



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 21, 2020

Nancy Huebl  
Senior Registration Specialist  
Central Garden & Pet Company  
1501 E. Woodfield Rd Suite 200W  
Schaumburg, IL 60173

Subject: Notification per PRN 98-10 – Addition of chart to reference new package size, other minor label changes  
Product Name: RMI-2011-C 0.67% DIFLUBENZURON CATTLE SUPPLEMENT  
EPA Registration Number: 89459-2  
Application Date: January 21, 2020  
Decision Number: 560220

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.

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, please contact David Gardner at (703) 347-8599 or by email at [gardner.david@epa.gov](mailto:gardner.david@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Shanta Adeeb".

Shanta Adeeb, Product Manager 10  
Invertebrate-Vertebrate Branch 2  
Registration Division (7505P)  
Office of Pesticide Programs

[ ] and ( ) optional language

**DIFLUBENZURON      GROUP      15      INSECTICIDE**

**RMI-2011-C**

**0.67% DIFLUBENZURON CATTLE SUPPLEMENT**

Alternate brand name: ClariFly® Larvicide Livestock Premix 0.67%

[(Stops)(Prevents the)] [(development)(emergence)] of (Horn flies) (Face flies) (House flies) and (Stable flies) in the manure [(of)(from)] treated (cattle) (lactating and non-lactating beef and dairy cows, slaughter, stocker and feeder cattle and calves including veal calves) (horses) (swine)]

[(Stops)(Prevents the)] [(development)(emergence)] of (House flies) and (Stable flies) larvae in the manure [(of)(from)] treated [(sheep) (and) (goats)]

Insect Growth Regulator (IGR) for continuous feeding during the fly season

(Daily) feed concentrate for (beef and dairy) (cattle) (horses) (swine) (sheep) (and) (goats)

containing [(diflubenzuron) (brand name) Insect Growth Regulator (IGR) for continuous feeding during the fly season

[Listed (Fly larvicide)(fly control)] for [(beef and dairy cattle) (horses) (swine) (sheep) (and) (goats) ]

[(Stops)(Prevents the)] development of (Horn fly) (Face fly) (House fly) and (Stable fly) larvae in manure [(of)(from)] treated [(beef and dairy cattle) (horses) (swine)]

[(Stops)(Prevents the)] [(development)(emergence)] of listed fly species in the [(manure)(waste)] of treated swine (including nursery, grow-finish and breeding stock).

[(Stops)(Prevents the)] [(development)(emergence)] of (House fly) and (Stable fly) larvae in manure [(of)(from)] treated [(sheep) (and) (goats)]

Contains [(diflubenzuron)(brand name)(Insect Growth Regulator)(IGR)(chitin synthesis inhibitor)]

Breaks the listed [(fly)(flies')] life cycle(s)

Prevents the [(formation)(synthesis)] of (chitin in) listed fly larvae's exoskeletons (when they molt)(resulting in their death)

(Can be used as) part of [(an integrated)(a total)(a complete)] (fly control)(pest management) program

[(For control of)(Controls) listed fly species [(developing) (growing)] in manure [of treated (cattle)(horses)(swine)(sheep)(and)(goats)]]

**Ideal package size to treat 50 lbs of loose mineral**

**ACTIVE INGREDIENT** (% by weight):

Diflubenzuron\* (CAS# 35367-38-5) ..... 0.67%

**OTHER INGREDIENTS** [\*\*] ..... 99.33%

TOTAL ..... 100.00%

\*contains 3.04 grams of diflubenzuron per pound.

[\*\* Refers only to ingredients which are not larvicidal.]

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**NOTIFICATION**

89459-2

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:

07/21/2020

EPA Reg. No. 89459-2

NET WT: xx lbs. (xx kg.)

EPA Est. No.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

<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.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents, call 1-800-347-8272, 24 hours per day, 7 days per week.</p>	

**PERSONAL PROTECTIVE EQUIPMENT:** Mixers and other handlers must wear long-sleeved shirt and pants, shoes plus socks, and chemical resistant gloves made of nitrile rubber, barrier laminate, neoprene rubber or viton ≥ 14 mils. Follow 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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic invertebrates. Do not contaminate water when disposing of equipment washwaters.

