

71840-13

5/31/2013

1/7

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460

EPA  
Registration  
Number:

71840-13

Date of Issuance:

MAY 31 2013

## NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of  
Issuance: Unconditional

Name of Pesticide Product:

Integral® F-33

Name and Address of Registrant (include ZIP Code):

Becker Underwood, Incorporated  
801 Dayton Avenue, P.O. Box 667  
Ames, IA 50010

Note: Changes in labeling, differing in substance from that accepted in connection with this registration, must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act). Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If the EPA determines at any time that additional data are required to maintain in effect an existing registration, it will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms:

1. On the final printed labeling, revise the EPA Registration Number to read as follows: "EPA Reg. No. 71840-13."
2. Submit two (2) copies of the final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for further description of final printed labeling.

Signature of Approving Official:

Keith A. Matthews, Director  
Biopesticides and Pollution Prevention Division (7511P)

Date:

31 MAY 2013

EPA Form 8570-6

## CONCURRENCES

YMBOL	7511P	7511P	7511P					
USERNAME	KAVSCH	Umeri	MCHM					
DATE	05/30/2013	5/30/2013	31 May 13					

PA Form 1320-1A (1/90)

Printed on Recycled Paper

OFFICIAL FILE COPY

# INTEGRAL® F-33

## FOR USE AS AN INDOOR COMMERCIAL SEED TREATMENT

### ACTIVE INGREDIENT:

*Bacillus pumilus* strain BU F-33\* ..... 5.00%

OTHER INGREDIENTS: ..... 95.00%

TOTAL: ..... 100.00%

\* Contains not less than  $2.2 \times 10^{10}$  cfu/mL

### KEEP OUT OF REACH OF CHILDREN

See Additional Precautionary Statements Inside Panel
--

EPA Reg. No. 71840-RG

EPA Est. No. 67064-IA-001

### NET CONTENTS:

*Another quality biological product from:*

Becker Underwood, Inc.

801 Dayton Avenue

P.O. Box 667

Ames, IA 50010

Tel: 515-232-5907 \* 800-232-5907

www.BeckerUnderwood.com

*{Batch code: Located on physical container}*

## ACCEPTED

MAY 31 2013

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 71840-13

## PRECAUTIONARY STATEMENTS

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

When handling this product, wear a long-sleeved shirt, long pants, waterproof gloves, shoes, socks, and dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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

*{Environmental hazards statements for the following container sizes: 3.4 fl oz, 6.8 fl oz, and 13.6 fl oz}*

Do not contaminate water when disposing of equipment washwaters or rinsate.

*{Environmental hazards statements for the following container sizes: 30 gal and 275 gal}*

Do not contaminate water when disposing of equipment washwaters or rinsate.

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.

## DIRECTIONS FOR USE

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

Not for use on agricultural establishments in hopper-box, planter-box, slurry-box, or other seed treatment applications at or immediately before planting.

For indoor commercial seed treatment use only.

### PRODUCT INFORMATION

INTEGRAL® F-33 contains bacteria that colonize on the developing root systems of plants and elicit systemic changes in the plant that activate the plant's own defense system against certain pests and pathogens. As root systems develop, the bacteria grow with the roots, extending the protection throughout the growing season. As a result of this biological protection, more vigorous plants are established, which often results in more uniform stands and greater yields.

### FOR USE AS A COMMERCIAL SEED TREATMENT

Dilute INTEGRAL® F-33 with water, and apply directly to dry seed or mix INTEGRAL® F-33 with liquid *Rhizobium* inoculants and/or other registered seed treatment insecticides and/or fungicides. Do not mix INTEGRAL® F-33 with any product containing a label prohibition against such mixing. When tank mixing INTEGRAL® F-33 with any other registered seed treatment insecticide and/or fungicide, always read and follow all use directions, restrictions, and precautions of both INTEGRAL® F-33 and the tank mix partner(s). The resulting tank mix must be in accordance with the most restrictive label limitations and precautions. Do not exceed label dosage rates.

**ATTENTION:** If *Rhizobium* inoculants are to be used in the tank mix with other seed treatments (fungicides, insecticides, fertilizers, etc.), make sure that they are compatible (not harmful) to the *Rhizobium*. Use only chlorine-free water in the tank mix. Likewise, if one or more treatments are not compatible (harmful), mix those products in and apply them from a separate mix tank.

