



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 27, 2017

Nancy Huebl  
Wellmark International  
1501 East Woodfield Rd., Suite 200 W  
Schaumburg, IL 60173

Subject: Notification per PRN 98-10 – ABN and Marketing statement  
Product Name: RF2226 DM COMBO GRAIN EC  
EPA Registration Number: 89459-86  
Application Date: 1/3/2017  
Decision Number: 525084

Dear Ms. Huebl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

The alternate brand name “*Diacon IGR Plus*” has been added to the product record.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Angela Hollis at 703-347-0216 or via email at [hollis.angela@epa.gov](mailto:hollis.angela@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", enclosed in a hand-drawn oval.

Kable Bo Davis, Product Manager 3  
Invertebrate and Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

# RF2226 DM COMBO GRAIN EC

Alternate brand name: Diacon® IGR Plus

PROTECTS STORED GRAINS AND SEEDS AGAINST DAMAGE FROM INDIAN MEAL MOTH, SAW-TOOTHED GRAIN BEETLE, RED FLOUR BEETLE, RICE WEEVIL, MAIZE WEEVIL, AND OTHER LISTED PESTS

Emulsifiable Concentrate  
May be diluted with water or oil  
Miscible in dust controlling oils  
May be tank-mixed  
Combination adulticide and insect growth regulator  
Combination insect growth regulator PLUS adulticide  
Long residual control  
Reduces rebound of infestations  
Kills listed adult insects and exposed larvae

## NOTIFICATION

89459-86

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/27/2017

### ACTIVE INGREDIENTS:

Deltamethrin ..... 4.75%

S-Methoprene ..... 11.40%

**OTHER INGREDIENTS:** ..... 83.85%

Total: ..... 100.00%

Contains 0.41 lb deltamethrin per gallon

Contains 1 lb S-methoprene per gallon

### KEEP OUT OF REACH OF CHILDREN

#### WARNING

See side/back panels for additional Precautionary Statements

EPA Reg. No. 89459-86xxx

EPA Est. No.

Batch Code:

NET CONTENTS:

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - WARNING:** May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

<b>FIRST AID</b>	
If swallowed	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
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.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
If on skin	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</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. You may also contact 1-800-248-7763 for emergency medical treatment information.	

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to freshwater and estuarine fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

## PHYSICAL AND CHEMICAL HAZARDS

Do not use water-based sprays of RF2226 DM Combo Grain EC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

## **DIRECTIONS FOR USE**

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

## **PRODUCT INFORMATION**

RF2226 DM Combo Grain EC is an emulsifiable concentrate insecticide that contains an adulticide and insect growth regulator for use on stored grains and for treating empty bins and warehouses for stored product pest control. RF2226 DM Combo Grain EC provides effective knockdown and control of listed adults and larvae and prevents the buildup of listed pests with long residual control provided by the IGR.

## **STORED GRAIN**

Use to control adults and accessible larval stages of listed insect pests including, lesser grain borers, larger grain borers, Angoumois grain moths, Indian meal moths, tobacco moths, dermestids, and bean weevils; also to control populations of granary weevils, rice weevils, maize weevils, saw-toothed grain beetles, red flour beetles, and confused flour beetles.

## **Tank-mixing**

In instances of high weevil complex pressure or suspected tolerance, the use of piperonyl butoxide (PBO) synergist may be used as a tank mix partner. Use PBO at a ratio of 1 part RF2226 DM Combo Grain EC to 1.5 parts PBO. RF2226 DM Combo Grain EC may be tank-mixed with other pesticide products such as Pyronyl™ Crop Spray. The more stringent label will apply when tank-mixing.

## **Directions for Treatment**

Dilute RF2226 DM Combo Grain EC with water or approved dust-controlling oils, mineral or soybean oils and apply to the moving grain stream as a coarse spray to provide a concentration of 0.5 ppm to 1 ppm of deltamethrin and 1.25 ppm or 2.5 ppm of S-methoprene on the grain.

Final spray volume with water solutions is 3 -5 gallons of liquid per 1,000 bushels of grain. For rough rice, use 10 gallons of water per 1,000 bushels. Maintain agitation before and during application. Use a mixed dilution within 48 hours of preparing. Re-agitation of spray dilution may be required if left overnight.

For final spray volumes with oil solutions, follow the oil manufacturer's rate recommendations.

