

Supplemental Labeling



EPA Reg. No.: 279-3370
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DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

This supplemental labeling must be in the possession of the user at the time of pesticide application. Read the label affixed to the container for ZEUS Herbicide before applying. Carefully follow all precautionary statements and application use directions.

STRAWBERRY

ZEUS Herbicide Use Rate Table (Strawberry)			
Broadcast Rate	Fluid Ounces ZEUS Herbicide per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5%	2.25 – 3.0	3.0 – 4.5.0	3.0 – 6.0
1.5 – 3.0 %	3.0 – 6.0	6.0 – 9.0	6.0 – 9.0
>3.0 %	6.0 – 9.0	6.0 – 12.0	6.0 – 12.0
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories. Use higher rates for soils of pH less than 7.0 and lowest rates for pH greater than 7.0 within the rate range.			

NEW STRAWBERRY PLANTINGS

Pre-Transplant

ZEUS herbicide can be applied prior to transplanting and before weed seedlings have emerged. Use a burndown herbicide labeled for use on strawberry beds if emerged weeds are present. For increased weed control, ZEUS herbicide may be applied in combination with or, followed by other herbicides labeled for use on strawberries.

For strawberries grown with plastic or organic mulches, apply ZEUS to the soil surface prior to installing the mulch. Condensation under plastic mulch will provide adequate moisture to activate the herbicide. DO NOT apply ZEUS herbicide over the top of plastic or organic mulch.

ESTABLISHED STRAWBERRY PLANTINGS

Dormancy

Apply to established plantings at dormancy. ZEUS applications to desirable foliage may cause severe crop injury. If emerged weeds are present at the time of application, tank mix ZEUS with another herbicide labeled for use in strawberries with post emergent activity. Do not apply within 56 days of harvest.

Row Middles (wheel rows)

Apply ZEUS in a band to row middles between planting beds using a directed spray or, hooded or shielded sprayers. Do not allow spray to contact emerged crops. Severe crop injury will occur if spray solutions of ZEUS contact desirable vegetation, stems, fruit, or blooms. Any spray contacting strawberry foliage, flowers, or fruit will cause severe crop damage. If emerged weeds are present,

tank mix with ZEUS with another herbicide labeled for use in strawberries with post emergent activity. Do not apply within 3 days of harvest.

Minimize spray contact with the plastic bed cover to prevent crop plants from contacting treated plastic or washing of the herbicide into the plant hole. DO NOT apply directly to plastic mulch.

Weeds Controlled

ZEUS is a selective soil-applied herbicide for the control of susceptible broadleaf, grass and sedge weeds listed in the weed control tables. Adequate moisture of at least ½ inch is required within 14 days after application for optimal control. If adequate rainfall is not received in a timely fashion, irrigate with a minimum of ½ inch of water. When activating moisture is delayed, a reduced level of weed control may occur. These escaped weeds can be removed using a burndown herbicide.

Tank mix ZEUS with a burndown herbicide and use an appropriate adjuvant when weeds are present at the time of application. Refer to the tank mix partner's product label for the proper use rates by weed sizes. Use the most restrictive label limitations and precautions of the tank mix product(s).

When applied according to directions, ZEUS Herbicide will provide control of:

Bindweed, field (seedling) suppression	Nightshade, Black
Cheeseweed (Common Mallow and Little Mallow)	Nightshade, Eastern Black
Groundsel, common	Pigweed, prostrate
Knotweed, common	Pigweed, redroot
Ladysthumb	Pigweed, smooth
Lambsquarters, common	Pineapple weed
Mayweed	Prostrate knotweed
Mallow, Common	Purslane, common
Mallow, Little	Shepherdspurse
Morningglory, ivyleaf	Waterhemp, common
Nettle, Burning	Waterhemp, tall

ANNUAL AND PERENNIALSEDGE CONTROL INCLUDING NUTSEDGE

ZEUS may provide control or suppression of sedges whether applied preemergence or postemergence to the sedges. Postemergence applications to sedges allow ZEUS to be taken into the sedge through the foliage as well as soil uptake through the roots. Soil uptake is the major means of uptake by sedges. Good spray coverage is required for optimum control of sedges especially when applying postemergence to the sedges. Use a quality federally approved nonionic surfactant (NIS) at the rate of 0.25% v/v when applying postemergence.

When applied as directed, ZEUS will provide control or suppression of the following sedges.

Common Name	Scientific Name
Kyllinga, green	<i>Kyllinga brevifolia</i>
Kullinga, false green	<i>Kyllinga gracillima</i>
Nutsedge, purple	<i>Cyperus rotundus</i>
Nutsedge, yellow	<i>Cyperus esculentus</i>
Sedge, cylindrical	<i>Cyperus retrorsus</i>
Sedge, globe	<i>Cyperus globulosus</i>
Sedge, Surinam	<i>Cyperus surinamensis</i>
Sedge, Texas	<i>Cyperus polystachyos</i>

ZEUS Herbicide will aid in the management of yellow and purple nutsedge populations by weakening existing nutsedge plants. The degree of suppression depends on the rate of ZEUS applied, moisture, soil conditions, the depth of nutsedge nutlets, weather, and the interval between ZEUS application and nutsedge emergence in the spring.

Soil uptake is the major means of uptake by sedges however, postemergence applications to sedges allow ZEUS to be taken into the sedge through the foliage as well as soil uptake through the roots. Good spray coverage is required for optimum control of sedges especially when applying postemergence to the sedges. Use a quality federally approved nonionic surfactant (NIS) at the rate of 0.25% v/v when applying postemergence. Best suppressive activity is attained when nutsedge plants are small with 6 or fewer leaves.

Optimum control of purple nutsedge may be obtained using split applications of ZEUS. Apply 4-6 fluid ounces per acre followed by a second application to actively growing purple nutsedge. Do not exceed the maximum rate of 12 fluid ounces (0.375 lb ai/A) per year. ZEUS symptoms on purple nutsedge will be observed as reduced nutsedge stands, necrosis, chlorosis, and/or stunting. Optimum control may not be observed until the second year after the original treatment.

Precautions

These Crop Specific Use directions are based upon the interactive effects of ZEUS Herbicide (sulfentrazone) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, ZEUS Herbicide Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with ZEUS Herbicide. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on ZEUS Herbicide under specific local conditions.

Severe crop injury will occur if spray solutions of ZEUS contact desirable vegetation, stems, fruit, or blooms. Any spray contacting strawberry foliage, flowers, or fruit will cause severe crop damage.

Restrictions

Do not apply more than 12 ounces (0.375 pound active) per acre of ZEUS Herbicide per application or per twelve-month period for preplant, dormant, or postemergent uses combined. The twelve-month period is considered to begin upon the initial ZEUS application.

The minimum retreatment interval is 60 days.

Do not apply directly on the crop after the crop emerges.

Apply using ground equipment only; do not use airblast sprayer or apply by air.

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