

16F5  
Pm 23  
57638-11

1 (30 ACRE PACKAGE)  
Contains Three 10 Acre Packages

9-3249-1

LIVING FUNGAL SPORES  
STORE AT TEMPERATURES OF 40° TO 80° F  
AVOID STORAGE CONDITIONS OF  
HIGH HUMIDITY AND MOISTURE

**Collego**™

SELECTIVE POSTEMERGENT HERBICIDE  
BIOLOGICAL WEED CONTROL AGENT FOR  
CONTROL OF NORTHERN JOINTVETCH (CHALK INDIGO)  
IN RICE AND SOYBEAN

**ACTIVE INGREDIENT**

*Colletotrichum gloeosporioides* f.sp.  
*aeschynomene* ATCC 20358

15% w/w\*

**INERT INGREDIENTS**

85% w/w

Total 100% w/w

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

Keep Out of Reach of Children

**CAUTION-CAUCION**

**PRECAUCION AL USUARIO:** Si usted no lee Inglés, no use este producto hasta que la etiqueta le haya sido explicada a.nplamente.

See Precautionary Statement on Side Panel

EPA Reg. No. 1023-63

EPA Est. No. 1023-MI-2

812 255 0031

USE BEFORE

LOT



Division of The Upjohn Company  
Kalamazoo, Michigan 49001, U.S.A.

NOT REVIEWED  
In accordance with PR Notice 10-23  
Based on Draft Labeling Data

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. See Booklet for complete directions for use.

**PRECAUTIONARY STATEMENT**

**HAZARD TO HUMANS AND DOMESTIC ANIMALS.** Caution. Causes slight eye irritation. Avoid contact with eyes or clothing.  
**STATEMENT OF PRACTICAL TREATMENT.** If In Eyes. Flush with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling.  
**ENVIRONMENTAL HAZARDS.** 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.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.  
**STORAGE:** Store Collego in original container at 40° to 80° F. Collego contains viable fungal spores. Germination of these spores will be reduced by temperatures below 32° F or when Collego is held for 12 hours or more at temperatures above 105° F. Store in original container and keep closed.  
**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.** Triple rinse plastic containers (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned, stay out of smoke.  
Completely empty bag into application equipment. Then dispose of empty bag 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 TUOCO's control, it is impossible for TUOCO 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:** TUOCO warrants that this material conforms to the description and conditions on the label and is reasonably fit for use under the directions and conditions of this label. **TUOCO AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, MERCHANTABILITY OR OTHERWISE.**

**LIMITATIONS OF LIABILITY:** The liability of TUOCO 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 TUOCO) is authorized to make any other warranty or change the above conditions, disclaimer or limitations, and then only if in writing and with specific reference to this label.

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**TUCO**

**Collego™**

Component A  
FUNGAL SPORE REHYDRATING AGENT

Keep Out of Reach of Children

**CAUTION-CAUCION**

PRECAUCION AL USUARIO: Si usted no lee  
ingles, no use este producto hasta que la  
etiqueta le haya sido explicada  
ampliamente.

See side panel for  
precautionary statements

USE BEFORE  
LOT

EPA Est No 1023-MI-2

NET VOLUME 1 QUART

9-124  
No  
Accordance  
Based on Draft

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this  
product in a manner inconsistent with its  
labeling

See Booklet for complete directions for use

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in original con-  
tainer and keep closed. Store  
Collego Component A at tempera-  
tures of 40° to 80° F.

**PESTICIDE DISPOSAL:** Wastes re-  
sulting from the use of this product  
may be disposed of on site or at an  
approved waste disposal facility

**CONTAINER DISPOSAL:** Triple rinse  
(or equivalent). Then offer for recycl-  
ing or reconditioning or puncture  
and dispose of in a sanitary landfill  
or incineration, or if allowed by State  
and local authorities, by burning. If  
burned, stay out of smoke.

