

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

24 NOV 1992

Russell F. Sawyer  
Riverdale Chemical Company  
425 West 194th Street  
Glenwood, IL 60425-1584

Dear Mr. Sawyer:

Subject: Label Amendment - 2,4-D Use in Reduced or No-Tillage Soybeans (Pre-plant Only)  
Riverdale Solution Emulsible  
EPA Registration No. 228-126  
Your Submission Dated November 4, 1992

The Agency is conditionally approving an amendment to the registration of the above-referenced product under the authority of section 3(c)(7)(B) of the Federal Insecticide, Fungicide Act (FIFRA). This amendment allows use of the subject product on reduced or no-tillage soybeans (pre-plant only) with a maximum permissible level for residues of the herbicide in or on soybeans of 0.1 ppm. This amendment will expire automatically on December 31, 1995. In addition, during the period that this amendment is effective, it will be subject to the conditions listed below.

1. To maintain your registration, the following data must be submitted to the Agency by the Industry Task Force II for 2,4-D Research Data:

a. Field residue trials, using proposed and exaggerated rates with the ester formulation, conducted in seven (7) states of TN, AR, IN, IL, MN, MO and MS or LA. - Due Date: January 31, 1994

b. Bridging studies with the ester and amine formulations conducted in three (3) locations, likely IL, MN, and MS or LA. - Due Date: January 31, 1994

c. Plant metabolism studies, in three (3) representative, dissimilar crops - Due Date: January 31, 1994

d. Animal metabolism studies (poultry and ruminant) as outlined in the Residue Chemistry Chapter of 2,4-D Registration Standard - Due Date: January 31, 1994

CONCURRENCES

SYMBOL	NH7505C						
SURNAME	D. KENNY						
DATE	11/20/92						

e. Adequate storage stability data for all analyses -  
Due Date: January 31, 1994

2. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

3. Submit production information (pounds or gallons produced) for the product for the fiscal year in which this use is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The product information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

Environmental Protection Agency  
Registration Division (H7505C)  
Registration Support Branch  
401 M Street, S.W.  
Washington, DC 20460

4. Make the following label change before releasing the product for shipment:

Add the restriction "Livestock should be restricted from feeding/grazing of treated cover crops."

5. Submit one (1) copy of your final printed labeling before you release the product for shipment.

You should note that if you fail to satisfy any of the conditions imposed on this registration, e.g., you fail to submit the required data by the specified deadlines or the data submitted were not generated in accordance with the applicable test guidelines, EPA may issue a notice to cancel this amendment under FIFRA section 6(e).

You should also note that, regardless of whether you satisfy all applicable conditions, this conditional registration will expire automatically on December 31, 1995. Sale and distribution of the subject product bearing labeling for this use on reduced or no-tillage soybeans (pre-plant only) after December 31, 1995 will be illegal. The tolerance authorizing residues of the subject product will also expire automatically, two (2) years after the date published in the FEDERAL REGISTER. After that date, sale or distribution of food in interstate commerce containing any residue of the subject product will be a violation of the Federal Food, Drug, and Cosmetic Act.

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Finally, once the required data have been submitted and a permanent tolerance established, EPA will entertain an application to amend the registration of the subject product without any special limitations on the duration of the amendment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide  
Registration Division (H7505C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

Supplemental Labeling

RIVERDALE

SOLUTION™ EMULSIBLE

FOR USE IN CROP RESIDUE MANAGEMENT SYSTEMS  
IN SOYBEANS (Preplant only)

GENERAL INFORMATION

Riverdale SOLUTION™ EMULSIBLE is a herbicide that provides control of many emerged susceptible annual and perennial broadleaf weeds. Riverdale SOLUTION™ EMULSIBLE may be applied prior to planting soybeans to provide foliar burndown control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this label. Riverdale SOLUTION™ EMULSIBLE should only be applied preplant to soybeans in situations such as reduced tillage production systems, where emerged weeds are present. Apply only according to the application instructions given below. Do not use any tillage operations between application of Riverdale SOLUTION™ EMULSIBLE and planting soybeans.

