

5-12-85

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB

DISC 40 TOPIC 05054527

GUIDELINE 40 CFR 163.72-2

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00002875

CONTENT CAT 01

Frear, D.E.H.; Boyd, J.E. (1967) Use of "Daphnia magna" for the microbioassay of pesticides: I. Development of standardized techniques for rearing Daphnia and preparation of dosage-mortality curves for pesticides. Journal of Economic Entomology, 60(5):1228-1236. (Also "In" unpublished submission received May 11, 1977 under 239-2458; submitted by Chevron Chemical Co., Richmond, Calif.; CDL:230225-A)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 5/12/85 END DATE 5/12/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: cm2 801 5577560

SIGNATURE: Ann Stavola

DATE: 5/12/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This article is mainly concerned with the laboratory rearing practices of daphnids. However it cannot be used with the Lindane standard as too much pertinent data are missing to allow it to be fully evaluated. These data are: percent AI, raw mortality data, statistical method used to compute the LC50 value, P.O. levels.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05050045

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00006660

CONTENT CAT 02

Rhone-Poulenc, Incorporated (19??) Toxicity to Bees. (Unpub-
lished study received Nov 17, 1975 under 359-620; CDL:223344-N)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05050545

DIRECT RVW TIME =

(MH)

START-DATE

2/20/85

END DATE

2/20/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study cannot be used in the
Lindane Standard. The materials and
methods are insufficiently described and
the study cannot be evaluated.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05050045

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00006692

CONTENT CAT 02

Reed, L.R. (1966). Insecticide--Phosalone--RP11974: SR/4/66. (English translation of report no. 688; unpublished study received Dec 15, 1966 under 7G0575; prepared by Rhone-Poulenc, Inc. in cooperation with Centre Technique Interprofessionnel des Oleagineux Metropolitains, I.N.T.A., Bee Station and Univ. of California--Riverside, submitted by Chipman Chemical Co., Inc., Burlingame, Calif.; CDL:090729-G)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola
TITLE: Aquatic Biologist
ORG: HED/EEB
LOC/TEL: 801-CM2-5577560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

Study NOT Pertinent to
the Lindane Standard

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00013531

CONTENT CAT 01

Henderson, C.; Pickering, G.H.; Tarzwell, C.M. (1959) The Toxicity of Organic Phosphorus and Chlorinated Hydrocarbon Insecticides to Fish: Report No. 4276. (Unpublished study received Mar 4, 1966 under unknown admin. no.; prepared by U.S. Public Health Service, Robert A. Taft Sanitary Engineering Center, submitted by Mobay Chemical Corp., Agricultural Div., Kansas City, Mo.; CDL:130685-B)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola
TITLE: Aquatic Biologist
ORG: EEB
LOC/TEL: cm2-fbi 337 260

SIGNATURE: Ann Stavola

DATE: 2/20/85

APPROVED BY:
TITLE:
ORG:
LOC/TEL:

SIGNATURE:

DATE:

DUPLICATE OF MRD 00091881

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103047

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00028004

CONTENT CAT 01

Davis, H.C. (1961) Effects of some pesticides on eggs and larvae of oysters (#"Crassostrea Virginica" #) and clams (#"Venus mercenaria" #). Commercial Fisheries Review 23(12):8-23. (Also "In" unpublished study received Aug 20, 1976 under 39445-1; submitted by American Carbonyl, Inc., Tenafly, N.J.; CDL:228232-J)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: TOX -40-10050047

DIRECT RVW TIME = 1 (MH) START-DATE 5/9/85 END DATE 5/9/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL:

cm2-801 5577560

SIGNATURE: Ann Stavola

DATE: May 9, 1985

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

There is insufficient data regarding test procedures and mortality data to evaluate this study. This study cannot be used in the lindane standard.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103045

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00029839

CONTENT CAT 02

U.S. Fish and Wildlife Service (1964) Laboratory Studies. (Unpub-
lished study received on unknown date under unknown admin. no.;
submitted by Elanco Products Co., Div. of Eli Lilly and Co.,
Indianapolis, Ind.; CDL:131189-C)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/14/85 END DATE 2/14/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: EEB/EEB

