F	59.2	5.86
		30-F[3]	59.7	9.63
		31-F	59.4	5.66
		32-F[1]	53.9	4.73

[1] Sacrificed after a 30-day recovery period.
[2] Sacrificed after a 60-day recovery period.
[3] Sacrificed in extremis after 60 weeks on test.
[4] Died after 82 weeks on test.

0366019

TOXSTUDIES1333

TABLE XXII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Heart

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	73.6	9.68
		2-M	107.0	10.7
		3-M[1]	80.9	8.01
		4-M[2]	128.6	8.69
		5-F	70.2	7.63
		6-F[1]	93.8	8.85
		7-F	89.0	9.37
		8-F[2]	113.5	9.15
I	1	9-M	99.9	8.92
		10-M[2]	86.0	7.17
		11-M[1]	111.9	8.05
		12-M	101.1	8.09
		13-F	67.9	6.93
		14-F[1]	69.7	7.49
		15-F[2]	83.6	8.12
		16-F	88.6	8.77
II	10	17-M[4]	83.3	8.33
		18-M	90.4	7.66
		19-M	113.0	9.66
		20-M[2]	111.7	7.65
		21-F	72.6	9.31
		22-F[1]	76.8	7.18
		23-F[2]	99.9	9.16
		24-F	75.1	6.89
III	100	25-M	84.8	8.00
		26-M	82.0	8.12
		27-M[2]	92.3	7.32
		28-M[1]	93.9	8.38
		29-F	63.0	6.24
		30-F[3]	44.1	7.11
		31-F	80.6	7.68
		32-F[1]	84.2	7.38

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.
[3]Sacrificed in extremis after 60 weeks on test.
[4]Died after 82 weeks on test.

0366020

TOXSTUDIES1334

TABLE XXIII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Brain

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	72.8	9.58
		2-M	76.1	7.61
		3-M[1]	82.0	8.12
		4-M[2]	82.9	5.60
		5-F	72.3	7.86
		6-F[1]	77.4	7.30
		7-F	79.4	8.36
		8-F[2]	80.4	6.48
I	1	9-M	76.0	6.78
		10-M[2]	82.8	6.90
		11-M[1]	86.0	6.19
		12-M	88.0	7.04
		13-F	84.2	8.59
		14-F[1]	70.9	7.62
		15-F[2]	71.4	6.93
		16-F	79.0	7.82
II	10	17-M[4]	82.4	8.24
		18-M	87.5	7.41
		19-M	82.2	7.02
		20-M[2]	85.6	5.86
		21-F	75.8	9.72
		22-F[1]	70.9	6.26
		23-F[2]	74.7	6.85
		24-F	67.5	6.19
III	100	25-M	65.8	6.21
		26-M	69.1	6.84
		27-M[2]	94.8	7.52
		28-M[1]	70.7	6.31
		29-F	71.0	7.03
		30-F[3]	72.7	11.72
		31-F	75.7	7.21
		32-F[1]	90.9	7.97

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.
[3]Sacrificed in extremis after 60 weeks on test.
[4]Died after 82 weeks on test.

0366021

TOXSTUDIES1335

TABLE XXIV

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Spleen

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	21.3	2.80
		2-M	27.2	2.72
		3-M[1]	16.3	1.61
		4-M[2]	29.1	1.97
		5-F	19.2	2.87
		6-F[1]	22.9	2.16
		7-F	20.2	2.13
		8-F[2]	30.1	2.43
I	1	9-M	22.2	1.98
		10-M[2]	26.8	2.23
		11-M[1]	20.3	1.46
		12-M	18.3	1.46
		13-F	17.8	1.82
		14-F[1]	26.9	2.89
		15-F[2]	19.3	1.87
		16-F	25.4	2.51
II	10	17-M[4]	22.8	2.28
		18-M	21.9	1.86
		19-M	26.1	2.23
		20-M[2]	27.2	1.86
		21-F	13.1	1.68
		22-F[1]	16.2	1.51
		23-F[2]	30.8	2.83
		24-F	22.3	2.04
III	100	25-M	21.4	2.02
		26-M	26.8	2.65
		27-M[2]	21.0	1.67
		28-M[1]	23.4	2.09
		29-F	16.5	1.63
		30-F[3]	9.1	1.47
		31-F	25.2	2.38
		32-F[1]	24.2	2.12

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.
[3]Sacrificed in extremis after 60 weeks on test.
[4]Died after 82 weeks on test.

