

Contains lambda-cyhalothrin, the active ingredient used in Karate®.



# **SERPENT™** **1 EC**

## **CONSTRICT INSECT THREATS IN RANGE & PASTURES WITH LAMBDA-CYHALOTHRIN**

Serpent™ 1 EC offers a fast, potent lambda-cyhalothrin formulation for broad-spectrum insect control in range and pasture settings. This powerful insecticide provides a dual mode of action, ensuring both immediate knockdown and long-lasting protection. Serpent 1 EC acts on both contact and through ingestion, effectively combating troublesome pests like grasshoppers, armyworms, and billbugs. Thanks to its low water solubility, Serpent 1 EC remains active for extended periods, safeguarding your vegetation for longer control. It's also an excellent tank-mixing partner, allowing compatibility with most fungicides and insecticides for comprehensive coverage and protection. Strike down insects and defend your land with the flexibility and productivity of Serpent 1 EC.

### **KEY BENEFITS**

- Broad-spectrum control with immediate knockdown
- Dual modes-of-action
- Extended residual activity
- Easy-to-use formulation with low-use rates
- Excellent tank-mix partner

### **KEY USES**

- Grass Grown For:
  - Hay
  - Silage
  - Seed
- Pastures
- Ranges



### **PRODUCT NOTES**

**EPA REGISTRATION NUMBER**  
91234-55

**ACTIVE INGREDIENT**  
Lambda-cyhalothrin 13.1%

**FORMULATION**  
Emulsifiable Concentrate

**IRAC NUMBER**  
3

**SIGNAL WORD**  
Danger

**PACKAGE SIZE**  
4 x 1 gal  
265 gal

**RESTRICTED USE**  
Yes

*Refer to label for specific use restrictions.*



**Relevant. Simple. Reliable.**



## PASTURE & RANGELAND APPLICATION INFORMATION

### GRASS GROWN FOR HAY, SILAGE, AND SEED

Serpent 1 EC should be applied as required by scouting. The timing and frequency of applications should be based on insect populations reaching locally determined economic thresholds.

Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of total solution per acre. When applying by ground, a minimum of 7 gallons of total solution per acre is recommended. Use higher application volumes and rates in scenarios when foliage is dense, pest populations are high, larvae are large, or weather conditions are adverse. Use higher rates for longer residual.

For chinch bug control, Serpent 1 EC may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed. Greenbug is known to have many biotypes. Serpent 1 EC may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.

Pasture and rangeland grass may be used for grazing or cut for forage 0 days after application. Do not cut grass to be dried and harvested for hay until 7 days after the last application. For grass grown for seed, straw and mature seed (seed screenings) may be used as feed 7 days after the last application. The regrowth of grass grown for seed can be utilized for grazing, cut for forage, or cut to be dried and harvested for hay.

Depending on the target pest listed in the product label, apply 1.92 - 3.84 fl oz/A of Serpent 1 EC. Do not apply more than 3.84 fl oz/A per cutting for pastures, rangeland and grasses grown for seed. A minimum re-treatment interval of 30 days is required for pastures and rangeland receiving 3.84 fl oz/A which have not been cut between applications. Do not apply more than 11.52 fl oz/A per season.

## KEY INSECTS

Army cutworm  
Beet armyworm  
Billbug species\*  
Bird cherry-oat aphid  
Black grass bug  
Black turfgrass beetle\*\*  
Blue stem midge  
Cereal leaf beetle  
Chinch bug  
Crane fly species  
Cricket species  
Cutworm species  
English grain aphid  
Essex skipper  
Fall armyworm  
Flea beetle species  
Grass mealybug  
Grass sawfly\*\*  
Grasshopper species  
Green June beetle\*\*  
Greenbug  
Japanese beetle\*\*  
Katydid species  
Leafhopper species  
Mite species\*  
Range caterpillar  
Russian wheat aphid  
Southern armyworm  
Spittlebug species  
Stink bug species  
Sugarcane aphid  
Thrips species  
Tick species  
True armyworm  
Webworm species  
Yellowstriped armyworm  
Whiteflies

\*Suppression Only

\*\*Adult

(Refer to product label for complete list)

Refer to product label for complete application and mixing instructions.

Serpent™ 1 EC is an EPA Restricted Use Pesticide.

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