For uniform application, treat the grain as it moves into storage. Apply RF2226 DM Combo Grain EC in solution at the rate of 3 - 5 gallons of dilution per 1,000 bushels to achieve a 0.5 ppm to 1 ppm concentration of deltamethrin and 1.25 ppm or 2.5 ppm of S-methoprene on the commodity. Apply at rates as shown in the tables below:

**AMOUNT OF RF2226 DM COMBO GRAIN EC/1,000 BUSHELS OF GRAIN**

Commodity	TREATMENT AT 0.5 ppm Deltamethrin/ 1.25 ppm S- Methoprene		TREATMENT AT 1 ppm Deltamethrin/ 2.5 ppm S-Methoprene		Gallons of Diluent	Liters of Diluent
	fl oz	ml	fl oz	ml		
Barley	7.75	229	15.50	458	3 - 5	11.3 - 19
Corn	9	266	18	532	3 - 5	11.3 - 19
Oats	5.15	152	10.30	304	3 - 5	11.3 - 19
Popcorn	9	266	18	532	3 - 5	11.3 - 19
Rice	7.2	212	14.4	424	3 - 5	11.3 - 19
Rye	9	266	18	532	3 - 5	11.3 - 19
Sorghum (milo)	8	236	16	472	3 - 5	11.3 - 19
Wheat	9.6	283	19.2	566	3 - 5	11.3 - 19

**AMOUNT OF RF2226 DM COMBO GRAIN EC/TON OF GRAIN**

Commodity	0.5 ppm Deltamethrin 1.25 ppm S-methoprene		1 ppm Deltamethrin/ 2.5 ppm S-methoprene		Ounces of Diluent	Milliliters of Diluent
	fl oz	ml	fl oz	ml		
					13 - 21	384 - 630
Barley	0.34	10	0.68	20	13 - 21	384 - 630
Corn	0.34	10	0.68	20	13 - 21	384 - 630
Oats	0.34	10	0.68	20	13 - 21	384 - 630
Popcorn	0.34	10	0.68	20	13 - 21	384 - 630
Rice	0.34	10	0.68	20	13 - 21	384 - 630
Rye	0.34	10	0.68	20	13 - 21	384 - 630
Sorghum (milo)	0.34	10	0.68	20	13 - 21	384 - 630
Wheat	0.34	10	0.68	20	13 - 21	384 - 630

**SEED TREATMENT**

Apply RF2226 DM Combo Grain EC to protect stored grain seed against injury from stored grain insects listed. Clean and treat seed storage areas prior to storage. If seed is infested, fumigate\*\* to control existing populations and apply RF2226 DM Combo Grain EC for residual protection. RF2226 DM Combo Grain EC may also be used in conjunction with registered fungicide or other insecticide seed protectants, to protect barley, corn, oats, popcorn, rice, rye, sorghum and wheat seed during the seed treating process, and prior to bagging or placing in bulk seed storage at the rate of 0.5 ppm – 1 ppm. When treating seed with other pesticide products, properly tag the treated seed, indicating “Do not use seed for food, feed, or oil purposes.” Seed treated with RF2226 DM Combo Grain EC alone is considered grain.

\*\*Fumigate with EPA-registered fumigants according to manufacturer’s label recommendations.

## **GRAIN BINS AND WAREHOUSES**

Dilute 0.25 – 1.5 fl oz of RF2226 DM Combo Grain EC with water to make 1 gallon of solution. Before storing or handling grain, apply finished spray to equipment, wall and floor surfaces of grain bins and warehouses at the rate of 1 gallon per 1,000 sq ft but do not allow runoff to occur. Apply after equipment bins and buildings have been thoroughly cleaned. If infestations are severe or there are areas that are difficult to treat with a conventional spray, fumigation is recommended with an EPA-registered fumigant.

Use RF2226 DM Combo Grain EC as a perimeter treatment to prevent infestation of these structures. Apply to areas where listed pests are seen or may find entrance. Treat a band of soil or lawn up to 6-10 feet wide around and adjacent to structures and treat the foundation to a height of 2 to 3 feet. Mix 0.25 – 1.5 fl oz of RF2226 DM Combo Grain EC with water to make 1 gallon of solution. Apply as a coarse spray at a rate of 1 gallon per 1,000 sq ft. Wet the barrier area thoroughly and uniformly but do not allow runoff to occur. Applications to building structures higher than 3 feet; all outdoor applications to impervious surfaces are limited to spot and crack-and-crevice applications only.

**STORAGE and DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE** – Mix as needed. Store in original container in a secured, dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled, on floor or paved surfaces, absorb on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for your disposal. Concentrate is stable at normal storage temperatures. **PESTICIDE DISPOSAL** - Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL** – Nonrefillable container. Do not reuse or refill this container. Triple rinse (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 after the flow begins to drip. Repeat this procedure two more times. 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.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Central Garden & Pet Company's control, it is impossible for Central Garden & Pet Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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