DP Barcode: D219143 MRID No.: 435732-48

DATA EVALUATION RECORD
ACUTE CONTACT TOXICITY TEST WITH THE HONEY BEE
§ 141-1

2/22/1996

1. **CHEMICAL:** Isoxaflutole PC Code No.: 123000

2. **TEST MATERIAL:** RPA 201772 Purity: 96.8%

3. **CITATION**

Authors: Dr. Ralf Petto
Title: Laboratory testing for toxicity (acute contact and oral LD_{50}) of RPA 201772 to honeybees (*Apis mellifera L.*)
Study Completion Date: May 27, 1994
Laboratory: RCC Umweltchemie GmbH & Co KG, D-64380 RoBdorf
Sponsor: Rhone-Poulenc Agro
Laboratory Report ID: 463500
MRID No.: 435732-48
DP Barcode: D219143

4. **REVIEWED BY:** C. Renée Costello, Biologist, EFED

Signature: C. Renée Costello **Date:** 2/20/96

5. **REVIEWED BY:** F. Nicholas Mastrota, Wildlife Biologist, EFED

Signature: F. Nicholas Mastrota **Date:** 2/22/96

6. **STUDY PARAMETERS**

Test Species: *Apis mellifera L.*
Age of Test Organisms at Test Initiation: Similar age
Exposure Duration: 48 hours

7. **CONCLUSIONS:** Acute contact **LD50** >100 ug/bee
Acute oral **LD50** > 168.7 ug/bee
Toxicity category Practically nontoxic

8. **ADEQUACY OF THE STUDY**

A. **Classification:** Core

B. **Rationale:** N/A

C. **Repairability:** N/A

9. **GUIDELINE DEVIATIONS:** N/A

10. 10. **SUBMISSION PURPOSE:** Registration.

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11. MATERIALS AND METHODS

A. Test Organisms

Guideline Criteria	Reported Information
Species	Honey Bee (*Apis mellifera L.*)
Age at beginning of test Worker bees of uniform age.	Worker bees of similar age
Source	RCC
Were bees from disease-free colonies?	Not reported
Were bees kept in conditions conforming to proper cultural practices?	Yes

B. Test System

Guideline Criteria	Reported Information
Test Chambers	Stainless steel (10 x 8.5 x 5.5 cm). Front closed with removable glass sheets, bottom with perforated ventilation holes. Top had 2 openings for food, inner sides were covered with filter paper.
Temperature during exposure	26 to 28°C
Relative humidity during exposure	54 to 64%
Lighting	Darkness except for observation period.
Feeding	No food for 1-2 hours prior to testing; then *ad libitum*.

C. Test Design

Guideline Criteria	Reported Information
Nominal dosage levels tested	Contact test: 100, 50, 25, 12.5, and 6.25 ug/bee Oral test: 168.7. 68.4, 33.8, 19.4, and 11.2 ug/bee
Number of bees exposed per dosage level	30
Other experimental design information	10 bees/chamber; 3 reps
Bees randomly or impartially assigned to test groups	Not reported
Control	Solvent, untreated and positive control (dimethoate).
Solvent control	Acetone/ready to use syrup 20 µl per bee (this is in excess of the recommended amount of 5 ul per bee).
Total observation period and frequency of interim observations	48 hours total, continuous for 1st 30 minutes, then 45 and 60 minutes, 2 hours, and 4 hours 1st day, then 24 hours, 48 hours the 2nd day.

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12. REPORTED RESULTS

Guideline Criteria	Reported Information
Quality assurance and GLP compliance statements were included in the report?	Yes
Observed adverse effects on bees at respective dosages	Contact test: the only mortalities occurred in the positive control (100% after 4 hours). No behavioral anomalies. Oral test: No mortalities with the exception of the positive control (100% after 2 hours). Increased cleaning behavior at all levels until the 4 hour check, then nothing abnormal.
Control and Solvent Control Mortality	0%
Were raw data included?	Yes

Mortality and Observations

No mortalities with the exception of the positive control (contact test 100% after 4 hours; oral test 100% after 2 hours).

Agency Statistical Analysis

Visual observation.

RHÔNE-POULENC

RHÔNE-POULENC AG COMPANY

February 14, 1996

RENEE,
HOPE THIS
HELPS!
-DAN

Mr. Dan Kenny
U.S. Environmental Protection Agency
Office of Pesticide Programs
Registration Division
Crystal Mall Building 2, Room 266A
1921 Jefferson Davis Highway
Arlington, VA 22202

Dear Mr. Kenny:

Re: Technical Isoxaflutole, EPA File Symbol 264-LAA, PP# 6F4664
Honeybee Acute Toxicity Study

This letter is in response to the reviewer's question regarding the purity of the active ingredient used as test material in the isoxaflutole (RPA 201772) honeybee acute toxicity study (Study no. 463500, RCC), MRID no. 43573248. We have reviewed the study and found that there was a transcription error in reporting the purity of the test material. The purity should be reported as 968 g/kg instead of 968 kg/kg as stated in the final report. Enclosed is a copy of the certificate of analysis which corresponds to the batch of test product used in the study.

If you have any questions, please contact me at telephone number 919-549-2365.

Sincerely,

Karen S. Shearer

Karen S. Shearer
Registration Manager

kss/96/033

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RHONE-POULENC

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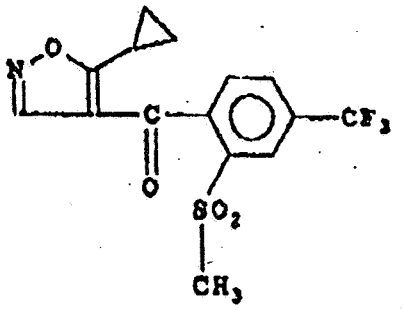
69263 LYON CEDEX 09
TEL. 72.29.15.25 - FAX 78.43.44.74
TLX 310098 F RHONE

CERTIFICATE OF ANALYSIS

Active Ingredient

Name or Code : RPA201772

Alias :



Storage Log N° : DA874

Chemical Name (IUPAC) : 5-cyclopropyl-4-(2-methylsulfonyl-4-trifluoromethylbenzoyl) isoxazole

Molecular Weight : 359.53 N° Cas :

Location of Synthesis : DECINES

Synthesis Batch N° : 39 ADM 93

Purity : 968 g/Kg Appearance : yellow powder

Date of Analysis : 25/06/93 Reference of Analysis : AMA1966

Date of Retest : 25/06/95

- Storage Conditions -	- Toxicity Classification -
Store at about ambient	Xn R20/21/22

Date of Emission : Jun 25, 1993

Certificate N° : AGMA93621

I certify that this material was analyzed in a laboratory following Good Laboratory Practice Standards.
The characterization data for this material are archived at RHONE-POULENC secteur Agro-LYON-FRANCE-

File Location : A489

Authorization : Name and Signature :

J.COUSIN

J. Cousin

END