0366022

TOXSTUDIES1336

TABLE XXV

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Gonads

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	16.0	2.10
		2-M	15.2	1.52
		3-M[1]	14.3	1.41
		4-M[2]	20.5	1.38
		5-F	0.769	0.0836
		6-F[1]*	2.498	0.236
		7-F	1.372	0.144
		8-F[2]	0.993	0.0801
I	1	9-M	35.0	3.12
		10-M[2]	23.2	1.93
		11-M[1]	22.2	1.60
		12-M	28.2	2.26
		13-F	0.831	0.0848
		14-F[1]	0.924	0.0994
		15-F[2]	1.221	0.118
		16-F	1.000	0.0990
II	10	17-M[4]	17.2	1.72
		18-M	16.7	1.41
		19-M	15.2	1.30
		20-M[2]	23.1	1.58
		21-F	0.723	0.0927
		22-F[1]	0.791	0.0739
		23-F[2]	1.173	0.108
		24-F*	2.344	0.215
III	100	25-M	18.0	1.70
		26-M	16.2	1.60
		27-M[2]	22.8	1.81
		28-M[1]	23.8	2.12
		29-F*	1.206	0.119
		30-F[3]	N/A	-
		31-F	1.275	0.121
		32-F[1]	N/A	-

0366023

N/A = Data not available.

[1]Sacrificed after a 30-day recovery period.

[2]Sacrificed after a 60-day recovery period.

* Animal in estrus.

[3]Sacrificed in extremis after 60 weeks on test.

[4]Died after 82 weeks on test.

TOXSTUDIES1337

TABLE XXVI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Adrenal Glands

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	1.170	0.154
		2-M	1.480	0.148
		3-M[1]	1.356	0.134
		4-M[2]	1.132	0.0765
		5-F	1.569	0.170
		6-F	1.834	0.173
		7-F	1.308	0.138
		8-F[2]	1.297	0.105
I	1	9-M	1.611	0.144
		10-M[2]	1.456	0.121
		11-M[1]	1.085	0.0780
		12-M	1.698	0.136
		13-F	1.578	0.161
		14-F[1]	1.618	0.174
		15-F[2]	1.710	0.166
		16-F	1.829	0.181
II	10	17-M[4]	2.250	0.225
		18-M	1.391	0.118
		19-M	1.846	0.158
		20-M[2]	1.903	0.130
		21-F	1.863	0.239
		22-F[1]	1.242	0.116
		23-F[2]	1.522	0.140
		24-F	1.795	0.165
III	100	25-M	1.338	0.126
		26-M	1.585	0.157
		27-M[2]	1.457	0.116
		28-M[1]	1.464	0.131
		29-F	2.488	0.246
		30-F[3]	N/A	-
		31-F	2.283	0.217
		32-F[1]	1.991	0.175

0366024

N/A = Data not available.

[1]Sacrificed after a 30-day recovery period.

[2]Sacrificed after a 60-day recovery period.

[3]Sacrificed in extremis after 60 weeks on test.

[4]Died after 82 weeks on test.

TOXSTUDIES1338

TABLE XXVII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Thyroid Gland

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	0.435	0.0572
		2-M	1.013	0.101
		3-M[1]	1.066	0.106
		4-M[2]	1.101	0.0744
		5-F	0.615	0.0668
		6-F[1]	1.692	0.160
		7-F	0.631	0.0664
		8-F[2]	0.952	0.0768
I	1	9-M	1.290	0.115
		10-M[2]	1.146	0.0955
		11-M[1]	0.849	0.0611
		12-M	0.901	0.0721
		13-F	1.489	0.152
		14-F[1]	0.673	0.0724
		15-F[2]	0.876	0.0850
		16-F	1.119	0.111
II	10	17-M[4]	0.900	0.0900
		18-M	1.389	0.118
		19-M	1.273	0.109
		20-M[2]	1.792	0.123
		21-F	1.036	0.133
		22-F[1]	0.656	0.0613
		23-F[2]	1.033	0.0948
		24-F	1.156	0.106
III	100	25-M	0.791	0.0746
		26-M	0.913	0.0904
		27-M[2]	0.777	0.0617
		28-M[1]	0.974	0.0870
		29-F	0.842	0.0834
		30-F[3]	N/A	-
		31-F	1.098	0.104
		32-F[1]	0.684	0.0600

0366025

N/A = Data not available.

[1]Sacrificed after a 30-day recovery period.

[2]Sacrificed after a 60-day recovery period.

[3]Sacrificed in extremis after 60 weeks on test.

[4]Died after 82 weeks on test.

