

# 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\*  
Other Ingredients . . . . . 85.0% w/w  
TOTAL 100.0% w/w

\*Contains at least  $75.7 \times 10^{10}$  viable fungal spores

### CAUTION

#### KEEP OUT OF REACH OF CHILDREN

See back panel for precautionary statements, directions for use and storage and disposal directions.

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

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

**encore**  
**TECHNOLOGIES** LLC  
Developing opportunities in biotechnology

Minnetonka, MN 952-404-9596

Rev. 02/02

**ACCEPTED**  
MAY 22 2002  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 70571-1

70571-1  
05/22/2002  
1/1

<b>FIRST AID</b>	
If in eyes	<ul style="list-style-type: none"> <li>- Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>- Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS.** CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. All mixer/loaders and applicators must wear a dust/mist-filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, P, R, or HE filter. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS:** Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

### 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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.

**GENERAL INFORMATION:** *Collego*<sup>®</sup> is a post emergence mycoherbicide 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*<sup>®</sup> should be applied to emerged northern jointvetch plants that are from 8-24 inches tall and have not reached the bloom stage. *Collego*<sup>®</sup> 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*<sup>®</sup> are stunted, unthrifty, and unable to produce seed or compete with the crop. Death of northern jointvetch plants may not occur for five weeks after application.

*Collego*<sup>®</sup> is a two-component product. *Collego*<sup>®</sup> 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*<sup>®</sup> Component B consists of three bags that contain a water suspendible dried fungal spore formulation of *Colletotrichum gloeosporioides* f.sp. *aeschynomene*

ATCC20358. Both components are packaged in a 5-gallon plastic mixing container with a lid and stirring paddle.

**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.

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 long-sleeved shirt, long pants, shoes plus socks.

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

Acreage 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
RICE	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.

**TIMING:** Apply *Collego*® when the leaves of northern jointvetch are moist and are expected to remain so for at least 12 hours. Following *Collego*® application, free moisture or a relative humidity above 80%, and air temperatures of approximately 80°F are necessary for at least 12 hours for development of the highest degree of infection. These conditions usually prevail during the evening in rice and soybean fields. Soybean fields should be irrigated just before application; rice fields should be flooded.

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

**COMPATIBILITY:** *Collego*® contains live fungal spores; care must be exercised in the handling of the spores. *Collego*® is not compatible with liquid nitrogen fertilizers, insecticides, fungicides, and herbicides such as MCP, 2,4-D,2,4-DB, aciflourfen (Blazer)® and molinate (Ordram®). Germination of the spores is reduced if combined with these materials.

**APPLICATION EQUIPMENT:** Chemical pesticide residues that remain in the spray tank and boom may kill the live *Collego*® spores. Therefore, before use of *Collego*®, thoroughly clean the spray tank, boom, nozzles and screens with an activated charcoal water suspension. Prepare activated charcoal powder following manufacturer's recommendations for use. Thoroughly rinse the spraying system to remove all the charcoal water suspension prior to the application of *Collego*®. Be sure the sprayer is calibrated to deliver proper spray volume with a uniform spray pattern, as thorough coverage of the northern jointvetch leaves and stems with *Collego*® is essential. Check frequently during application for output of desired volume. Use proper nozzle discs and nozzle arrangements on the spray boom. Use 50-mesh or coarser screens in strainers, nozzles and suction units. Clean nozzles and screens frequently. Wind may cause uneven coverage. Do not apply when wind velocity is greater than 10 miles per hour.

**SPORE PREPARATION:** *Collego*® Component B, dried fungal spores, must be rehydrated just before use. The sequence of the steps that must be used in 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 suspended.

**FILLING THE SPRAY TANK:** Fill the spray tank one-half full with water; add the *Collego*® spore suspension (prepared above) to the tank and rinse the mixing container; finish filling the tank to the desired spray volume. Agitate the mixture to create a uniform spore suspension. For best results, maintain continuous agitation during spraying.

**SPRAY APPLICATION:** For best results, *Collego*® should be applied by aerial application with fixed-wing or helicopter aircraft. Use a spray volume of at least 10 gallons of water per acre. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or the applications using dry formulations. Where states have more stringent regulations, they should be observed.

1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Ground applications are not prohibited; however, they may be impractical in most rice and soybean situations where northern jointvetch is found, with the exception 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 12 HOURS OR ALLOW THE SUSPENSION TO REACH TEMPERATURES ABOVE 105°F.

**SPECIAL PRECAUTIONS:** For 7 days following application, the grower should frequently examine the northern jointvetch plants to determine if disease lesions are developing. As with other pesticides, effectiveness of *Collego*® may be reduced by mistakes in application, fertilization, cultivation and management practices. Results will be affected by extremes in weather, soil moisture and temperatures. If the disease lesions caused by *Collego*® do not reach one-half (1/2) inch in diameter and do not encircle the stems of the northern jointvetch plants within 14 days after treatment, a second application of *Collego*® is recommended. 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 immediately after harvest of rice or soybeans. Peas may be planted following the harvesting of a non-*Collego*®-treated crop.

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store *Collego*® in a dry, cool place out of direct sunlight and away from heat sources at temperatures of 40-80 degrees 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:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty package into application equipment. Then dispose of empty package in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT - READ BEFORE USE**

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond Encore's control, it is impossible for Encore to eliminate all risks associated with use of this product. As a result, crop injury or ineffectiveness is always possible.

**WARRANTY AND DISCLAIMER OF WARRANTIES:** Encore warrants that this material conforms to the description and conditions on the label and is reasonable fit for use under the directions and conditions of this label. ENCORE AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, MERCHANTABILITY OR OTHERWISE.

**LIMITATIONS OF LIABILITY:** The liability of Encore or Seller for damages arising from the use of this product is limited to the replacement cost of the product used and shall not include any consequential damages such as loss of profits or other values.

**NO CHANGES AUTHORIZED:** No one (other than an authorized agent of Encore) is authorized to make any other warranty, or change the above conditions, disclaimer or limitations, and then only if in writing and with a specific reference to this label.

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Postemergence Herbicide  
Biological Weed Control Agent  
**Component B**

**Active Ingredient:**

*Colletotrichum gloeosporioides* f. sp.  
*aeschynomene* ATCC 20358.....15.0% w/w\*

**Other Ingredients:**.....85.0% w/w

**TOTAL** .....100.0% w/w

\*Contains at least 75.7 X 10<sup>10</sup> viable fungal spores

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See back panel for additional precautionary statements.

**MUST BE USED WITH *Collego* COMPONENT A.  
See DIRECTIONS FOR USE on back panel of mixing pail.**

**Pesticide Storage:** Store *Collego*® in a dry, cool place out of direct sunlight and away from heat sources 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.

Manufactured by:  
Encore Technologies, LLC  
111 Cheshire Lane  
Minnetonka, MN 55305  
952-404-9596

EPA Reg. No.: 70571-1  
EPA Est. No.: 70571-MN-001

Net Contents: XXX gm  
1000B-2

# Collego®

Postemergence Herbicide  
Biological Weed Control Agent

## Component A

Fungal spore rehydrating agent

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CAUTION**

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**MUST BE USED WITH *Collego* COMPONENT B.  
See DIRECTIONS FOR USE on back panel of mixing pail.**

**Pesticide Storage:** Store *Collego*® in a dry, cool place out of direct sunlight and away from heat sources 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.

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