**PRODUCT INFORMATION**

[(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67% )(this product)] is intended for blending into feeds or supplements for (beef and dairy) (cattle) (horses) (swine) (sheep) (and) (goats) rations to control listed fly species. This product prevents emergence of listed adult flies from the manure of the treated (cattle) (horses) (swine) (sheep) (and) (goats). Use [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] only in (beef and dairy) (cattle) (horse) (swine) (sheep) (and) (goats) supplements/rations.

Use [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement) (ClariFly® Larvicide Livestock Premix 0.67%) (this product)] as part of a(n) [integrated][pest][fly][control] [management] program aimed at reducing fly populations in the treated (cattle’s) (horse’s) (swine’s) (sheep’s) (goat’s) environment. Consult your [veterinarian][or][retailer] for program recommendations. In order to achieve optimum fly control, use [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] in conjunction with [other][brand name] premise and on-animal products as well as good management and sanitation practices.

## DIRECTIONS FOR USE

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

[(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] contains diflubenzuron, [an][insect growth regulator][IGR] which prevents the development of (horn flies) (face flies) (house flies) (and) (stable flies) in the manure of treated (beef and dairy cattle) (horses) (and)(swine), but is not effective against existing adult flies.] [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] contains diflubenzuron, [an][insect growth regulator][IGR] which prevents the development of (house flies) (and) (stable flies) in the manure of treated (sheep) (and)(goats), but is not effective against existing adult flies.] Start feeding [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] early in the spring [(3-4 weeks)(30 days)(1 month) before listed flies begin to appear, and continue feeding throughout the summer and into the fall until cold weather (restricts)(stops)(ends) fly activity. In some cases, supplemental fly control measures may be needed in and around (pastures) (barns) (feedlots) (pens) (and) (facilities) to control adult house and stable flies which can breed in other decaying [(organic)(vegetable)] matter or silage in the area, or that migrate in from other locations.

The dosage of [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] is proportional to the animal's body weight and must be offered daily throughout the entire fly season. The following table [(gives dosage information)(provides the feeding rate)] for all approved species.

Species	Daily Feeding Rate of DFB AI	
	mg/kg	mg/cwt
<b>Cattle</b> - [(Brand name)(This product)] may be fed to beef and dairy cattle, including breeding cattle, lactating dairy cattle, growing and finishing cattle and calves, either in dry lot or on pasture up to slaughter and to lactating dairy cows without withholding milk from market during or after treatment.	0.10	4.55
<b>Horses</b> - [(Brand name)(This product)] may be fed to horses including ponies, burros, and donkeys.	0.15	6.82
<b>Swine</b> - [(Brand name)(This product)] may be fed to swine including nursery, grow-finish, and breeding stock (excluding limit fed gestating sows) with no withdrawal period. Use the higher inclusion rate for lighter weight pigs.	0.20 – 0.30	9.10 – 13.64
<b>Limit Fed Gestating Swine</b> - [(Brand name)(This product)] may be fed to limit fed gestating sows with no withdrawal period.	0.10	4.55
<b>Sheep and Goats</b> - [(Brand name)(This product)] may be fed to sheep and goats with no withdrawal period.	0.40	18.18

## CATTLE MIXING DIRECTIONS

### MIXED WITH FREE-CHOICE MINERALS

Mix [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with free-choice-fed minerals to produce a [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] and mineral mixture as shown in the table below<sup>1</sup>.

#### 4 OZ. PER DAY FEEDING RATE

<b>RMI-2011-C 0.67% Diflubenzuron Cattle Supplement</b>	<b>3.25</b>	<b>lbs</b>	<b>6.10%</b>
<b>Free-Choice Minerals</b>	<b>50</b>	<b>lbs</b>	<b>93.90%</b>
<b>Total</b>	<b>53.25</b>	<b>lbs</b>	<b>100.00%</b>

#### 4 OZ. PER DAY FEEDING RATE

<b>RMI-2011-C 0.67% Diflubenzuron Cattle Supplement</b>	<b>13</b>	<b>lbs</b>	<b>6.10%</b>
<b>Free-Choice Minerals</b>	<b>200</b>	<b>lbs</b>	<b>93.90%</b>
<b>Total</b>	<b>213</b>	<b>lbs</b>	<b>100.00%</b>

#### 2 OZ. PER DAY FEEDING RATE

<b>RMI -2011-C 0.67% Diflubenzuron Cattle Supplement</b>	<b>13.5</b>	<b>lbs</b>	<b>11.89%</b>
<b>Free-Choice Minerals</b>	<b>100.0</b>	<b>lbs</b>	<b>88.11%</b>
<b>Total</b>	<b>113.5</b>	<b>lbs</b>	<b>100.00%</b>

<sup>1</sup>These calculations are based on a 1,000 pound animal.