TOXSTUDIES1339

TABLE XXVIII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity - Beagle Dogs

Organ Weight Data: Pituitary Gland

Group	Dietary Level (ppm)	Dog Number and Sex	Organ Weight (g)	Organ/Body Weight Ratio (g/1,000g)
UC	None	1-M	0.086	0.0113
		2-M	0.116	0.0116
		3-M[1]	0.080	0.00792
		4-M[2]	0.099	0.00669
		5-F	0.101	0.0110
		6-F[1]	0.184	0.0174
		7-F	0.101	0.0106
		8-F[2]	0.097	0.00782
I	1	9-M	0.095	0.00848
		10-M[2]	0.126	0.0105
		11-M[1]	0.106	0.00762
		12-M	0.111	0.00888
		13-F	0.078	0.00776
		14-F[1]	0.082	0.00882
		15-F[2]	0.101	0.00980
		16-F	0.126	0.0125
II	10	17-M[4]	N/A	-
		18-M	0.091	0.00771
		19-M	0.122	0.0104
		20-M[2]	0.079	0.00541
		21-F	0.121	0.0155
		22-F[1]	0.156	0.0146
		23-F[2]	0.080	0.00734
		24-F	0.083	0.00761
III	100	25-M	0.081	0.00764
		26-M	0.185	0.0183
		27-M[2]	0.070	0.00556
		28-M[1]	0.195	0.0174
		29-F	0.145	0.0144
		30-F[3]	N/A	-
		31-F	0.118	0.0112
		32-F[1]	0.084	0.00737

0366026

N/A = Data not available.

[1]Sacrificed after a 30-day recovery period.

[2]Sacrificed after a 60-day recovery period.

[3]Sacrificed in extremis after 60 weeks on test.

[4]Died after 82 weeks on test.

TOXSTUDIES1340

2. Gross and Histologic Findings

The gross and histologic findings are presented in Tables XXIX through XXXII. All tissues and organs not mentioned were normal.

The grading system used is as follows:

\+ = minimal or trace
++ = mild
+++ = moderate
++++ = severe

TOXSTUDIES1341

IBT No. C7299 August 14, 1970

I have completed a histopathologic examination of the dog tissues from animal No. 30 from C7299. There was a severe chronic peritonitis present on the serosal surface of all of the gastrointestinal tract. This consisted of a thick layer of scar tissue, granulated tissue and a limited amount of cellular infiltration. This lesion was at least several weeks old. I do not believe that this lesion is related to the compound. There was no evidence of ulceration or mucosal injury. The cause of the lesion cannot be determined from material available for study but it could be associated with trauma, torsion of the intestine or intestinal obstruction of some type.

Ward R. Richter

Ward R. Richter, D. V. M., M. S.
Diplomate, American College of
Veterinary Pathologists

TOXSTUDIES1342

IBT No. C7299 January 28, 1971

I have completed a histopathologic evaluation of the tissues from IBT No. C7299 (Animal No. 17 only). There was evidence of chronic pneumonitis and chronic pleuritis. All other tissues are within normal limits.

Ward R. Richter

Ward R. Richter, D. V. M., M. S.
Diplomate, American College of
Veterinary Pathologists

TOXSTUDIES1343

IBT No. C7299 October 28, 1971

The mild, focal, non-specific inflammation observed in a few sections of lung, liver, kidney, gall bladder, prostate and salivary gland is frequently seen in clinically normal untreated dogs. The moderate to severe inflammation in the sections of thyroid is true inflammation found in certain blood lines of dogs and is not drug related.

No change attributable to drug action is observed in any of the sections studied.

D. H. Yost DVM

Donald H. Yost, D. V. M.
Diplomate, American College of
Veterinary Pathologists

0366030

TOXSTUDIES1344

TABLE XXIX

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Untreated Control Group

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
1-M	-	-	-	-	-
2-M	-	-	-	-	-
3-M[1]	Prostate gland	-	-	Focal non-specific chronic inflammation	+++
	Lungs	-	-	Focal hemorrhages (agonal)	++
	Lymph node (cervical)	-	-	Congestion	+
4-M[2]	-	-	-	-	-
5-F	-	-	-	-	-
6-F[1]	-	-	-	-	-
7-F	-	-	-	-	-
8-F[2]	-	-	-	-	-

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.

