

US EPA ARCHIVE DOCUMENT

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DP Barcode : D182359
PC Code No : 036101
EEB Out :

NOV 12 1992

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

From: Douglas J. Urban, Acting Chief
Ecological Effects Branch/EFED (H7507C)

Attached, please find the EEB review of...

Reg./File # : _____
Chemical Name : Trifluralin
Type Product : Herbicide
Product Name : Treflan
Company Name : DowElanco
Purpose : Review waiver request for 72-3a&b (Cited EPA generated data from Research Labs).
Action Code : 614 Date Due : 10/29/92, Expedite
Reviewer : Dana Lateulere

*Sheepshead
Munroe*

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)	424499-01	Y	122-1(A)		
71-2(B)			72-3(B)	424499-02	Y	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



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

NOV 12 1992

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: Waiver Request for Trifluralin, Guideline #'s 72-3 A & B.
FROM: Douglas Urban, Acting Chief
Ecological Effects Branch
Environmental Fate and Effects Division
Douglas Urban
11/6/92
TO: Walter Waldrop, PM 71
Special Review and Reregistration Division

EEB has completed a review of the waiver request submitted by DowElanco for Trifluralin. EEB concurs that the data submitted will satisfy the Guideline requirements for #72-3A, Estuarine/Marine Fish Toxicity (Sheepshead minnow), and 72-3B, Estuarine/Marine Mollusc Toxicity (48 Hour Embryo Larvae Study).

#72-3A - Parrish, P. et. al. "Chronic Toxicity of Chlordane, Trifluralin, and Pentachlorophenol to Sheepshead Minnows". January 1978. Performing Lab: EG&G Bionomics Marine Research Laboratory, Route 6, Box 1002, Pensacola, FL 32507. Sponsored by the Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Gulf Breeze, FL 32561. MRID No. 424499-01. $LC_{50} = 190 \text{ ppb}$

#72-3B - Liu, D. and J. Lee. "Toxicity of Selected Pesticides to the Bay Mussel (Mytilus edilius)". May 1975. Performing Lab: Stanford Research Institute, Menlo Park, CA 94205. Sponsored by the National Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Corvallis, OR 87330. MRID No. 424499-02. ($EC_{50} = 240 \text{ ppb survival}$) (shell growth inhibition at 96 ppb)

The following data requirements are outstanding:

- #72-7A Special Circumstance Study, Fish Vertebral Lesion*
- #72-7B Actual Field Testing (pending review of 72-7A)*
- #123-1 Tier 2 Seed Germination (cabbage and onion only)
Tier 2 Seedling Emergence
- #123-2 Tier 2 Aquatic Plant Growth and Reproduction
The following species:
 - Lemna gibba
 - Skeletonema costatum
 - Anabaena flos-aquae
 - a freshwater diatom
- #201-1 Droplet Size Spectrum
- #201-2 Drift Field Evaluation



*Questions regarding these outstanding requirements, please refer to EEB's review of DP Barcode #D178396 (9/22/92) for an in-depth explanation.

Questions concerning this review, please contact Dana Lateulere - 308-2856.