Place the [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] plus mineral mixture in feeders close to water sources and/or resting areas. Use one feeder for each 15 to 20 head. Fill the feeders with no more than a 5 to 7 day supply of the mixture at one time, and protect the mixture from rain.

## MIXED-RATION FEEDING

Use the table below as a guide for mixing [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.

Body Weight (lbs.)	Feed Intake as a % body wt.	Feed Intake (lbs. /head /day)	RMI -2011-C 0.67% Diflubenzuron Cattle Supplement	
			[(oz./ton)]	[(lbs./ton)]
100-200	See table below: "For Formulating Calf Starters (and Milk Replacers)			
250	1.50%	3.75	[31.9]	[2.0]
500	1.50%	7.50	[31.9]	[2.0]
750	1.50%	11.25	[31.9]	[2.0]
1000	1.50%	15.00	[31.9]	[2.0]
1500	1.50%	22.50	[31.9]	[2.0]
250	2.00%	5.00	[23.9]	[1.5]
500	2.00%	10.00	[23.9]	[1.5]
750	2.00%	15.00	[23.9]	[1.5]
1000	2.00%	20.00	[23.9]	[1.5]
1250	2.00%	25.00	[23.9]	[1.5]
250	2.50%	6.25	[19.1]	[1.2]
500	2.50%	12.50	[19.1]	[1.2]
750	2.50%	18.75	[19.1]	[1.2]
1000	2.50%	25.00	[19.1]	[1.2]
1500	2.50%	37.50	[19.1]	[1.2]
250	3.00%	7.50	[15.9]	[1.0]
500	3.00%	15.00	[15.9]	[1.0]
750	3.00%	22.50	[15.9]	[1.0]
1000	3.00%	30.00	[15.9]	[1.0]
1250	3.00%	37.50	[15.9]	[1.0]

$$\text{Inclusion of RMI-2011-C} = \text{Supplement (lbs/ton)} = \frac{\text{Body Weight (lbs)}}{100} \times 3 \times \text{Average Daily Feed Intake (lb)}$$

Thoroughly mix [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement. The mixing and feeding rates in the above table will provide the required daily intake of [(0.10 mg diflubenzuron/kg of body weight)(4.54 mg diflubenzuron/100 lbs. of body weight)] per day.

**FOR FORMULATING CALF STARTERS (AND MILK REPLACERS)**

For formulating calf starters and milk replacers to be fed to calves weighing between 50 and 200 pounds, use the following table:

CALF WEIGHT	FEED INTAKE lbs/head/day	INCLUSION RATE	
		lbs of (Brand name)/ton	g of Diflubenzuron/ton
50 – 99 lbs	1.0 – 1.4	3.0	9.1
100 – 150 lbs	1.0 – 1.4	4.5	13.6
100 – 170 lbs	1.5 – 1.7	3.6	10.9
100 – 200 lbs	≥1.8	3.0	9.1

**EQUINE MIXING DIRECTIONS  
MIXED-RATION FEEDING**

Use the formula below to calculate the inclusion level of [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.

$$\text{Inclusion of RMI-2011-C} = \frac{\text{Body Weight (lbs)}}{\text{Average Daily Feed Intake (lb)}} \times 4.5$$

= Supplement (lbs/ton)

Thoroughly mix [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.

**SWINE MIXING DIRECTIONS  
MIXED-RATION FEEDING**

Use the formulas below to calculate the inclusion level of [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement based on the target dosage. Use the higher inclusion rate for lighter weight pigs.

Use the following equation when calculating inclusion level based on a **0.20 mg/kg dosage:**

$$\text{Inclusion of RMI-2011-C Supplement (lbs/ton)} = \frac{\text{Body Weight (lbs)}}{100} \times \frac{6}{\text{Average Daily Feed Intake (lb)}}$$

Use the following equation when calculating inclusion level based on a **0.30 mg/kg dosage:**

$$\text{Inclusion of RMI-2011-C Supplement (lbs/ton)} = \frac{\text{Body Weight (lbs)}}{100} \times \frac{9}{\text{Average Daily Feed Intake (lb)}}$$

Use the following equation when calculating inclusion level based on a **0.10 mg/kg dosage:**  
This ration for limit fed gestating sows only.

$$\text{Inclusion of RMI-2011-C Supplement (lbs/ton)} = \frac{\text{Body Weight (lbs)}}{100} \times \frac{3}{\text{Average Daily Feed Intake (lb)}}$$

Thoroughly mix [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.