LOC/TEL: Pol-cm2 557260

SIGNATURE: Ann Stavola

DATE: 14 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study cannot be used in the Lindane
standard as the materials and methods used to test
the pesticides were not described.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00033320

CONTENT CAT 02

Clemens, H.P.; Sneed, K.E. (1959) Lethal Doses of Several Commercial Chemicals for Fingerling Channel Catfish. Washington, D.C.; U.S. Fish and Wildlife Service. (Special scientific report no. 316; published study.)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: cm2-poi 557 7560

SIGNATURE: Ann Stavola

DATE: 2/20/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This is a summary of data. The materials and methods used to do the experiments are not described. This report cannot be used in the Lindane Standard.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00034713

CONTENT CAT 01

Tooby, T.E.; Hursey, P.A.; Alabaster, J.S. (1975) The acute toxic-
ity of 102 pesticides and miscellaneous substances to fish.
Chemistry and Industry 21(?/Jun):523-526. (Published study)

SUBST. CLASS = S.

DIRECT RVW TIME = 1

(MH)

START-DATE

4/19/85

END DATE

4/19/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

Ann Stavola
Aquatic Biologist
HEB/EEB
CM2-801 537 2560

SIGNATURE:

Ann Stavola

DATE:

4/19/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

The study cannot be validated as
there is insufficient data in the materials
and methods section in addition to lack of raw
data. with

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00035796

CONTENT CAT 11

Pickering, G.H.; Henderson, C.; Lemke, A.E. (1962) The toxicity of organic phosphorus insecticides to different species of warm-water fishes. Transactions of the American Fisheries Society 91(2):175-184. (Also in unpublished submission received Mar 4, 1966 under unknown admin. no.; submitted by Mobay Chemical Corp., Kansas City, Mo.; CDL:130685-F)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 5/14/85 END DATE 5/14/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/GEB

LOC/TEL: cm2-861 557 2560

SIGNATURE: Ann Stavola

DATE:

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is primarily concerned with the toxicity of organic phosphates to fish. It is not pertinent to the Lindane Standard.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane[†] (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103047

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00038612

CONTENT CAT 01

Bionomics--EG&G, Incorporated (1975) The Acute and Subchronic Toxicity of R-20458, Altosid and TH-6040 to the Grass Shrimp, *†Palaemonetes pugio†*. Final rept. (Unpublished study received Feb 10, 1976 under 6G1744; submitted by Thompson-Hayward Chemical Co., Kansas City, Kans.; CDL:094974-D)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study does not appear to be relevant to the Lindane Standard as none of the chemicals tested were lindane.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05000042

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00048109

CONTENT CAT 02

Dewitt, J.B.; Stickel, W.H.; Springer, P.F. (1962) Wildlife Studies, Patuxent Wildlife Research Center: 1961-1962. (U.S. Fish and Wildlife Service, unpublished study; CDL:241577-A)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: 601-CM2 5577560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is illegible. Furthermore it does not provide additional useful data on the toxicity of lindane to birds.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00048824

CONTENT CAT 11

Union Carbide Corporation (1974) Effects on Non-target Organisms
and the Environment. (Unpublished study received Jan 31, 1977
under 1016-70; CDL:227689-A)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola
TITLE: Aquatic Biologist
ORG: NED/EEB
LOC/TEL: CMA-201 557 2560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This report is a summary of toxicity data.
Most of the data pertains to Sevin (carbaryl).
This report is not pertinent to the Lindane Standard.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00055673

CONTENT CAT 02

Anon. (19??) Quantities of Pesticides Lethal to Fish, Birds and
Mammals. (Unpublished study received on unknown date under
unknown admin. no.; submitted by ?; CDL:131514-A)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05050542

TOX -40-05050521

DIRECT RVW TIME =

(MH)

START-DATE 2/20/85

END DATE 2/20/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is a summary of data. It cannot
be used in the Lindane Standard.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054547

