

DP Barcode : D177576, D179554
 PC Code No : 028201
 EEB Out : FEB 4 1994

To: Walter Waldrop, PM-71
 Product Manager
 Special Review and Reregistration Division (H7508W)

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

Attached, please find the EEB review of...

Reg./File # : 818688, S419934, S416977
 Chemical Name : Propanil
 Type Product : herbicide
 Product Name :
 Company Name : Propanil Task Force
 Purpose : Review *Selenastrum capricornutum* data and respond to registrant rebuttal of previous data reviews of aquatic plant studies (123-2)

Action Code : 629, 627 Date Due : 8/28/92
 Reviewer : Mike Davy Date In EEB: 6/23/92

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	41777301	Y
71-5(B)			72-4(A)			124-1		
72-1(A)			72-4(B)			124-2		
72-1(B)			72-5			141-1		
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 not satisfied)

N=Unacceptable (Study was rejected)/Nonconcur

DP BARCODE: D177576

REREG CASE # 0226

CASE: 818688
SUBMISSION: S416977

DATA PACKAGE RECORD
BEAN SHEET

DATE: 12/10/93
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REREGISTRATION ACTION: 627 GENERIC DATA SUBMISSION
CHEMICALS: 028201 3',4'-Dichloropropionanilide

100.00 %

ID#: 028201

COMPANY:

PRODUCT MANAGER: 71 WALTER WALDROP

703-308-8062

ROOM: CS1

3B3

PM TEAM REVIEWER: TERRI STOWE

703-305-7381

ROOM: CM2

261

RECEIVED DATE: 04/29/92

DUE OUT DATE: 08/27/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 177576

EXPEDITE: Y

DATE SENT: 04/30/92

DATE RET.: / /

CHEMICAL: 028201 3',4'-Dichloropropionanilide

DP TYPE: 001 Submission Related Data Package

CSF: N

LABEL: N

ASSIGNED TO

DATE IN

DATE OUT

ADMIN DUE DATE: 08/28/92

DIV : EFED

04/30/92

/ /

NEGOT DATE: / /

BRAN: EEB

/ /

/ /

PROJ DATE: / /

SECT:

/ /

/ /

REVR :

/ /

/ /

CONTR:

/ /

/ /

* * * DATA REVIEW INSTRUCTIONS * * *

ATTENTION: MIKE DAVY - RESUBMISSION OF DATA FOR GLN 123-2
FRESHWATER GREEN ALGA (MRID 41777301)

The Propanil Task Force has responded to your request for a reformatted study for the freshwater green alga (MRID 41777301) by rechecking their original copy. According to the Propanil Task Force, they could not find the "interspersed" data that you referenced in your review dated 03/24/92 so they resubmitted the original study. Since there wasn't a DER for this study, they could not find where the interspersed data were located. Please rereview the data for this study and send a copy of the review to:

Terri Stowe

SRRD/RB (H7508W)

Crystal Station I - 3rd fl. - 33D5

THANK YOU!!!

For the attached reregistration case, please identify all applicable data requirements and note those for which adequate data have not been submitted to the Agency.

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package.

2

DP BARCODE: D177576

REREG CASE # 0226

CASE: 818688
SUBMISSION: S416977

DATA PACKAGE RECORD
BEAN SHEET

DATE: 12/10/93
Page 1 of 1

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
-------	----------------	----------	----------	-----	-----	-------



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

FEB 4 1994

MEMORANDUM

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Response to Propanil Non-target Aquatic Plant Testing (D179554 and D177576)

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

TO: Walter Waldrop, PM-71
Special Review and Reregistration Division (H7508W)

The Ecological Effects Branch has reviewed the Propanil Task Force rebuttal for two 123-2 Aquatic Growth studies, *Lemna gibba* (MRID# 4177201) and *Anabaena flos-aquae* (MRID# 41776701). In addition, 123-2 Aquatic Plant Growth study for *Selenastrum capricornutum* (MRID# 41777301) was submitted for review. These actions are under D177576 and D179554.

Anabaena flos-aquae 123-2 Study (MRID# 41776701)

SEP recommends the light intensity for this species to be at 2000 lux. Registrant has indicated that lower light intensity of 1200-1500 lux does not significantly inhibit the growth of this species of algae since optimal conditions may be at the lower light intensity since the control culture increased by 100-fold during the five day exposure which is normal. Another test result not reported indicated that at higher light intensity, 2000-3000 lux, the results are similar to the reported test.

In light of the additional data from the unreported study and the control culture has adequate growth, this study is upgraded to core.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Lemna gibba 123-2 Study (MRID# 41777201)

Registrant has indicated that the light intensity for *Lemna gibba* fell to 1500 lux for one day (Day 4) and remain 5000 lux for the remainder of the time. The frond production in the controls increased to more than 10 times from Day 1 to Day 14. This would appear to be adequate growth for dose response regime.

The registrant has indicated that there was no algal contamination in the test. The remark in the report of algae being the possible cause of propanil decline include uptake or sorption by algae at 72 hours has been revised to show *Lemna gibba* instead of algae. The EEB accepts the explanation. This study is upgraded to core.

Data Evaluation Reports

123-2 Aquatic Plant Growth, *Anabaena flos-aquae*, Mrid# 41777301 has been submitted for evaluation.

•**CITATION:** Giddings, J.M. 1990. Propanil - Toxicity to the Freshwater Green Alga *Selenastrum capricornutum*. Report No. 90-3-3253. Conducted by Springborn Laboratories, Inc., Wareham, MA. Submitted by The Propanil Task Force, c/o John M. Wise, Liberty, MO. EPA MRID No. 417773-01.

This study is scientifically sound and meets the requirements for a Tier 2 aquatic plant growth and reproduction study. Based on mean measured concentrations, the NOEC, LOEC, and EC₅₀ for *S. capricornutum* exposed to propanil were 0.006, 0.011, and 0.029 mg ai/l, respectively.

Data Requirements

The following data requirements are needed for EEB to complete a risk assessment and are outstanding:

123-1 (a) Seed Germination and Seedling Emergence (Tier 2)

123-1(b) Vegetative Vigor (Tier 2)

201-1 and 201-2 Aerial Droplet Size and Aerial Field Drift
The drift studies should reviewed by EFGWB.

If you have any questions, please do not hesitate to contact Mike Davy at 305-7081.