



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

PM-14  
Robt. Forrest  
Room 219 6-22-94  
43250301

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

MEMORANDUM

Subject: EPA Reg. No.: 9779-206

From: Mark J. Perry, Biologist  
Precautionary Review Section  
Registration Support Branch  
Registration Division (7505W)

MJP  
6-22-94

To: Rob Forrest, PM 14  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Applicant: Riverside/Terra Corp.  
600 Fourth St.  
P.O. Box 6000  
Sioux City, Iowa 51102

FORMULATION FROM LABEL:

	% by wt.
<u>Active Ingredient(s):</u> Dimethoate (o,o-dimethyl S-[N-(methylcarbamoyl)methyl] phosphorodithioate ...	31.0
<u>Inert Ingredient(s):</u> .....	69.0
Total:	100%



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## BACKGROUND

Riverside/Terra Corp. submitted acute oral, acute dermal, acute inhalation, dermal irritation and dermal sensitization studies at the request of the Agency. The Agency request is in response to adverse effect eye irritation data previously submitted for this product. The product, Dimate 2.67, is an agricultural use insecticide with 31.0% dimethoate as the active ingredient. All five studies were performed by Stillmeadow, Inc. and the MRID numbers are 432503-01 through 432503-05.

## RECOMMENDATION

1. Acute Oral; III/Guideline
2. Acute Dermal; III/Minimum

- The study does not clearly state that the test material was applied to approximately 10% of the test animal surface area. The study report does describe the clipped area, but an approximation of the actual exposure area in reference to total body surface is also needed.

3. Acute Inhalation; III/Guideline
4. Dermal Irritation; IV/Guideline
5. Dermal Sensitization; Non-sensitizer/Guideline

## LABELING

1. The appropriate signal word is "caution."
2. The statements of practical treatment should read as follows:  
  
IF SWALLOWED: Call a physician or poison control center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.  
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.

3. The precautionary labeling should read as follows:

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

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DATA REVIEW FOR SKIN IRRITATION TESTING (\$81-5)

Product Manager:14  
MRID No.:432503-01  
Testing Laboratory:Stillmeadow  
Author(s):J. Kuhn  
Species:Rabbit

Reviewer:M. Perry  
Report Date:11/16/93  
Report No.:0563-93

Age:Young adult  
Sex:Three male, three female  
Weight: --  
Dosage:0.5 ml  
Test Material:Dimate 2.67  
Quality Assurance (40 CFR §160.12):Present

Summary:

1. The Primary Irritation Index= --
2. Toxicity Category:IV
3. Classification:Guideline

Procedure: A 0.5 ml dose of the liquid test material was applied to the clipped exposure sites under a 2.5 x 2.5 cm gauze patch and occluded for a period of 4 hours. Excess test material was removed following the exposure period. Dermal evaluations were performed at 3/4, 24, 48 and 72 hours.

Results: Grade 2 erythema was present in some animals at 3/4 and 24 hours. All irritation cleared by 72 hours.