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00058502

CONTENT CAT 02

Butler, P.A. (1965) Effects of Pesticides on Commercial Fisheries:
Report No. 11106. (U.S. Fish and Wildlife Service, Bureau of
Commercial Fisheries; unpublished study; CDL:093228-E)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05054543

DIRECT RVW TIME =

(MH)

START-DATE

4/19/85

END DATE

4/19/85

REVIEWED BY:

Ann Stauda

TITLE:

Aquatic Biologist

ORG:

HED/EEB

LOC/TEL:

CM 2 557 7500

SIGNATURE:

Ann Stauda

DATE:

4/19/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This is a Summary of data
and cannot be used in the Lindane
Registration Standard.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00060630

CONTENT CAT 01

Ludemann, D.; Neumann, H. (1971) Tests on the Acute Toxic Effects of the Latest Contact Insecticides on One-Summer Carp: Report No. 19938. (Unpublished study received Mar 27, 1974 under 4F1485; submitted by Chemagro Corp., Kansas City, Mo.; CDL: 092011-K)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 4/19/85 END DATE 4/19/85

REVIEWED BY: Ann Stauda

TITLE: Aquatic Biologist

ORG: NED/EEB

LOC/TEL: CM2-Pol 557 756

SIGNATURE: Ann Stauda

DATE: 4/19/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study cannot be used in the Lindane Registration Standard as it does not meet our guidelines requirements for acute aquatic toxicity studies. The tests were only run for 48 hours and the test species was one-Summer carp, an exotic species which is not recommended by EPA for toxicity tests.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05103043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00060869

CONTENT CAT 02

U.S. Department of Agriculture, Agricultural Research Service
(19??) Toxicity to Oysters, White Mullet and Longnose Killi-
fish). (Unpublished study; CDL:090504-A)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola
TITLE: Aquatic Biologist
ORG: HED/EEB
LOC/TEL: B1- CM2 5572560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study cannot be used in the
Lindane Standard as the Protocol was
not described in full detail.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054547

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00060996

CONTENT CAT 02

Butler, P.A. (1963) Commercial Fisheries Investigations. By U.S.
Fish and Wildlife Service, Bureau of Commercial Fisheries, Div.
of Biological Research, Washington, D.C.: USFWS. (Circular
167; pp. 11-15, 18, 20, 22-24 only; published study; CDL:091172-S)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05054543

DIRECT RVW TIME = 1 (MH) START-DATE 5/7/85 END DATE 5/7/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: cm2 - fol - 5377560

SIGNATURE: Ann Stavola

DATE: 5/7/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

Summary

This report cannot be used
in the Lindane Standard

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00065495

CONTENT CAT 01

Pickering, G.H.; Henderson, C.; Lemke, A.E. (1960) The Toxicity of Organic Phosphorus Insecticides to Different Species of Warm Water Fishes; Report No. 9282. (U.S. Public Health Service, R.A. Taft Sanitary Engineering Center, unpublished study including Chemagro Corp. summary; CDL:229299-A)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: 801- cm2 557560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is a draft of Study
MRID 00035796.

CASE GS0315 LINDANE PM PM# 04/05/84

CHEM 009001 Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05000040

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00072045 CONTENT CAT 11

Rosenberg, L.E.; Rudd, R.L.; Genelly, R.E.; et al. (1953) The Effects of Economic Poisons on Wildlife: Project W-45R-2. Quarterly progress rept., Oct 15, 1953. (Unpublished study received Mar 3, 1955 under PP0007; submitted by Shell Chemical Corp., New York, N.Y.; CDL:090086-N)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05000042 TOX -40-05000031

DIRECT RVW TIME = (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: NED/EEB

LOC/TEL: 801-CM2 5577560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This is a literature review
of data, and it cannot be used
in the Lindane Standard

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054540

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00074879

CONTENT CAT 02

Lowe, J.I. (197?) Relative Toxicity of Mosquito Control Chemicals
to Estuarine Organisms. (Unpublished study received Sep 27,
1965 under unknown admin. no.; prepared by Rutgers Univ., sub-
mitted by Chevron Chemical Co., Richmond, Calif.; CDL:125232-1)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