812 233 001 "

**TUCO** Division of The Upjohn Company  
Kalamazoo Michigan 49001 U.S.A.

**BIOLOGICAL WEED CONTROL AGENT  
FOR CONTROL OF NORTHERN JOINTVETCH (CURLY INDIGO)  
IN RICE AND SOYBEAN**

**ACTIVE INGREDIENT**

*Colletotrichum gloeosporioides* f.sp.  
*aeschyromene* ATCC 20358

**INERT INGREDIENTS**

Total

100% w/w  
100% w/w  
100% w/w

\*Contains at least  $75.7 \times 10^8$  viable fungal spores

**KEEP OUT OF REACH OF CHILDREN  
CAUTION-CAUCION**

**PRECAUTIONAL USUARIO:** Si usted no lee ingles, no use este  
producto hasta que la etiqueta le haya sido explicada ampliamente.

See Precautionary Statement on Back Panel

NET WEIGHT

EPA Reg No 1023-63

EPA Est No 1023-MI-2

USE BEFORE  
LOT

812 235 003 //

**TUCO**

Division of The Upjohn Company  
Kalamazoo, Michigan 49001, U.S.A.

Environmental Hazards: 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.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store Collego Component B in temperatures of 40° to 80° F. Collego Component B contains viable spores. Germination of these spores will be reduced by temperatures below 30° F or when Collego Component B is held for 12 hours or more at temperatures above 105° F. Store in original container and keep closed.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag 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 TUCO's control, it is impossible for TUCO 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:** TUCO warrants that this material conforms to the description and conditions on the label and is reasonably fit for use under the directions and conditions of this label. **TUCO AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, MERCHANTABILITY OR OTHERWISE.**

**LIMITATIONS OF LIABILITY:** The liability of TUCO 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 TUCO) is authorized to make any other warranty, or change the above conditions, disclaimer or limitations, and then only if in writing and with specific reference to this label.

**TUCO**

Division of The Upjohn Company  
Kalamazoo, Michigan 49001, U.S.A.

812 235 002 //

Collego is a two component product

-Component A A fungal spore rehydrating agent

-Component B

**ACTIVE INGREDIENT**

*Colletotrichum gloeosporoides* f. sp.  
*aeschynomene* ATCC 20358

15% w/w\*

**INERT INGREDIENTS**

Total 85% w/w

100% w/w

\*Contains at least 75 " x 10" viable fungal spores

**Keep Out of Reach of Children**

**CAUTION-CAUCION**

**PRECAUCION AL USUARIO:** Si usted no lee inglés, no use este producto hasta que le otorgue la hoja de instrucciones en español.

**PRECAUTIONARY STATEMENT**

**HAZARD TO HUMANS AND DOMESTIC ANIMALS.** Caution Causes slight eye irritation. Avoid contact with eyes or clothing.

**STATEMENT OF PRACTICAL TREATMENT if in Eye.** Flush with plenty of water. Get medical attention if irritation persists. Wash thoroughly with soap and water after handling.

**ENVIRONMENTAL HAZARDS.** 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.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**GENERAL INFORMATION**

Collego is a selective postemergent mycoherbicide which is a specific biological weed control agent. Postemergent applications of Collego will selectively control northern jointvetch (curly indigo) *Aeschynomene virginica* (L.) B.S.P. in rice (*Oryza sativa* L.) and soybean (*Glycine max* (L.) Merr.). To prevent seed production, Collego should be applied when northern jointvetch plants are 12 or more inches tall and have not reached the bloom stage. Collego will cause disease lesions that will 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 become limp, they may collapse. Plants not killed by Collego are stunted, unthrifty, unable to compete with the rice or soybean and will not be able to seed. Death of northern jointvetch plants may not occur for five (5) weeks after application.

Collego is a two component product. Collego consists of three 1-quart bottles containing a water rehydrating agent that allows the spores to take up water for germination. Collego Component B consists of a water-suspendable dried fungal spore of *Colletotrichum gloeosporoides* f. sp. *aeschynomene*. Both components are packaged in a 5-gallon container with a lid and stirring paddle.

**APPLICATION RATE**

Collego Component A (1 quart) and Component B (1 quart) per acre.

