

US EPA ARCHIVE DOCUMENT

Hecht

CONFIDENTIAL BUSINESS INFORMATION
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MRID:

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DATA EVALUATION RECORD

Releasable

- (1) CHEMICAL: Trichlorfon
- (2) TYPE OF FORMULATION: Dipterex
- (3) CITATION: Hecht, G. No date. [Dipterex: Inhalation Toxicity Data.] (Farbenfabriken Bayer A.G. Elberfeld Plant, Institute of Toxicology and Industrial Hygiene; submitted by Chemagro Agricultural Division, Mōbay Chemical Corporation) (Translated from German)

(4) REVIEWED BY:

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(32B-0072c)

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(6) TOPIC: This study has information pertinent to discipline toxicology, topic acute inhalation. It relates to the Proposed Guidelines data requirement 163.81-3.

(7) CONCLUSION: It is impossible to evaluate the results of these static inhalation studies in which 5% or 10% Dipterex solutions were dispersed in a 400-liter cabinet because of a nearly complete lack of experimental detail.

CORE CLASSIFICATION: Invalid. The study was not presented with sufficient detail to evaluate the results.

(8) MATERIALS AND METHODS: In this paper, two inhalation studies were summarized.

Inhalation Study 1:

Test Substance: A 5% solution of Dipterex ("active ingredient," purity and source unspecified) in ethyl alcohol was used in this study.

Test Organism: One rabbit, one cat, one guinea pig, two rats, and four mice were used in this study. No further information was provided.

Experimental Procedure: A Flury gun was used to disperse 8 ml of the 5% solution of Dipterex ("active ingredient") in ethyl alcohol into a 400-liter cabinet in which the animals were confined. This dosage was said to be equivalent to 1 mg of Dipterex active ingredient per 1,000 ml of air. (The volatility of Dipterex was given as 0.1 mg/m^3 ,

at 20°C or 2.0 mg/m³, at 40°C.) The animals were exposed for 1 hour at approximately 25°C.

The animals were observed for clinical signs (unspecified) of intoxication during the exposure period or afterwards (exact time unspecified). No further information on the conduct of the experiment was specified.

Inhalation Study 2:

Test Substance: An aerosol containing 10% Dipterex "active ingredient" was used in this study. The purity and source of the chemical was unspecified.

Test Organism: Two rats (sex, strain, and age unspecified) and four mice (sex, strain, and age unspecified) were used. No further information was specified.

Experimental Procedure: A dose of 100 mg per 1,000 ml of air of an aerosol containing 100 mg of 10% Dipterex "active ingredient" per 1 liter of air were "shot" into a 400-liter cabinet. The dosage was said to be equivalent to 10 mg per 1,000 ml of air. (The volatility of Dipterex at 20 and 40°C is defined above.) The animals were exposed for 1 hour at approximately 25°C. The animals were observed for clinical signs (unspecified) of chemical intoxication (time unspecified).

(9) REPORTED RESULTS:

Inhalation Study 1: No "poisoning symptoms" were observed either during or after exposure.

Inhalation Study 2: "Slight symptoms" of intoxication were observed (time unspecified) but no deaths occurred. "The animals recovered quickly following termination of the test."

(10) DISCUSSION: It is not possible to evaluate the study presented because of inadequacies in reporting both experimental methods and results.

(11) TECHNICAL REVIEW TIME: 1.0 hour