

254213
RECORD NO.

013803
SHAUGHNESSEY NO.

REVIEW NO.

EEB REVIEW

DATE: IN 11-07-89 OUT _____

FILE OR REG. NO. 9779-133

PETITION OR EXP. NO. _____

DATE OF SUBMISSION 06-01-89

DATE RECEIVED BY EFED 10-30-89

RD REQUESTED COMPLETION DATE 11-27-89

EEB ESTIMATED COMPLETION DATE 11-27-89

RD ACTION CODE/TYPE OF REVIEW 315

TYPE PRODUCT(S) herbicide

DATA ACCESSION NOS. _____

PRODUCT MANAGER NO. J. Miller (23)

PRODUCT NAME(S) 912 Herbicide

COMPANY NAME Riverside/Terra Corporation

SUBMISSION PURPOSE Proposed federal registration of forest
preparation use (from present registered
Alabama SLN)

SHAUGHNESSEY NO.	CHEMICAL AND FORMULATION	% AI
_____	<u>MSMA</u>	<u>48.0</u>
_____	_____	_____



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

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

SUBJECT: EEB Review Of Proposed Addition Of Forestry
Site To Riverside/Terra Corp. MSMA label.

FROM: James W. Akerman, Branch Chief
Ecological Effects Branch
Environmental Fate and Effects Division (H7507C)

TO: Joanne Miller (PM-23)
Fungicide/Herbicide Branch
Registration Division (H7505C)

The Ecological Effects Branch (EEB) has reviewed the request to register MSMA for forest site preparation where loblolly, shortleaf, slash, and longleaf pines are grown. The state of Alabama granted a 24C for this use in 1980 (SLN AL800022).

The 6 core studies required for Section 3 registration (40 CFR, 158.145) were not found in EEB files:

- 71-1 Avian Single Dose Oral LD50 (Mallard or Bobwhite quail)
- 71-2 Avian Dietary LC50 (waterfowl-Mallard)
- 71-2 Avian Dietary LC50 (upland game bird- Bobwhite quail)
- 72-1 Acute Toxicity to Freshwater Fish (Rainbow Trout)
- 72-1 Acute Toxicity to Freshwater Fish (Bluegill Sunfish)
- 72-2 Acute Toxicity to Aquatic Invertebrates

Prior to consideration for Section 3 registration, all studies must be submitted or referenced.

In addition to the 6 core studies, the following tests are required:

- Non-target Plant Tier II, 123-1 Seed Germination, Seedling Emergence, and Vegetative Vigor.
- Non-target Plant Tier II, 123-2 Aquatic Plant Growth for the following species:
 - Lemna gibba (duckweed)
 - Skeketonema costatum (marine diatom)
 - Anabaena flos-aquae (blue-green alga)
 - Selenastrum capricornutum (freshwater green alga)
 - Unspecified species (freshwater diatom)
- Drift data, 201-1.
- Drift data, 201-2.

- 72-3 Acute Estuarine/marine Toxicity Tests:
 - 96 hour estuarine fish LC50
 - 96 hour estuarine shrimp LC50
 - 48 hour mollusk embryo larvae EC50
- Endangered Species Considerations- MSMA will be used as a general vegetation killer (annual and perennial forbs and grasses, perennial woody shrubs, hardwood trees). Because of this broad activity on many diverse plant species, the substantial increase in acres to be treated (beyond the Alabama SLN acres), and the potential for movement off-target, the registrant must show that no threatened/endangered plant species will be adversely affected by this use. The 300 foot buffer zone is unacceptable. Drift statements must be supported by drift data.


 United States Environmental Protection Agency
 Office of Pesticide Programs
 Washington, DC 20460

Data Review Record

 Confidential Business Information - Does not contain
 National Security Information (E.O. 12065)

Pack Number

Date Received

49791

EFED

10-30-89

1. Product Name

9/12 Herbicide

Chemical Name

MSMA

2. Identifying Number	3. Record Number	4. Action Code	5. MRID/ Accession Number	6. Study Guideline or Narrative
9779-133	254,213	315	—	Accessed for data

7. Reference No.	8. Date Rec'd (EPA)	9. Prod/Review Mgr/DCI	10. PM/RM Team No.	11. Date to HED/ EFED/RD/BEAD	12. Proj Return Date	13. Date Returned to RD/SRRD
103	10/02/89	JIM/JEM	23	10/27/89	11/27/89	

Instructions

The Company proposes to add forest use to their label. Please indicate whether additional data will be necessary to satisfy ecological concerns.

Thanks.

This Section Applies to Review of Studies Only

14. Check Applicable Box	15. No. of Individual Studies Submitted
<input type="checkbox"/> Adverse 6(a)(2) Data (405) <input type="checkbox"/> Special Review Data (870)	
<input type="checkbox"/> Generic Data (Reregistration) (660) <input type="checkbox"/> Product Specific Data (Reregistration) (655)	
16. Have any of the above studies (in whole or in part) been previously submitted for review?	17. Related Actions
<input type="checkbox"/> Yes (Please identify the study(ies)) <input type="checkbox"/> No	

18.	To	Type of Review	19. Reviews Also Sent to	20. Data Review Criteria
HED		Science Analysis & Coordination	<input type="checkbox"/> SAC <input type="checkbox"/> PC	A. Policy Note No. 31
		Toxicology/HFA	<input type="checkbox"/> TOX/HFA <input type="checkbox"/> PL	
		Toxicology/IR	<input type="checkbox"/> TOX/IR	
		Dietary Exposure	<input type="checkbox"/> DEB <input type="checkbox"/> EA	
		Nondietary Exposure	<input type="checkbox"/> NDE <input type="checkbox"/> AC	
EFED	X	Ecological Effects	<input type="checkbox"/> EEB <input type="checkbox"/> BA	1 = data which meet 6(a)(2) or meet 3(c)(2)(B) flagging criteria 2 = data of particular concern from registration standard 3 = data necessary to determine tiered testing requirements
		Environmental Fate & Groundwater	<input type="checkbox"/> EFGWB	
SRRD		Special Review	<input type="checkbox"/> SR	
		Reregistration	<input type="checkbox"/> RER	B. Section 18
		Generic Chemical Support	<input type="checkbox"/> GSC	
RD		Insecticide-Rodenticide	<input type="checkbox"/> IR	
		Fungicide-Herbicide	<input type="checkbox"/> FH	C. Inert Ingredients
		Antimicrobial	<input type="checkbox"/> AM	
		Product Chemistry		
		Precautionary Labeling		1 = data in support of continued use of List 1 inert
BEAD		Economic Analysis		
		Analytical Chemistry		
		Biological Analysis		

☐ Confidential Statement of Formula (EPA Form 8570-4) Attached (Trade Secrets)

☒ Label Attached

MSMA science review

Page _____ is not included in this copy.

Pages 5 through 9 are not included in this copy.

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 product 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.
