

Collego®

Postemergence Herbicide Biological Weed Control Agent

Collego® is a two component product

Component A: A fungal spore rehydrating agent
(Net contents: three-1 quart bottles)

Component B: Active Ingredient
Colletotrichum gloeosporioides f. sp.
aeschynomene ATCC 20358 15.0% w/w*
Inert Ingredients 85.0% w/w
TOTAL 100.0% w/w

*Contains at least 75.7×10^{10} viable fungal spores

ACCEPTED
OCT 1 1999
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 70571-1

CAUTION
KEEP OUT OF REACH OF CHILDREN

FOR CONTROL OF NORTHERN JOINTVETCH (Curly Indigo)
IN RICE AND SOYBEAN

EPA Reg. No. 70571-1 □ EPA Est. No. 70571



Encore Technologies, Inc. • Minnetonka, MN 55305 U.S.A.

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DIRECTIONS FOR USE

THIS PRODUCT MAY ONLY BE APPLIED IN THE STATES OF ARKANSAS, LOUISIANA & MISSISSIPPI. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INFORMATION: *Collego*® is a postemergence mycoherbicide (a formulated biological weed control agent) that controls northern jointvetch (curly indigo) *Aeschynomene virginica* (L.) B.S.P. in rice (*Oryza sativa* L.) and soybean (*Glycine max* (L.) Merr.). Do not apply to peas. *Collego*® should be applied to emerged northern jointvetch plants that are from 8 to 24 inches tall and have not reached the bloom stage. *Collego*® will cause disease lesions that completely encircle the stems of the northern jointvetch plants. The fungus primarily infects the stems of the weed but it also infects the petioles and leaflets. Diseased plants wilt and may die. Plants not killed by *Collego*® are stunted, unthrifty, and unable to produce seed or compete with the crop. Death of northern jointvetch plants may not occur for five (5) weeks after application.

Collego® is a two component product. *Collego*® Component A consists of three 1 quart bottles containing a water soluble spore rehydrating agent that allows the spores to take up water prior to germination. *Collego*® Component B consists of three bags that contain a water suspendible dried fungal spore formulation of *Colletotrichum gloeosporioides* f.sp. *aeschynomene* ATCC 20358. Both components are packaged in a 5-gallon plastic mixing container with a lid and stirring paddle.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State and Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS: Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box apply to uses of this product that are within covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. The REI is 72 hours in outdoor areas where average annual rainfall is less than 25 inches a year.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls over long-sleeved shirt and long pants
- chemical-resistant gloves such as barrier laminate or viton
- chemical-resistant footwear plus socks
- protective eyewear
- chemical-resistant headgear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

APPLICATION RATE: *Collego*® Component A (1 quart) and Component B (1 bag) will treat 10 acres.

Acres to be Treated	Amount Required	
	Component A	Component B
10	1 quart	1 bag
20	2 quarts	2 bags
30	3 quarts	3 bags

RECOMMENDATIONS FOR CONTROL OF NORTHERN JOINTVETCH (CURLY INDIGO)

CROP*	WHEN TO APPLY <i>Collego</i> ®	REMARKS
RYE	At any vegetative state of rice growth if the northern jointvetch is at least 8 inches tall. Rice fields should be flooded before application.	Do not apply <i>Collego</i> ® after rice heads emerge from the boot; spraying at this time will not completely prevent seed production of the northern jointvetch.
SOYBEAN	After the soybean plants begin to flower if the northern jointvetch is at least 8 inches tall. Soybean fields should be irrigated just prior to application.	Do not apply <i>Collego</i> ® after pods form on the lower nodes of the soybean plants; spraying at this time will not completely prevent seed production of the northern jointvetch.

**Collego*® is exempt from the requirement of a tolerance for residues in or on rice and soybean when used according to these directions for use.

PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS. CAUTION. Causes slight eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Applicator, mixer/loader, and early entry workers must wear long sleeved shirt, long pants, socks, and shoes. In addition, the mixer/loader should wear a dust/mist filtering respirator MSHA/NIOSH approval number prefix TC-21C. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

STATEMENT OF PRACTICAL TREATMENT. If in Eyes: Flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARD. Keep out of lakes, ponds, or streams. Do not apply directly to water except as indicated in the directions for use. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

Storage: Store *Collego*® at temperatures of 40° to 80°F. *Collego*® contains viable fungal spores. Germination of these spores is reduced by temperatures below 32°F or when *Collego*® is held for 12 hours or more at temperatures above 105°F.