PRIM: EFB -20-1005

SEC: EEB -40-05054543

EEB -40-05054547

DIRECT RVW TIME = 1 (MH) START-DATE 2/13/85 END DATE 2/13/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: cm2 - 801 / 557 7560

SIGNATURE: Ann Stavola

DATE: 13 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is not pertinent to the
Lindane Standard as it is only a summary
of data and does not contain original material

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 01 - TECHNICAL CHEMICAL

FICHE/MASTER ID 00075542

CONTENT CAT 11

U.S. Fish and Wildlife Service (1965) Effects of Pesticides on Fish and Wildlife: 1964 Research Findings of the Fish and Wildlife Service. Washington, D.C.: USFWS. (Circular 226; pp. 1,2,51-63 only; available from: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402; published study; CDL:221963-B)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

There ~~are~~ ^{is} not enough detail regarding Materials and Methods to evaluate this study.
This study cannot be used in the Lindane Standard.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00081326

CONTENT CAT 02

Farbenfabriken Bayer, A.G. (19??) Comparative Tests Determining Fish Toxicity and Mosquito Effect Using Fish Species "Lebistis" # "reticulatus" (Pet.) and "Platyopocilus maculatus" (Gue.) and Larvae of "Aedes aegypti" L.: #Submitter! 5337. (Unpublished study received Apr 15, 1963 under 3125-73; submitted by Mobay Chemical Corp., Kansas City, Mo.; CDL:051134-K)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS
PRIM: EEB -55-10154043

DIRECT RVW TIME = 7 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola
TITLE: Aquatic Biologist
ORG: EEB/EEB
LOC/TEL: 801-CM2 5571560

SIGNATURE: Ann Stavola

DATE: 20 Feb 85

APPROVED BY:
TITLE:
ORG:
LOC/TEL:

SIGNATURE:

DATE:

This study cannot be used in the Lindane standard since the Materials and Methods used to conduct the study were not included. Furthermore, EPA requires fish toxicity studies to be conducted for 96 hours, and this study was conducted for only 24 hours.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00091881

CONTENT CAT 01

Henderson, C.; Pickering, O.H.; Tarzwell, C.M. (1959) The Toxicity of Organic Phosphorus and Chlorinated Hydrocarbon Insecticides to Fish: (Mobay) 4276a. (U.S. Public Health Service, Robert A. Taft Sanitary Engineering Center, Water Supply and Water Pollution Research, Bioassay Application Studies; unpublished paper presented at the Second Seminar on Biological Problems in Water Pollution; Apr 21, 1959; Cincinnati, Ohio; unpublished study; CDL:110547-B)

SUBST. CLASS = S.

DIRECT RVW TIME = 4 (MH) START-DATE 2/12/85 END DATE 2/13/85

REVIEWED BY: Ann Starola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: CMG, Pol/ 557-7560

SIGNATURE: Ann Starola

DATE: 13 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

The data on chlorinated hydrocarbons
is a summary of the data presented in MRID
00105346

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 35 TOPIC 10990042

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00101174

CONTENT CAT 03

Prestt, I.; Jefferies, D. (1969) Winter numbers, breeding success,
and organochlorine residues in the great crested grebe in
Britain. Bird Study 16:168-186. (Also In unpublished sub-
mission received on unknown date under unknown admin. no.;
submitted by Shell Chemical Co., Washington, DC; CDL:120482-E)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

PRIM: EEB -55-10154042

DIRECT RVW TIME =

(MH)

START-DATE

2/20/85

END DATE

2/20/85

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE: 2/20/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is not pertinent to the
Lindane Standard. It mainly deals
with breeding success of the great
crested grebe

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 35 TOPIC 10990042

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00101196

CONTENT CAT 03

Walker, C.; Hamilton, G.; Harrison, R. (1967) Organochlorine insecticide residues in wild birds in Britain. J. Sci. Ed Agric. 18(Mar):123-129. (Also In unpublished submission received on unknown date under unknown admin. no.; submitted by Shell Chemical Co., Washington, DC; CDL:120482-AB)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/13/85 END DATE 2/13/85