Acres to be Treated	Amount Required
10	1 quart
20	2 quarts
30	3 quarts

RECOMMENDATIONS FOR CONTROL OF NORTHERN JOINTVETCH (CURLY INDIGO)

CROP*	WHEN TO APPLY COLLEGO	REMARKS
RICE	At any vegetative stage of rice growth if the northern jointvetch is at least 12 inches tall. Rice fields should be flooded before application.	To prevent northern jointvetch from setting seed, Collego must be applied prior to bloom. Application of Collego to northern jointvetch in bloom or post-bloom will not completely prevent seed development. Northern jointvetch usually begins to bloom at about the same time as rice heads are emerging from the boot or pods are forming on the lower nodes of soybean plants.
SOYBEAN	After the soybean plants begin to flower if the northern jointvetch is at least 12 inches tall. Soybean fields should be irrigated just prior to application.	

\* 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

TERMS

Apply Collego when free moisture is on northern jointvetch leaves or relative humidities are above 80% and air temperatures of approximately 80° F are expected for at least 12 hours immediately following application. These conditions, necessary for infection to develop, usually prevail in rice and soybean fields during the evening. Soybean fields should be irrigated just prior to application, rice fields should be flooded.

CAUTION: DO NOT APPLY Collego DURING PERIODS WHEN RICE AND SOYBEANS ARE UNDER STRESS FOR MOISTURE OR WHEN DRYING CONDITIONS ARE LIKELY TO OCCUR. DO NOT APPLY COLLEGO TO NORTHERN JOINTVETCH PLANTS PREVIOUSLY TREATED WITH PHENOXY HERBICIDES. DO NOT APPLY FUNGICIDES FOR AT LEAST THREE WEEKS FOLLOWING COLLEGO APPLICATION.

APPLICATION EQUIPMENT

Chemical pesticide residues that remain in the spray tank and boom may kill the live Collego spores. Therefore, prior to use of Collego, thoroughly clean the spray tank. Be sure the sprayer has been calibrated to deliver proper spray

fallage 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 gallonage. Use proper nozzle type 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.

FILLING THE SPRAY TANK

Fill the spray tank one-half full with water; add the Collego spore suspension (see Spore Preparation below) to the tank and rinse the mixing container; finish filling the tank to the desired spray volume. Agitate the spores and water to maintain the spore suspension. For best results, maintain continuous agitation during spraying.

SPORE PREPARATION

Collego Component B, dried fungal spores, must be rehydrated just prior to 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 dissolved
- Step 5 Add one bag Component B and stir with mixing paddle until the spores are completely wet and suspended
- Step 6 The suspension of spores may then be added to the spray tank. Rinse the mixing container to remove all of the spore suspension
- Step 7 Dilute the spore suspension in the spray tank to the desired volume

found with the exception of special areas such as levees where ground applications are practical. See application Equipment section for instructions for preparing the ground spray rig prior to use of Collego. Use a spray volume of at least 15 gallons of water per acre

CAUTION: DO NOT ALLOW SPRAY SUSPENSION TO REMAIN IN THE SPRAY TANK FOR MORE THAN 12 HOURS OR ALLOW THE SUSPENSION TO HEAT UP

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, 2,4,5-T and molinate (Ordran®). Germination of the spores will be reduced if combined with these materials. Collego is compatible with acifluorfen (Blazer®).

CROP ROTATION

Food, feed and forage crops may be sown in Collego treated fields immediately after harvest of rice or soybeans.

SPECIFIC PRECAUTIONS

After 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 temperature

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 should be made. See Application Rate and Recommendations Sections for Collego amounts and timing

STORAGE AND DISPOSAL

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

**STORAGE:** Store in original container and keep closed. Store Collego at temperatures of 40° F to 80° F. Collego contains viable fungal spores. Germination of these spores will be reduced by temperatures below 32° F or when Collego is held for 12 hours or more at temperatures above 105° F. Store in original container and keep closed.

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State or local authorities by burning. If burned, stay out of smoke.

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

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. Ground applications are not prohibited, however they may be impractical in most rice and soybean situations where northern jointvetch is