

US EPA ARCHIVE DOCUMENT

DP Barcode : D180876  
 PC Code No : 111601  
 EEB Out : AUG 22 1994

To: Bruce Sidwell  
 Product Manager 53  
 Registration Division (H7505C)

From: Anthony F. Maciorowski, Chief  
 Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of...

Reg./File # : 111601-000707  
 Chemical Name : Oxyfluorfen  
 Type Product : herbicide  
 Product Name : Goal  
 Company Name : Rohm & Haas Company  
 Purpose : Honey bee acute tox. data review  
 (MRID 42368101)

Action Code : 606 Date Due : 9/2/92  
 Reviewer : Richard Lee

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
71-1 (A)			72-2 (A)			72-7 (A)		
71-1 (B)			72-2 (B)			72-7 (B)		
71-2 (A)			72-3 (A)			122-1 (A)		
71-2 (B)			72-3 (B)			122-1 (B)		
71-3			72-3 (C)			122-2		
71-4 (A)			72-3 (D)			123-1 (A)		
71-4 (B)			72-3 (E)			123-1 (B)		
71-5 (A)			72-3 (F)			123-2		
71-5 (B)			72-4 (A)			124-1		
72-1 (A)			72-4 (B)			124-2		
72-1 (B)			72-5			141-1	42368101	Y
72-1 (C)			72-6			141-2		
72-1 (D)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur  
 P=Partial (Study partially fulfilled Guideline but additional information is needed)  
 S=Supplemental (Study provided useful information but Guideline was

①

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 22 1994

MEMORANDUM

To: Bruce Sidwell, PM 72  
Registration Division (H7505C)

From: Anthony F. Maciorowski, Chief  
Ecological Effects Branch  
Environmental Fate and Effects Division (H7507C)

Subject: Review of oxyfluorfen honey bee acute contact toxicity study  
(D180876)

As part of oxyfluorfen reregistration requirements, Rohm & Haas Company has submitted the following honey bee acute contact toxicity study:

Atkins, E. L. 1992. Bee Adult Toxicity Dusting Test Evaluating the Comparative Acute Contact and Stomach Poison Toxicity of Goal Herbicide Technical. Prepared by Dept. of Entomology, Univ. of California, Riverside, CA. Submitted by Rhom and Haas Company, Spring House PA, MRID 423681-01.

Summary of Study

Guide. No.	Test Species	Test Type	% A.I.	Test Results	Study Status	MRID No.
141-1	Honey bee <u>Apis mellifera</u>	Bee acute cont. test	71.4	LD50 >100 µg/bee	Core	423681-01

The study is scientifically sound and meets the 141-1 guideline requirements for a honey bee acute contact toxicity test. The compound is classified as nontoxic to honey bee with the LD50 of greater than 100 µg/bee.

If you have any questions please contact Richard Lee (305-5577) or Ann Stavola (305-5354)

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CONCURRENCES

SYMBOL	SURNAME	DATE				
H7507C	Lee	8/10/94	Stavola	8/22/94	Maciorowski	8/22/94

DP BARCODE: D180876 MKID 423681

Richard

REREG CASE # 2490 ✓

CASE: 816380  
SUBMISSION: S422271

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 07/23/92  
Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REREGISTRATION ACTION: 606 DATA PACKAGE REVIEW 100.00 %  
CHEMICALS: 111601 Oxyfluorfen (ANSI)

ID#: 111601-000707  
COMPANY: 000707 ROHM & HAAS COMPANY  
PRODUCT MANAGER: 53 BRUCE SIDWELL 703-308-8078 ROOM: CS1 3E3  
PM TEAM REVIEWER: MARK WILHITE 703-308-8586 ROOM: CS1 3RD FL  
RECEIVED DATE: 06/24/92 DUE OUT DATE: 09/22/92

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 180876 EXPEDITE: N DATE SENT: 07/23/92 DATE RET.: / /  
CHEMICAL: 111601 Oxyfluorfen (ANSI)  
DP TYPE: 999 Miscellaneous Data Package  
ADMIN DUE DATE: 10/01/92 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	07/24/92	/ /
BRAN: EEB	07/24/92	AUG 22 1994
SECT: f	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Study for gdlN 141-1 Acute tox honeybee. Please review. MRID 423681c

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
180875	TB-2	07/23/92	10/01/92	Y	N	N



