

DP Barcode : D185714
 PC Code No : 129016
 EEB Out : JUN 7 1993

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 # : 62719
 Chemical Name : FLUMETSULAM
 Type Product :
 Product Name :
 Company Name : DOWELANCO
 Purpose : REVIEW STUDY SUBMITTED TO SUPPORT REGISTRATION

Action Code : 101 Date Due :
 Reviewer : MIKE DAVY Date In EEB: 4-6-93

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)	42573901	S
71-4(B)			72-3(E)			123-1(B)	42573901	S
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



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

JUN 7 1993

MEMORANDUM

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Flumetsulam Herbicide: Terrestrial Plant Study
DP Barcode D185714

FROM: Anthony F. Maciorowski, Chief *A. F. Maciorowski*
Ecological Effects Branch
Environmental Fate and Effects Branch (H7505C)

TO: Joanne Miller, PM-23
Registration Division (H7505C)

The Ecological Effects Branch has completed a review of a study on non-target terrestrial plants (123-1). This study was submitted under DP Barcode D185714 for registration under section 3.

The results of the study are as follows:

CITATION: Feutz, E. 1992. Evaluating the Effects of DE-498 on the Germination, Emergence, and Vegetative Vigor of Non-Target Terrestrial Plants. Laboratory Project ID No. 40291. Conducted by ABC Laboratories, Inc., Columbia, MO. Submitted by DowElanco, Indianapolis, IN. EPA MRID No. 425739-01.

CONCLUSIONS: Germination, Seedling Emergence, Vegetative Vigor: the results for all the species tested except rape are scientifically sound but do not meet the guideline requirements for Tier 2 non-target plant phytotoxicity studies. A negative control was not included in the study design. However, tests conducted to examine the effect of the solvent systems used on plant growth in comparison to a negative control could upgrade the study. The rape was invalid because three other fungicides were applied to rape. Since there are more than 10 species left without rape, rape does not need to be redone.

Germination: The EC₂₅ and EC₅₀ values for the most sensitive species (sugar beet) are 0.0060 lb ai/A and 0.0271 lb ai/A, respectively for the root length parameter. EC₂₅ values could not be determined for the monocots due to lack of sensitivity.



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Aerial Application

Per conversation between Joanne Miller and Mike Davy, the risk assessment for aerial application of flumetsulam will not be done during this review. Therefore, EEB will not determine whether DE-498 (flumetsulam) can be aeriually applied in this review. Risk assessment for aeriually applied flumetsulam will be done in the next review (D189826). EEB does not have drift data. Therefore, the assessment will assume 5% drift.

If you have questions regarding this review, please contact Mike Davy at 305-7081.