



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

FEB 15 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Protocol on Non-Guideline Seedling Emergence Study For  
Flumetsulam. DPBarcode: D197746

FROM: *for* Anthony F. Maciorowski, Chief  
Ecological Effects Branch  
Environmental Fate and Effects Division H7507C *2/10/94*

TO: Joanne Miller, PM-23  
Herbicide Fungicide Branch  
Registration Division (7505C)

The EEB has reviewed the non-guideline protocol for seedling emergence study for Flumetsulam herbicide from Dow-Elanco. This action is covered under DPBarcode D197746.

The non-guideline study is one of the conditions for the conditional registration of flumetsulam.

The protocol has been found to be acceptable for the non-guideline seedling emergence study for flumetsulam. The only addition requested as discussed on the telephone between Dr. Bob Ehr of Dow-Elanco and Mike Davy (EEB) was the need to have some data on the phytotoxic symptoms on the plants during the study. Dr. Ehr has agreed to this.

If you have any questions, please do not hesitate to contact Mike Davy.



DP Barcode : D197746  
 PC Code No : 122016  
 EEB Out :

FEB 15 1994

To: Joanne Miller  
 Product Manager 23  
 Registration Division H7505C

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

Attached, please find the EEB review of...

Reg./File # : 062719-00223  
 Chemical Name : Flumetsulam  
 Type Product : Herbicide  
 Product Name : Broadstrike  
 Company Name : Dow-Elanco  
 Purpose : Review protocol for non-guideline study

Action Code : 352 Date Due :  
 Reviewer : Mike Davy Date In EEB: 12/20/93

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		
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: D197746

CASE: 031451  
SUBMISSION: S455416

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 12/20/93  
Page 1 of 1

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

CASE TYPE: REGISTRATION ACTION: 352 PROP TEST PROT-AMND  
CHEMICALS: 129016 Flumetsulam

98.0000%

ID#: 062719-00223 dowelanco/de-498 98% technical manuf. use product  
COMPANY: 062719 DOWELANCO  
PRODUCT MANAGER: 23 JOANNE MILLER 703-305-7830 ROOM: CM2 237  
PM TEAM REVIEWER: STEVEN ROBBINS 703-305-7546 ROOM: CM2 263  
RECEIVED DATE: 12/17/93 DUE OUT DATE: 04/06/94

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

DP BARCODE: 197746 EXPEDITE: N DATE SENT: 12/20/93 DATE RET.: / /  
CHEMICAL: 129016 Flumetsulam

DP TYPE: 001 Submission Related Data Package

CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 02/28/94
DIV : EFED	12/20/93	/ /	NEGOT DATE: 02/28/94
BRAN: EEB	12/21/93	/ /	PROJ DATE: / /
SECT:	/ /	/ /	
REVR :	/ /	/ /	
CONTR:	/ /	/ /	

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

Please review this protocol for a non-guideline seedling emergence study.

\*\*\* DATA PACKAGE EVALUATION \*\*\*

No evaluation is written for this data package.

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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DP BARCODE: D197746

CASE: 031451  
SUBMISSION: S455416

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 02/02/94  
Page 1 of 1

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

CASE TYPE: REGISTRATION ACTION: 352 PROP TEST PROT-AMND  
RANKING : 10 POINTS (L)  
CHEMICALS: 129016 Flumetsulam

98.0000%

ID#: 062719-00223 dowelanco/de-498 98% technical manuf. use product  
COMPANY: 062719 DOWELANCO  
PRODUCT MANAGER: 23 JOANNE MILLER 703-305-7830 ROOM: CM2 237  
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ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 02/28/94
DIV : EFED	12/20/93	/ /	NEGOT DATE: / /
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\*\*\* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \*\*\*

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

This is a copy of the first  
Bean Sheet sent to you.

Steve

Mike Davy  
Steve Robbins

January 31, 1994

cc: Denny Lade

**RE: Draft protocol for non-guideline seedling emergence study for flumetsulam.**

Following our last telephone conversation, I have incorporated many of Mike's helpful suggestions for the non-guideline seedling emergence protocol with flumetsulam. All changes in the protocol are underlined so you can find them easily. We are proposing to substitute *Geum* in place of *Potentilla* as a representative of the *Rosaceae*. In preliminary tests with *Potentilla*, we found that germination was good but also very slow. We have a species of *Geum* which germinates rapidly. I hope we can agree on the final details within a week so that work may begin in February. Please telephone me directly at (317) 337-3008 with your comments or FAX them to (317) 337-3265.

Regards,



Bob Ehr  
Weed Management Research  
DowElanco

RIW 1948-94

FLUMETSULAM REVIEWS (129016)

Page      is not included in this copy.

Pages 6 through 9 are not included.

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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.

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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.

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