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

AUG 22 1994

MEMORANDUM

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

To: Bruce Sidwell, PM 72  
Registration Division (H7505C)

From: Anthony F. Maciorowski, Chief  
Ecological Effects Branch  
Environmental Fate and Effects Division (H7507C) *Douglas Urban* 8/22/94

Subject: Review of oxyfluorfen honey bee acute contact toxicity study  
(D180876)

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Summary of Study

Guide. No.	Test Species	Test Type	% A.I.	Test Results	Study Status	MRID No.
141-1	Honey bee <u>Apis mellifera</u>	Bee acute cont. test	71.4	LD50 >100 µg/bee	Core	423681-01

The study is scientifically sound and meets the 141-1 guideline requirements for a honey bee acute contact toxicity test. The compound is classified as nontoxic to honey bee with the LD50 of greater than 100 µg/bee.

If you have any questions please contact Richard Lee (305-5577) or Ann Stavola (305-5354),

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contains at least 50% recycled fiber

DATA EVALUATION RECORD

1. Chemical: Oxyfluorfen (Goal® Herbicide)
2. Test Material: Technical, 71.4 % ai
3. Study Type: Honey bee acute contact LD50

Species tested: Apis mellifera

4. Study ID: Atkins, E.L. 1992. Bee Adult Toxicity Dusting Test Evaluating the Comparative Acute Contact and Stomach Poison Toxicity of Goal Herbicide Technical. Prepared by Dept. of Entomology, Univ. of California, Riverside, CA. Submitted by Rohm and Haas Company, Spring House PA, MRID 423681-01.

5. Reviewed By:

Richard M. Lee  
Entomologist  
EEB/EFED

Signature: Richard M. Lee  
Date: 8/10/94

6. Approved By

Ann Stavola, Sec. Head  
Section 5  
EEB/EFED

Signature: Ann Stavola  
Date: 8/22/94

7. Conclusions:

This study is scientifically sound, and shows oxyfluorfen to be nontoxic to honey bees at the highest dosage tested (100 µg/bee). In an acute contact test, the LD50 was determined to be > 100 micrograms per bee. This study fulfills the guideline requirement for an acute contact toxicity test on honey bees.

8. Recommendations: N/A

9. Background: This study was submitted in support of reregistration.

10. Discussion of Individual Tests: N/A

11. Materials and Methods:

A. Test animals were middle aged (14 to 28 days old) foraging worker bees obtained from research colonies.

Test System : Pesticide was blended with a nontoxic dust diluent, attayclay. Dust mixture was distributed over bees in cages using a bell jar duster. Treated bees were transferred into clean holding cages and provided with 50%

honey/water solution.

B. Design: Approximately 100 bees per dose level and control, divided into three reps. Three dosages (ca. 33, 67, and 100 µg/bee) of the test chemical were tested.

C. Statistics: Due to very low mortality at all levels, no analysis was performed.

12. Reported Results:

The study authors found that oxyfluorfen was nontoxic to honey bees (acute contact LD50 > 100 µg per bee, see attached honey bee mortality table).

13. Study Authors' Conclusions/ OA Measures

96-hr. LD50 > 100 µg per bee (nontoxic).

14. Reviewer's Discussion and Interpretation of the Study

A. Test Procedures: Procedures were in accordance with protocols recommended in the guidelines. There were no problems in this regard.

B. Statistical Analysis: Due to very low mortality, no analysis was performed.

C. Discussion/Results: Oxyfluorfen is essentially nontoxic to honey bees exposed to direct application.

D. Adequacy of Study:

1. Classification: Core

2. Rationale: Guidelines protocol

3. Reparability: N/A

15. Completion of One-Liner for Study: N/A

16. CBI Appendix: N/A

RIN 0637-00

EFED Review - Oxyfluorfen

Page 7 is not included in this copy.

Pages      through      are not included.

The material not included contains the following type of information:

- Identity of product inert ingredients.
- Identity of product impurities.
- Description of the product manufacturing process.
- Description of quality control procedures.
- Identity of the source of product ingredients.
- Sales or other commercial/financial information.
- A draft product label.
- The product confidential statement of formula.
- Information about a pending registration action.
- FIFRA registration data.
- The document is a duplicate of page(s)     .
- The document is not responsive to the request.

The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.