

BASF

# Poast Plus<sup>®</sup>

herbicide

**Active Ingredient:**

Sethoxydim: 2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one\* ..... 13.0%

**Inert Ingredients:** ..... 87.0%

**Total** ..... 100.0%

\*Equivalent to 1.0 pounds of sethoxydim per gallon

**EPA Reg. No. 7969-88**

**EPA Est. No. 34313-TX-01**

**KEEP OUT OF REACH OF CHILDREN.**

## **CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

See the attached booklet for complete **Precautionary Statements, Statement of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.**

**Net contents:**

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## Precautionary Statements

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### Hazard to Humans and Domestic Animals

Caution. Causes moderate eye injury. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing.

### First Aid

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

**If on skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for category **E** on an EPA chemical resistance category selection chart.

### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or viton  $\geq 14$  mils
- Shoes plus socks

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.

### Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## User Safety Recommendations

### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### Environmental Hazards

For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal

areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

### Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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## Directions For Use

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It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Unless otherwise stated in supplemental labeling, all applicable directions, restrictions and precautions are to be followed. This labeling must be in the user's possession during application.

## Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 hours**. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or viton  $\geq 14$  mils
- Shoes plus socks

### Storage and Disposal

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

**Pesticide Storage:** Do not store below 32° F or above 100° F. Store in a dry place away from heat or open flame. Avoid contamination of feed or foodstuffs.

**Pesticide Disposal:** Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### Container Disposal:

**Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### Bulk/Mini-bulk Containers:

Refillable/reusable containers should be returned to the point of purchase for cleaning and refilling.

### In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC	800-424-9300
BASF Corporation	800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP).

### Steps to be taken in case material is released or spilled:

Wear the personal protective equipment specified on this label. Recover the material for re-use according to label whenever possible. Cover the liquid with an absorbent material (such as pet litter). Sweep up and place in an appropriate container for disposal.

Remove and wash clothing and personal protective equipment prior to re-use. Keep the spill out of all sewers and open bodies of water.

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## I. General Information

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**Poast Plus® herbicide** is a selective, broad spectrum, postemergence herbicide for control of annual and perennial grass weeds. **Poast Plus** 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 **Poast Plus**.

### Mode of Action

**Poast Plus** rapidly enters the target 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 may occur. These symptoms will generally be observed within 3 weeks depending on environmental conditions.

### Crop Tolerance

All labeled crops are tolerant to **Poast Plus** at all stages of growth.

### Herbicide Resistance

Repeated use of **Poast Plus** (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.

### Cultivation

Do not cultivate within 5 days before or 7 days after

applying **Poast Plus**. Cultivating 7 days or later after treatment may help provide season-long control.

### Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

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## II. Application Instructions

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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 section **VI**.

**Crop-Specific Information.** The most effective control will result from making postemergence applications of **Poast Plus** early, when weeds are small. Delaying application permits weeds to exceed the maximum size stated and may prevent adequate control.

Apply **Poast Plus** to the foliage of grasses uniformly and completely because large leaf canopies shelter smaller weeds and can prevent adequate spray coverage. Do not spray to the point of runoff.

### Aerial Application Methods and Equipment

#### Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1 The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2 Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees. Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the [Aerial Drift Reduction Advisory Information](#).

#### Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversion section of this label).

#### Controlling Droplet Size

**Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Use a minimum of 5 gallons of water per acre. Increase water volume to at least 10 gallons of water per acre if grass foliage or crop canopy is dense.

**Table 1. Standard Application Rates and Timing — Annual Grasses**

All application rate and timing recommendations are based on growing region. Therefore, refer to the maps below and descriptions below 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.