REVIEWED BY: Ann Stavola
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ORG: HED/EEB
LOC/TEL: 801-CM2 5572560

SIGNATURE: Ann Stavola

DATE: 13 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is not pertinent to the Lindane Standard as the data presented pertains mostly to the other organochlorines as DDT and dieldrin.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 35 TOPIC 05251543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00103561

CONTENT CAT 03

Macek, K. (1970) Biological magnification of pesticide residues in food chains. Pages 17-21, In Biological Impact of Pesticides in the Environment. Corvallis, OR: Oregon State Univ. (Environmental health Sciences Series no. 1; also In unpublished submission received Oct 1, 1971 under 1F1070; submitted by Shell Chemical Co., Washington, DC; CDL:091969-AU)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/13/85 END DATE 2/13/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic biologist

ORG: NED JEEB

LOC/TEL: 801-cm2 557 7560

SIGNATURE: Ann Stavola

DATE: 13 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This study is not pertinent
to the Lindane standard as it is a
Summary of earlier data.

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00105518

CONTENT CAT 02

Macek, K.; McAllister, W. (1970) Insecticide susceptibility of some common fish family representatives. Trans. Amer. Fish Soc. 99(4):20-27. Taken from: [Source unknown]. (Abstract 33974f; also in unpublished submission received Sep 17, 1975 under 1F1118; submitted by Hercules, Inc., Wilmington, DE; CDL: 094610-C)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

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SIGNATURE: Ann Stavola

DATE: 2/20/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This is a summary and not pertinent to the Lindane Standard

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 00112131

CONTENT CAT 01

Katz, M. (19??) Acute toxicity of some organic insecticides to three species of salmonids and to the threespine stickleback. Source unknown! p.264-268. (Submitter 9885; also in unpublished submission received Jan 19, 1967 under unknown admin. no.; submitted by Mobay Chemical Corp., Kansas City, MO; CDL: 131549-B)

SUBST. CLASS = S.

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: CM2-801 557 7560

SIGNATURE: Ann Stavola

DATE: 2/20/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

DUPLICATE OF MRID 00105344

CASE GS0315

LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 40 TOPIC 05054540

FORMULATION 90 - FORMULATION NOT IDENTIFIED

FICHE/MASTER ID 00118180

CONTENT CAT 02

Eisler, R. (1964) Letter sent to W. Appleby dated Sep 25, 1964
@Toxicity of DDVP and various other chemicals to shrimp and
various marine animals. (Unpublished study received Dec 18,
1975 under 201-125; prepared by U.S. Fish and Wildlife Service,
Sandy Hook Marine Laboratory, submitted by Shell Chemical Co.,
Washington, DC; CDL:223859-B)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05054543

EEB -40-05054547

DIRECT RVW TIME = 1 (MH) START-DATE 2/20/85 END DATE 2/20/85

REVIEWED BY: Ann Stavola

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ORG: HED/EEB

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SIGNATURE: Ann Stavola

DATE: 2/20/85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

This report is not pertinent
to the Lindane Standard.

CASE GS0315 LINDANE

PM PM# 04/05/84

CHEM 009001

Lindane (gamma isomer of benzene hexac

BRANCH EEB DISC 35 TOPIC 05259043

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 05003107

CONTENT CAT 01

Macek, K.J.; Hutchinson, C.; Cope, D.B. (1969) The effects of temperature on the susceptibility of bluegills and rainbow trout to selected pesticides. Bulletin of Environmental Contamination and Toxicology 4(3):174-183.

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

SEC: EEB -40-05054543

DIRECT RVW TIME = 1 (MH) START-DATE 13 Feb 85 END DATE 13 Feb 85

REVIEWED BY: Ann Stavola

TITLE: Aquatic Biologist

ORG: HED/EEB

LOC/TEL: 801-CM2 557-7560

SIGNATURE: Ann Stavola

DATE: 13 Feb 85

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

SIGNATURE:

DATE:

The study could not be evaluated as the attached reprint was of a phytotoxicity study instead.