**SHEEP AND GOAT MIXING DIRECTIONS  
MIXED-RATION FEEDING**

Use the formula below to calculate the inclusion level of [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.

$$\begin{array}{r} \text{Inclusion of RMI-2011-C} \\ \text{= Supplement (lbs/ton)} \end{array} \quad \frac{\text{Body Weight (lbs)}}{100} \quad \times \quad 12 \quad \frac{\text{Average Daily}}{\text{Feed Intake (lb)}}$$

Thoroughly mix [(RMI-2011-C 0.67% Diflubenzuron Cattle Supplement)(ClariFly® Larvicide Livestock Premix 0.67%)(this product)] with grain or a feed supplement.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals. Do not contaminate with pesticides or fertilizer.

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mixing equipment. Then offer for recycling, if available, or dispose of bag in a sanitary landfill or by other procedures approved by state and local authorities.

## **CONDITIONS OF WARRANTY AND LIMITATION OF LIABILITY**

Read the entire Directions for Use, Conditions 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, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Central Garden & Pet Company. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Central Garden & Pet Company makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Central Garden & Pet Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Central Garden & Pet Company disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Central Garden & Pet Company's election, the replacement of product.

[Manufactured for]

Central Garden & Pet Company  
1501 E. Woodfield Road, Suite 200W  
Schaumburg, IL 60173  
Made in USA.



## IMPLEMENT THE OPTIMUM IPM

House flies, stable flies, face flies and horn flies are pervasive and resilient pests. Make the most of your control efforts by incorporating an integrated pest management program (IPM) with (Brand name)(this product). The ideal program will hit flies where they breed, and can help reduce populations to manageable levels.

## IPM PROGRAM OVERVIEW

### PLANNING

- Assess your operation and find the fly hot spots.
- Establish a plan to minimize pest damage by the most economical means, utilizing various control measures.
- Set an action threshold, a point at which pest populations or environmental conditions indicate that pest control action must be taken.
- Train other employees on the plan.

### IMPLEMENTATION

#### Sanitation Control

- Keep buildings in good repair and your grounds free of debris where flies can breed.
- Keep animal areas as clean and dry as possible. Flies lay their eggs in manure, decaying silage, spilled feed, and soiled bedding.
- Calf hutches and other temporary housing that are clean, well ventilated, and relocated with regularity will address a major breeding area for flies.
- Keep feed storage areas, bunks, and water troughs in good repair, clean, and as dry as possible.
- Keep grass and weeds around barns, feeders, hutches, and manure piles cut low. Overgrown areas provide an ideal resting and breeding ground for flies.

#### Non-Insecticidal Controls

- The Starbar® line of sticky/jug traps can be used for controlling adult flies and are ideal for keeping track of control efforts.
- Traps are good for areas where conventional chemical control is out of the question such as milking parlors and feeding areas.

#### Traditional Chemical Controls

- Scatter baits from Starbar® such as QuikStrike® and Golden Malrin®, and Cyanarox™ Scatter Baits are a form of chemical control that can be used in rotation to fight fly resistance. Scatter baits can be used in a variety of locations (consult labels) around the operation. However, keep away from animals and children.

#### IGR Larvicide Controls

- Incorporate an IGR larvicide into all (cattle)(horse)(swine)(animal) feed.

## **EVALUATION**

- Keep track of fly populations with speck cards as well as non-insecticidal jug and sticky traps.
- Document your progress with a concise record of locations, conditions, and action taken.
- Rotate traditional chemical control products to fight fly resistance.

No one aspect of an IPM will eliminate flies. Incorporation of all these steps into one program is key. (Brand name)(this product) is an important component to help control fly populations in a successful IPM program on your operation. For more information about (brand name)(this product), call 1-800-XXX-XXXX or visit [URL]. For more information about Starbar® products, visit [starbarproducts.com](http://starbarproducts.com)