

CLARIFLY® LARVICIDE LIVESTOCK PREMIX 0.67%

Central Life Sciences

SPECIMEN LABEL

DIFLUBENZURON GROUP 15 INSECTICIDE

- USE AS PART OF AN INTEGRATED PEST MANAGEMENT PROGRAM FOR CONTROL OF LISTED FLY SPECIES DEVELOPING IN THE MANURE OF TREATED CATTLE, EQUINE, SWINE, SHEEP AND GOATS

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.

EPA Reg. No. 89459-2

EPA Est. Nos. See container for reference

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

FIRST AID

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

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.

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.

USE INFORMATION: ClariFly® Larvicide Livestock Premix 0.67% (ClariFly® Premix) is intended for blending into feeds or supplements for beef and dairy cattle, equine, swine, sheep and goat rations to control listed fly species. This product prevents emergence of listed adult flies from the manure of the treated cattle, equine, swine, sheep and goats. Use this product only in cattle, equine, swine, sheep and goat supplements/rations.

Use ClariFly® Premix as part of an integrated pest management program aimed at reducing fly populations in the treated environment. Consult your veterinarian or retailer for program recommendations. In order to achieve optimum fly control, use this product in conjunction with Starbar® 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.

ClariFly® Premix contains diflubenzuron, which prevents the development of horn flies, face flies, house flies, and stable flies in the manure of treated beef and dairy cattle, but is not effective against existing adult flies. ClariFly® Premix contains diflubenzuron, which prevents the development of house flies and stable flies in the manure of treated equine, swine, sheep and goats, but is not effective against existing adult flies. Start feeding ClariFly® Premix early in the spring 30 days before listed flies begin to appear,

and continue feeding throughout the summer and into the fall until cold weather restricts fly activity. In some cases, supplemental fly control measures may be needed in and around pastures, barns, and feedlots to control adult house and stable flies which can breed in other decaying organic matter or silage in the area, or that migrate in from other locations.

The dosage of **ClariFly® Premix** is proportional to the animal's body weight and must be offered daily throughout the entire fly season. The following table provides the feeding rate for all approved species.

Species	Daily Feeding Rate of diflubenzuron AI	
	mg/kg	mg/cwt
Cattle - 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
Equine - may be fed to equine including ponies, burros, and donkeys.	0.15	6.82
Swine - 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
Limit Fed Gestating Swine - may be fed to limit fed gestating sows with no withdrawal period.	0.10	4.55
Sheep and Goats - may be fed to sheep and goats with no withdrawal period.	0.40	18.18

CATTLE MIXING DIRECTIONS

MIXED WITH FREE-CHOICE MINERALS

Mix with free-choice-fed minerals to produce a **ClariFly® Premix** mineral mixture as shown in the table below¹.

	4 OZ PER DAY FEEDING RATE		2 OZ PER DAY FEEDING RATE	
ClariFly® Premix	13 lb	6.10%	13.5 lb	11.89%
Free-Choice Minerals	200 lb	93.90%	100.0 lb	88.11%
Total	213 lb	100.00%	113.5 lb	100.00%

¹These calculations are based on a 1,000 pound animal.

Place the **ClariFly® Premix** 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 **ClariFly® Premix** with grain or a feed supplement.

Body Weight (lbs)	Feed Intake as a % Body Weight	Feed Intake (lbs/head/day)	ClariFly® Premix (lbs/ton)
50-200	See table: "For Formulating Calf Starters"		
250	1.50%	3.75	2.0
500	1.50%	7.50	2.0
750	1.50%	11.25	2.0
1000	1.50%	15.00	2.0
1500	1.50%	22.50	2.0
250	2.00%	5.00	1.5
500	2.00%	10.00	1.5
750	2.00%	15.00	1.5

1000	2.00%	20.00	1.5
1250	2.00%	25.00	1.5
250	2.50%	6.25	1.2
500	2.50%	12.50	1.2
750	2.50%	18.75	1.2
1000	2.50%	25.00	1.2
1500	2.50%	37.50	1.2
250	3.00%	7.50	1.0
500	3.00%	15.00	1.0
750	3.00%	22.50	1.0
1000	3.00%	30.00	1.0
1250	3.00%	37.50	1.0

Inclusion of **ClariFly® Premix** (lbs/ton) = $\frac{\text{Body weight (lbs)} \times 3}{\text{Average Daily Feed Intake (lb)}}$

Thoroughly mix **ClariFly® Premix** with grain or a feed supplement. The mixing and feeding rates in the previous table will provide the required daily intake of 0.10 mg diflubenzuron/kg of body weight per day.

FOR FORMULATING CALF STARTERS: For formulating calf starters to be fed to calves weighing between 50 and 200 pounds, use the following table:

CALF WEIGHT	FEED INTAKE lb/head/day	INCLUSION RATE	
		lb of ClariFly® Premix /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 **ClariFly® Premix** with grain or a feed supplement.

Inclusion of **ClariFly® Premix** (lbs/ton) = $\frac{\text{Body weight (lbs)} \times 4.5}{\text{Average Daily Feed Intake (lb)}}$

Thoroughly mix this product with grain or a feed supplement.

SWINE MIXING DIRECTIONS

MIXED-RATION FEEDING

Use the formulas below to calculate the inclusion level of **ClariFly® Premix** 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:**

Inclusion of **ClariFly® Premix** (lbs/ton) = $\frac{\text{Body weight (lbs)} \times 6}{\text{Average Daily Feed Intake (lb)}}$

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

Inclusion of **ClariFly® Premix** (lbs/ton) = $\frac{\text{Body weight (lbs)} \times 9}{\text{Average Daily Feed Intake (lb)}}$

Use the following equation when calculating inclusion level based on a **0.10 mg/kg dosage:**

This ration for limit fed gestating sows only.

Inclusion of **ClariFly® Premix** (lbs/ton) = $\frac{\text{Body weight (lb)} \times 3}{\text{Average Daily Feed Intake (lb)}}$

Thoroughly mix 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 **ClariFly® Premix** with grain or a feed supplement.

$$\text{Inclusion of ClariFly® Premix (lbs/ton)} = \frac{\text{Body weight (lb)} / 100 \times 12}{\text{Average Daily Feed Intake (lb)}}$$

Thoroughly mix 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 the 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.

IPM

INTEGRATED PEST MANAGEMENT

PLANNING

- Forecasting
- Education
- Identification
- Training

IMPLEMENTATION

- Sanitation
- Exclusion
- Monitor/Reassessing
- Physical Controls

EVALUATION

- Inspection
- Critique

- Learn
- Documentation

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 **ClariFly® Larvicide Livestock Premix 0.67% (ClariFly® Premix)**. 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™ 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, equine and/or swine feeds.

EVALUATION

- Keep track of fly populations with speck cards as well as non-insecticidal jugs 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. **ClariFly® Premix** is an important component to help control fly populations in a successful IPM program on your operation. For more information about ClariFly® Larvicide, call 1-800-347-8272 or visit centralflycontrol.com. For more information about Starbar® products visit starbarproducts.com.



NOTICE: This product can expose you to silica, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

Manufactured for:

Central Garden & Pet Company, 1501 East Woodfield Road 200W, Schaumburg, Illinois 60173
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Schaumburg, IL

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CPN: 1841001.4

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