### MIXING INSTRUCTIONS

INTEGRAL® F-33 can be applied as a water-based slurry alone or with other seed treatment products (fungicides, insecticides). Additionally, *Rhizobium* inoculants can be added to the tank mix. Prior to mixing, determine physical compatibility by mixing proportional quantities of the products in water.

To mix, first add the other seed treatment product(s) and/or the *Rhizobium* inoculant product(s) to the mix tank with approximately ½ of the required water. Slowly add INTEGRAL® F-33 to the slurry until a uniform suspension is obtained. Add the remainder of the water while maintaining constant agitation. Do not store mixed slurries for longer than 24 hours.

## APPLICATION RATES

Alfalfa, barley, rye, cotton, sunflower, peanut, corn, pea, lentil, chicory, lettuce, endive, brussel sprout, beet, parsnip, turnip, cauliflower, broccoli, turnip, radish, spinach, onion, eggplant, pepper, celery, carrot, squash, pumpkin, zucchini, cucumber, apple, melon, citrus, strawberry, grape, raspberry, pineapple, soybean, canola, oil seed rape, spring wheat, winter wheat, tobacco, tomato, sorghum, sugarcane, turfgrass, flowers and bedding plants.

**ATTENTION:** DO NOT APPLY to rice, potato, sweet potato, bean, cabbage, garlic, or pear.

### {FOR 3.4 FL OZ AND 6.8 FL OZ CONTAINER SIZES}

To elicit systemic changes in the plant that activate the plant's own defense system against certain pests and pathogens, apply 0.005 – 5 fl oz of INTEGRAL® F-33 per 50 lb of seed.

### {FOR 13.6 FL OZ CONTAINER SIZES}

To elicit systemic changes in the plant that activate the plant's own defense system against certain pests and pathogens, apply 0.01 – 10 fl oz of INTEGRAL® F-33 per 100 lb of seed.

### {FOR 30 GAL AND 275 GAL CONTAINER SIZES}

To elicit systemic changes in the plant that activate the plant's own defense system against certain pests and pathogens, apply 1 fl oz – 7.8 gal of INTEGRAL® F-33 per 10,000 lb of seed.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

Ensure container closures are tight. Store in a cool, dry place.

### PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### CONTAINER HANDLING:

*{For containers with capacities less than or equal to 5 gallons}*

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the

flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

*{For containers with capacities more than 5 gallons}*

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site you, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council at 877-952-2272 or [www.acrecycle.org](http://www.acrecycle.org). Alternatively, puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

### **NOTICE – READ CAREFULLY BEFORE USING CONDITIONS OF SALE AND LIMITED WARRANTY STATEMENT**

Becker Underwood, Inc. warrants that this product conforms to the specifications on this label and is reasonably fit for the purposes stated on this label when used in accordance with the directions, subject to the inherent risks set forth below.

To the extent permitted by applicable law, Becker Underwood, Inc. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

**Inherent Risks of Use:** It is impossible to eliminate all risks associated with use of this product. Lack of performance, injury, or other unintended consequences may result because of such factors as use of product contrary to label instructions and established safe practice, abnormal conditions (such as excessive rainfall, drought, and Acts of God), presence of other materials, use in combination with other materials, the manner of application, or other factors, all of which

are beyond the control of Becker Underwood, Inc. or the seller. All such risks shall be assumed by the buyer.

**Limitations of Remedies:** To the extent permitted by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at Becker Underwood, Inc.'s election, one of the following: (1) replacement of the amount of the product used; or (2) refund of the purchase price paid for the product. To the extent permitted by applicable law, Becker Underwood, Inc. shall not be liable for losses or damages resulting from handling, storage, or use of this product contrary to label instructions unless Becker Underwood, Inc. is promptly notified of such loss and damage in writing. To the extent permitted by applicable law, Becker Underwood, Inc. shall not be liable for consequential or incidental damages or losses. Becker Underwood, Inc. neither assumes nor authorizes any person to assume for it, any other liability in connection with the sale, storage, use, or handling of this product other than warranted by this label.

Becker Underwood, Inc.  
801 Dayton Avenue  
P.O. Box 667  
Ames, IA 50010  
Tel. 515-232-5907 • 800-232-5907  
[www.beckerunderwood.com](http://www.beckerunderwood.com)

INTEGRAL® is a registered trademark of Becker Underwood, Inc.