Pesticide Disposal: Pesticide spray mixture or rinseate that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures under the Resource Conservation and Recovery Act. **Container Disposal:** Triple rinse plastic containers (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by incineration if permitted by State or local authorities. Do not burn, stay out of smoke. Do not reuse bag. When empty dispose of in an incinerator or according to approved Federal, State or local procedures under the Resource Conservation and Recovery Act.

TIMING: Apply *Collego*® when the leaves of northern jointvetch are moist and are expected to remain so for moisture or a relative humidity above 80%, and air temperatures of approximately 80°F are necessary for infection. These conditions usually prevail during the evening in rice and soybean fields. Soybean field should be flooded.

NOTE: DO NOT APPLY *Collego*® DURING PERIODS WHEN RICE AND SOYBEANS ARE UNDER MOISTURE STRESS OR APPLY *Collego*® TO NORTHERN JOINTVETCH PLANTS PREVIOUSLY TREATED WITH PHENOXY HERBICIDES. FOR BEST RESULTS, APPLY *Collego*® WEEKS BEFORE OR FOLLOWING *Collego*® APPLICATIONS.

COMPATIBILITY: *Collego*® contains live fungal spores; care must be exercised in the handling of the spores, fertilizers, insecticides, fungicides, and herbicides such as MCP, 2,4-D, 2,4-DB, acifluorfen (Blazer®) and other herbicides when combined with these materials.

APPLICATION EQUIPMENT: Chemical pesticide residues that remain in the spray tank and boom may reduce the effectiveness of *Collego*®. Thoroughly clean the spray tank, boom, nozzles and screens with an activated charcoal water filter. Thoroughly rinse the spraying system to remove all the charcoal. Be sure the sprayer is calibrated to deliver proper spray volume with a uniform spray pattern, as thorough cleaning of *Collego*® is essential. Check frequently during application for output of desired volume. Use proper nozzle selection. Use 50-mesh or coarser screens in strainers, nozzles and suction units. Clean nozzles and screens frequently. Wind velocity is greater than 10 miles per hour.

SPORE PREPARATION: *Collego*® Component B, dried fungal spores, must be rehydrated just before use. Rehydrating the spores for 10 acres:

- Step 1. Pour the contents from the 1-quart container of *Collego*® Component A into the 5-gallon mixing container.
- Step 2. Completely fill the *Collego*® Component A container with water and empty into mixing container.
- Step 3. Repeat Step 2. (Final concentration is 1 part rehydrating solution and 2 parts water.)
- Step 4. Vigorously stir until *Collego*® Component A is completely mixed.
- Step 5. Add one bag Component B and stir with mixing paddle until the spores are completely wet and rehydrated.

FILLING THE SPRAY TANK: Fill the spray tank one-half full with water; add the *Collego*® spore suspension. Finish filling the tank to the desired spray volume. Agitate the mixture to create a uniform spore suspension during spraying.

SPRAY APPLICATION: For best results, *Collego*® should be applied by aerial application with fixed-wing aircraft. Avoiding spray drift at the application site is the responsibility of the applicator. Factors determine the potential for spray drift. The applicator and the grower are responsible for considering drift management requirements must be followed to avoid off-target drift movement from aerial application. Apply to forestry applications, public health uses or the applications using dry formulations. Where states have specific requirements, follow those requirements. 1. The distance of the outer most nozzles on the boom must not exceed ½ the length of the wingspan. 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards. Ground applications are not prohibited; however, they may be impractical in most rice and soybean situations of special areas such as levees where ground applications are practical. Use a spray volume of at least 15 gallons of water per acre.

NOTE: DO NOT ALLOW SPRAY SUSPENSION TO REMAIN IN THE SPRAY TANK FOR MORE THAN 24 HOURS. TEMPERATURES ABOVE 105°F.

SPECIAL PRECAUTIONS: For 7 days following application, the grower should frequently examine the northern jointvetch plants for disease lesions. As with other pesticides, effectiveness of *Collego*® may be reduced by mistakes in application. Results will be affected by extremes in weather, soil moisture and temperatures. If the disease lesions are observed, do not encircle the stems of the northern jointvetch plants within 14 days after treatment. See Application Rate and Recommendations Sections for *Collego*® amounts and timing.

CROP ROTATION: Any food, feed and forage crops except peas may be sown in *Collego*®-treated fields after the harvesting of a non-*Collego*®-treated crop.

Ortram® Trademark of Zeneca Chemical Co., Blazer® Trademark of Rohm and Haas Co.

IMPORTANT - READ BEFORE USE

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability. The directions for use of this product are believed to be adequate and should be followed under the conditions, manner of use and other factors beyond Encore's control, it is impossible for Encore to eliminate crop injury or ineffectiveness is always possible.

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