Annual Grass	Midwest, South, and Northeast		West & High and Rolling Plains	
	Maximum Height	Rate Per Acre (pints)	Maximum Height	Rate Per Acre (pints)
Barnyardgrass	8"	1.5	8"	2.25
Crabgrass, Large <sup>1</sup>	6"	1.5	4"	2.25
, Smooth <sup>1</sup>	6"	1.5	4"	2.25
Cupgrass, Southwestern	—	—	8"	2.25
, Woolly	8"	1.5	—	—
Fescue, Tall (seedling)	6"	2.25	—	—
Foxtail, Giant	8"	1.5	8"	2.25
, Green	8"	1.5	8"	2.25
, Yellow	8"	1.5	8"	2.25
Goosegrass	6"	1.5	4"	2.25
Itchgrass	4"	3.0	—	—
Johnsongrass (seedling)	8"	1.5	8"	2.25
Junglerice	8"	1.5	8"	2.25
Lovegrass	6"	2.25	—	—
Millet, Wild Proso	10"	0.75	10"	1.5
Oats, Tame	6"	2.25	—	—
, Wild <sup>1</sup>	4"	1.5	4"	2.25
Orchardgrass (seedling)	6"	2.25	—	—
Panicum, Browntop	8"	1.5	8"	2.25
, Fall	8"	1.5	8"	2.25
, Texas	8"	1.5	8"	2.25
Red Rice <sup>1</sup>	4"	3.0	—	—
Ryegrass, Annual	8"	1.5	8"	2.25
Sandbur, Field	3"	1.875	—	—
Shattercane/Wildcane <sup>1</sup>	18"	1.5	18"	2.25
Signalgrass, Broadleaf	8"	1.5	8"	2.25
Sprangletop, Red <sup>3</sup>	8"	1.5	8"	2.25
Stinkgrass	6"	2.25	—	—
Volunteer <sup>2,4</sup> Barley <sup>1</sup>	4"	2.25	4"	3.0
Corn <sup>1</sup>	20"	1.5	12"	2.25
Oats <sup>1</sup>	4"	2.25	4"	3.0
Rye <sup>1</sup>	4"	2.25	4"	3.0
Wheat <sup>1</sup>	4"	2.25	4"	3.0
Witchgrass <sup>1</sup>	8"	1.5	8"	2.25

<sup>1</sup> Add nitrogen to the crop oil concentrate to improve grass control on indicated species. UAN and AMS are not recommended in the Pacific Northwest and are not registered in California.

<sup>2</sup> Apply **Poast Plus® herbicide** before tillering.

<sup>3</sup> **Poast Plus** is not recommended for use on red sprangletop in California, Arizona, or western New Mexico.

<sup>4</sup> In the West Region, volunteer cereals that emerge from late spring through early summer (May through July) may be partially or incompletely controlled because of unfavorable conditions at application time.

**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>**

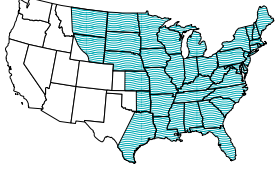
All application rate and timing recommendations are based on growing region. Therefore, refer to the maps below and descriptions in **Table 1** to ensure application accuracy. Follow the **Application Rate and Timing** tables for your region only. Refer to **Table 7** for the maximum allowable use rates for specific crop and use sites.

Perennial Grass	Midwest, South, and Northeast		West & High and Rolling Plains	
	Maximum Height	Rate Per Acre (pints)	Maximum Height	Rate Per Acre (pints)
Bermudagrass	6" stolon	2.25	6" stolon	3.0 <sup>2</sup> -3.75
Johnsongrass (Rhizome)	25"	2.25	10"	2.25 <sup>2</sup> -3.75
Johnsongrass (No-Till)	20"	2.25	—	—
Muhly, Wirestem	6"	1.875	—	—
Quackgrass <sup>1</sup>	8"	2.25	8"	3.75
Ryegrass, Perennial	8"	2.25	8"	2.25
Sequential Application	Maximum Height	Rate Per Acre (pints)	Maximum Height	Rate Per Acre (pints)
Bermudagrass	4" stolon	1.5	4" stolon	2.25 <sup>2</sup>
Johnsongrass (Rhizome)	12"	1.5	8"	1.5 <sup>2</sup> -2.25
Johnsongrass (No-Till)	12"	1.5	—	—
Muhly, Wirestem	6"	1.875	—	—
Quackgrass <sup>1</sup>	8"	1.5	8"	2.25
Ryegrass, Perennial	8"	2.25	8"	2.25

<sup>1</sup> 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.

<sup>2</sup> