

# **FIELD CROPS - STANDARD APPLICATION - PERENNIAL GRASSES - MIDWEST, SOUTH, AND NORTHEAST**

## General Information

### GENERAL INFORMATION

Sethoxydim E-Pro Herbicide is a selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds in alfalfa, birdsfoot trefoil, citrus, clover, corn (Poast protected), cotton, peanuts, sainfoin, soybean, turf, ornamentals, nonfood and noncrop sites listed on the label. Sethoxydim E-Pro does not control sedges or broadleaf weeds. Essentially, all grass crops, such as sorghum, corn, small grains, and rice, as well as ornamental grasses, such as turf, are susceptible to Sethoxydim E-Pro. A program for total vegetation suppression may necessitate the use of a broadleaf herbicide. Any combination treatment using Sethoxydim E-Pro either tank mixed or sequential should be tested to determine if seedhead growth suppression is maintained without increased injury or discoloration to tall fescue or other desired plant species. A reduction in grass competition may make certain broadleaf weeds appear more prominent or may allow new weeds to germinate.

### Mode of Action

Sethoxydim E-Pro rapidly enters the targeted grass weed through its foliage and translocates throughout the plant. The effects range from slowing or stopping growth (generally within 2 days), to foliage reddening and leaf tip burn.

Subsequently, foliage burnback occurs. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

### Crop Tolerance

All labeled crops are tolerant to Sethoxydim E-Pro at all stages of growth. Leaf speckling may occur, but plants generally outgrow this condition within 10 days. New growth is normal and crop vigor is not reduced.

Notice to user: Due to variability within species, and in application techniques and equipment, and the number of tank mix combinations, neither the manufacturer nor

the seller has determined whether or not Sethoxydim E-Pro can safely be used on all varieties and species of nonbearing food crops, trees, shrubs, ornamentals, bedding plants, ground covers, nursery, wildflowers, Christmas trees, turf and other nonfood crops under all conditions. It is recommended that the professional user determine if Sethoxydim E-Pro can be used safely before broad use by applying the recommended use rate of Sethoxydim E-Pro under the conditions expected to be encountered on a small test area. Any adverse effects should be visible within 7 days.

### Resistance

Repeated use of Sethoxydim E-Pro (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes with resistance to these products. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. Consult your local representative or agricultural advisor for assistance.

### Irrigation

In irrigated areas, it may be necessary to irrigate before treatment to ensure active weed growth.

### Coverage

Apply Sethoxydim E-Pro to the foliage of grasses on a spray-to-wet basis uniformly and completely. Dense leaf canopies shelter smaller grassy weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

### Cultivation/Mowing

If cultivation is an option, do not cultivate during the time between 5 days before and 7 days after applying Sethoxydim E-Pro. Cultivating 7-14 days after treatment may help provide season-long control of perennial grasses. Centipedegrass and fine fescue areas should not be mowed within 7 days before or after applying Sethoxydim E-Pro. Increased control has been observed when mowing is delayed until 14 days after application. Grass weeds that have been mowed or have regrown from mowed stubble may be controlled poorly. Repeat application if new germination or regrowth occurs.

Refer in the label for tank mix information.

#### Limitations, Restrictions, and Exceptions

APPLICATION AND USE DIRECTIONS FOR: Alfalfa, Birdsfoot Trefoil, Citrus, Clover, Corn (Poast Protected), Cotton, Peanuts, Sainfoin and Soybeans

#### APPLICATION INSTRUCTIONS

Applications can be made to actively growing weeds as aerial, broadcast, band, or spot spray applications at the rates and growth stages listed in Tables 1, 2 and 3, unless instructed differently in the Crop-Specific Information section of the label. The most effective weed control will result from making postemergence applications of Sethoxydim E-Pro early, when weeds are small. Delaying application permits weeds to exceed the maximum size stated and may prevent adequate control.

#### Ground Application Methods and Equipment (Broadcast)

Do not apply Sethoxydim E-Pro when conditions favor drift from target area or when wind speed is greater than 10 mph.

Water Volume: Use 5-20 gallons of spray solution. In the West and in the high and Rolling Plains Region (see the REGIONAL DESCRIPTIONS section following Table 1 of the label), DO NOT use less than 10 gallons of spray solution per acre.

Spray Pressure: Use 40-60 psi (measured at the boom, not at the pump or in the line). When crop and weed foliage are dense, use a maximum of 20 gallons of water and 60 psi.

Application Equipment: Use standard high-pressure pesticide flat fan or hollow cone

nozzles spaced up to 20" apart.

DO NOT use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can cause inconsistent weed control. When tall weeds such as volunteer corn are to be controlled, the boom should be high enough to cover the entire plant. Refer to the nozzle manufacturer's directions for recommended height. When a crop such as cotton is 24" or taller and the grasses are below the crop canopy, use drop nozzles to ensure good coverage of the grass species.

DO NOT use selective application equipment such as recirculating sprayers or wiping applicators.

#### Ground Application (Banding)

Sethoxydim E-Pro may be applied by banding to control annual grasses. Banding is not recommended for perennial grasses.

Follow Ground Application (Broadcast) instructions for band applications.

#### Spot or Small Area Application

DO NOT make spot treatments in addition to broadcast or band treatments. When using knapsack sprayers or high-volume spray equipment with hand guns or other suitable nozzle arrangements, prepare a 1-1.5% solution of Sethoxydim E-Pro Herbicide in water unless otherwise specified under specific crops. Use a concentration of 0.5% for Dash HC and Sundance HC spray adjuvants, or 1% for oil concentrate. Prepare the desired volume of spray solution by mixing the amount of Sethoxydim E-Pro and the amount of Dash HC, Sundance HC or oil concentrate in water according to Tables 5 and 6.

#### GENERAL RESTRICTIONS AND LIMITATIONS - CROP SITES

- Avoid all direct or indirect contact with any desired grass crop unless otherwise recommended on the label.
- Do not apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.

- Do not use UAN or AMS in California.
- Do not apply as a preplant or preemergence treatment before planting grass crops, such as corn, millet, or sorghum, unless otherwise specified on the label.
- Do not use selective application equipment such as recirculating sprayers, wiper applicators, or shielded applicators.
- Rainfast Period: Sethoxydim E-Pro is rainfast 1 hour after application.
- Stress: Do not apply to grasses or crops under stress due to hail damage, flooding, lack of moisture, herbicide injury, mechanical injury or widely fluctuating temperatures, as unsatisfactory control may result. In irrigated areas, it may be necessary to irrigate before application to ensure active weed growth.

## CROPS GROWN FOR SEED

Sethoxydim E-Pro is recommended for use on all crops on the label when they are grown for seed production. Use the Sethoxydim E-Pro rates given for each crop listed in other sections on the label. Slight modifications in application methods may be required for certain seed crops due to crop canopy or different cultural methods from the corresponding food crop.

## FIELD CROPS

When applying to field crops, always add 1.0 pint of Dash HC or Sundance HC spray adjuvant, or 2 pints of oil concentrate per acre. Add 2.5 pounds of AMS or 4.0-8.0 pints of UAN to control crabgrass, volunteer corn and all volunteer cereals. UAN and AMS are not registered in California.

## CORN

Only Poast Plus Protected Field corn hybrids are tolerant to Sethoxydim E-Pro applications. Severe crop injury will occur to corn hybrids not designated as Poast Protected corn.

Not for use in California.

Over-the-top applications of Sethoxydim E-Pro in Poast Protected field corn may be made until the onset of pollen shed provided the appropriate preharvest intervals

are met. Do not apply Sethoxydim E-Pro after pollination occurs.

## REGIONAL DESCRIPTIONS

West & High and Rolling Plains: An area of the Western United States, including Western Texas, Oklahoma and Kansas; west of a line running north from Del Rio to Gainesville, Texas, and extending along Interstate 35 to the Oklahoma-Kansas border, then west along border to Highway 83 and then north to the Kansas-Nebraska border, west to Colorado, all of Colorado to the Continental Divide, then West of the Continental Divide north to the U.S.-Canada border.

Midwest, South, and Northeast: All other regions not listed above.

## Table 2. Standard Application Rates and Timing – Perennial Grasses<sup>1</sup>

All application rate and timing recommendations are based on growing region. Therefore, refer to the REGIONAL DESCRIPTIONS section of the label to ensure application accuracy. Follow the Application Rate and Timing tables for your region only. Refer to Table 7 for the maximum allowable use rates for specific crop and use sites.

## WEEDS

Quackgrass: Add nitrogen to the crop oil concentrate to improve grass control on indicated species. Cultivate 7-14 days after an initial or sequential application to aid control.

- Use 2.5 pints per acre for the following forage crops; alfalfa, clover, birdsfoot trefoil, sainfoin.

## Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Spot treatment](#)

[Band](#)

## Rates

[field\\_rates 0](#)

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## Restricted Entry Interval

12 hours

Timings

[Postemergence \(Weed\)](#)