TOXSTUDIES1345

TABLE XXX

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Test Group I: 1 ppm

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
9-M	-	-	-	-	-
10-M[2]	-	-	-	-	-
11-M[1]	Kidneys	Anephrogenesis, right	-	-	-
	Testes	-	-	A few lipid droplets in tubules	+
	Prostate gland	-	-	Focal non-specific chronic inflammation	++
12-M	-	-	-	-	-
13-F	Salivary gland	-	-	Hemorrhage and edema	+++
14-F[1]	Lungs	-	-	Emphysema	++
15-F[2]	Kidneys	Anephrogenesis, right	-	-	-
16-F	-	-	-	-	-

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.

0366032

TOXSTUDIES1346

TABLE XXXI

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Test Group II: 10 ppm

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
17-M[4]	(examination performed 8-12 hours post-mortem)				
	Eyes	Corneal opacity, conjuntiva red and swollen (right only)	++	-	-
	Lungs	Distal half each lobe, tissues consolidated, partially liquified, blackened; pleural and pericardial membranes thickened with adhesions to adjacent lung tissues; thoracic cavity completely filled with translucent fluid.	++++	Congestion with chronic pneumonitis (parasitic) and chronic pleuritis	++
18-M	Prostate gland	-	-	Focal non-specific chronic inflammation	+++
	Stomach	Numerous pinpoint nodules (pyloric region)	++	-	-
19-M	Kidneys	-	-	Focal non-specific chronic inflammation (pelvis)	+++
	Stomach	Numerous pinpoint nodules (pyloric region)	+	-	-
20-M[2]	Lungs	Hyperemia	++	-	-

0366033

TOXSTUDIES1347

TABLE XXXI continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Test Group II: 10 ppm

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
21-F	Kidneys	-	-	Focal non-specific chronic inflammation (pelvis)	+++
	Stomach	Numerous pinpoint nodules (pyloric and cardiac regions)	+++	-	-
	Lungs	-	-	Focal non-specific chronic inflammation	++
22-F[1]	-	-	-	-	-
23-F[2]	Kidneys	Anephrogenesis, right	-	-	-
24-F	-	-	-	-	-

[1]Sacrificed after a 30-day recovery period.
[2]Sacrificed after a 60-day recovery period.
[4]Died after 82 weeks on test.

TOXSTUDIES1348

TABLE XXXII

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Test Group III: 100 ppm

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
25-M	Stomach	Numerous pinpoint nodules (pyloric region)	+	-	-
26-M	Prostate gland	-	-	Focal non-specific chronic inflammation	+++
	Liver	-	-	Focal non-specific chronic inflammation (periportal)	++
	Thyroid gland	-	-	Chronic interstitial inflammation	++++
27-M[2]	Lungs	-	-	Interstitial pneumonia	+
28-M[1]	Kidneys	-	-	Focal non-specific chronic inflammation (cortex)	+
	Lungs	-	-	Emphysema	+
	Salivary gland	-	-	Small ductal cell adenoma	-
	Spleen	-	-	Siderotic nodule	-
	Stomach	Numerous pinpoint nodules (pyloric and cardiac regions)	+++	-	-
29-F	Stomach	Numerous pinpoint nodules (pyloric region)	++	-	-
	Thyroid	-	-	Chronic interstitial inflammation	+++
	Uterus	In estrous	-	-	-

0366035

TOXSTUDIES1349

TABLE XXXII continued

TEST MATERIAL: Aroclor 1242

Two-Year Chronic Oral Toxicity Study - Beagle Dogs

Gross and Histologic Findings

Test Group III: 100 ppm

Dog Number and Sex	Organ	Gross	Grade	Histologic	Grade
30-F[3]	-	All tissues appear dehydrated	+++	-	-
	Peritoneum	Thickened, opaque and constricted tightly about abdominal viscera; serosae of GI tract show numerous adhesions to each other and adjacent organs; no lesions or blockages apparent in GI tract in spite of the constriction and pressure caused by peritoneum; entire abdominal cavity filled with translucent fluid.	++++	Chronic peritonitis All serosal surfaces of GI tract are covered by a thick layer of dense scar tissue or granulated tissue.	++++ -
	Lungs	-	-	Focal interstitial pneumonia	+
31-F	-	-	-	-	-
32-F[1]	Lymph node (cervical)	-	-	Reticulo-endothelial hyperplasia	+
	Small intestine	Petechiae, jejunum	++	-	-
		Petechiae, ileum	+	-	-
	Stomach	Numerous pinpoint nodules (pyloric and cardiac regions)	+++	-	-

[1] Sacrificed after a 30-day recovery period.
[2] Sacrificed after a 60-day recovery per[illegible].
[3] Sacrificed in extremis after 60 weeks [illegible] st.

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TOXSTUDIES1350