MIXING INSTRUCTIONS

Compatible crop oil concentrates, agricultural surfactants and fluid fertilizer approved for use on growing crops may increase the herbicidal effectiveness of 2,4-D on certain weeds and may be added to the spray tank. Read and follow all directions and precautions on this label and on all labels of adjuvants or fertilizers mixed with this product.

APPLICATION PROCEDURES

Apply using air or ground equipment in sufficient gallonage to obtain adequate coverage of weeds. Use 2 or more gallons of water per acre in aerial equipment and 10 or more gallons of water per acre in ground equipment.

APPLICATION TIMING AND USE RATES

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2,4-D Formulation Used	Maximum Rate per acre <small>Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, the pesticide registered under FIFRA, Reg. No. 228-100</small>	When to Apply Days prior to planting soybeans
SOLUTION™ EMULSIBLE	5/8 pint (10.0 fl.oz.) (0.5 lb. a.e./acre) 1-1/4 pint (20.0 fl.oz.) (1.0 lb. a.e./acre)	NOT LESS THAN 7 DAYS NOT LESS THAN 30 DAYS

WEEDS CONTROLLED

- |                            |                        |                          |
|----------------------------|------------------------|--------------------------|
| alfalfa*                   | horseweed or marestail | ragweed, giant           |
| bindweed                   | ironweed               | shepherdspurse           |
| bullnettle                 | lambsquarters, common  | smartweed, Pennsylvania* |
| bittersweet, smallflowered | lettuce, prickly       | sowthistle, annual       |

## Supplemental Labeling

buttercup, smallflowered	morningglory, annual	speedwell
Carolina geranium	mousetail	thistle, Canada*
cinquefoil, common and rough	mustard, wild	thistle, bull
clover, red*	onion, wild*	velvetleaf
cocklebur, common	pennycress, field	vetch, hairy*
dandelion*	peppergrass*	Virginia copperleaf
eveningprimrose, cutleaf	purslane, common	
garlic, wild*	ragweed, common	

\*These species are only partially controlled.

For best weed control at time of treatment, weeds should be small, actively growing and free of stress caused by extremes in climatic conditions, diseases, or insect damage. The response of individual weed species to Riverdale SOLUTION™ EMULSIBLE is variable. Consult your local county or state Agricultural Extension Service or crop consultant for advice.

### APPLICATION RESTRICTIONS AND PRECAUTIONS

**Important Notice:** Unacceptable injury to soybeans planted in fields treated with Riverdale SOLUTION™ EMULSIBLE may occur. Whether or not soybean injury occurs and the extent of the injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present. Injury is more likely under cool rainy conditions and where there is less weed vegetation and crop residue present.

Do not use on low organic sandy soils (<1.0%).

Apply a maximum of one application per growing season regardless of the treatment rate.

Do not apply Riverdale SOLUTION™ EMULSIBLE when weather conditions such as temperature air inversions or wind favor drift from treated areas to susceptible plants.

**Livestock Grazing Restriction:** Do not feed hay, forage or fodder. Restrict livestock from grazing treated fields.

In fields treated with Riverdale SOLUTION™ EMULSIBLE, plant soybean seed as deep as practical or at least 1.0 inch deep. Adjust the planter, if necessary, to ensure that planted seed is completely covered.

Do not use any tillage operations between application of Riverdale SOLUTION™ EMULSIBLE and planting soybeans.

Do not apply Riverdale SOLUTION™ EMULSIBLE prior to planting soybeans, if you are not prepared to accept the results of soybean injury, including possible loss of stand and yield.

Do not replant fields treated with Riverdale SOLUTION™ EMULSIBLE in the same growing season with crops other than those labeled for 2,4-D use.

EPA Reg. No. 228-126

EPA Est. No. 228-IL-1

Manufactured By  
RIVERDALE CHEMICAL COMPANY  
Glenwood, Illinois 60425-1584