

US EPA ARCHIVE DOCUMENT

DATA REVIEW NUMBER: ES-C-1

TEST: Avian acute oral

SPECIES: Mallard duck

RESULTS: LC₅₀ 10.4 g/kg

CHEMICAL: 26019 R.P., Technical grade, Lot #4CA7312900

TITLE: The determination of the acute oral LD₅₀ in Mallard ducks for 26019 R.P., Project number: CH-36, Book number: 4107, page 100.

ACCESSION NO.: 232703

STUDY DATE: May 8, 1974

RESEARCHER: C.H. McGinnis, Jr.; Research Department, Hess & Clark

REGISTRANT: Rhodia Agricultural Division

VALIDATION CATEGORY: Supplemental

CATEGORY REPAIRABILITY: Yes to Core

ABSTRACT: Birds ranging in age from 13 to 17 days were dosed in three different trials at levels from 410-10,437 mg/kg body weight. No mortality was observed at any level. Trial 1 tested levels of 410-1952 mg/kg suspended in 2% CMC suspending medium. No mortalities were reported. Trial 2 tested at level of 1800 and 4800 mg/kg using No. 0 gelatin capsules; again no mortalities were reported. Trial 3 tested 26019 R.P. at 10,437 g/kg using no. 000 gelatin capsules, and again no deaths occurred. Each trial utilized a control to which the appropriate dosing medium was administered.

Signs of toxicity were observed in Trial 1 at all dose levels within 2 hours but by 24 hours all ducks appeared normal. All birds in trial 1 and 2 (with exception of 1 bird in trial 2) remained asymptomatic.

Two major faults occurred in the study. The first being that the birds tested were young (13-17 days old) birds; the second is that the number of birds tested per dosage level was not reported. The current guidelines (Section 163.71-1, number 3 paragraph 4) require 10 or more birds to be exposed to at least 2000 mg/kg. If this condition was met the age discrepancy may be waved due to the age of the study. The number of birds tested per level will be requested. Until such time as the information is supplied and reviewed, the study will be classified as supplemental.

109801

DATA REVIEW NUMBER: (ES) VII C-2
TEST PROTOCOL: Avian Acute Oral LD₅₀ (waterfowl)
CHEMICAL TESTED: Chipco 26019 (Technical)
TEST SPECIES: Mallard
RESULT: LD₅₀ > 10,437 mg/kg
VALIDATION CATEGORY: Supplemental
CATEGORY REPAIRABILITY: No
REGISTRANT: Rhodia Inc. Agricultural Division
DATE DATA SUBMITTED: 8 May 74

ABSTRACT:

A "few" test birds showed slight ataxia and seemed lethargic at dose levels of 410-1,952 mg/kg, but all appeared normal within 24 hrs. No adverse effects were observed at treatment levels of 1,800-4,800 mg/kg. Only one duck showed ataxia at treatment levels of 10,102 to 10,437 mg/kg.

VALIDATION CATEGORY RATIONALE:

This test was classified as Supplemental because:

- (1) Test birds were less than 16 wks of age (13-17 da.).
- (2) Test birds were not observed for the minimum period of time after dosing.
- (3) No information on weight and food consumption of test birds.
- (4) Insufficient number of test birds (3) used for the two highest treatment levels.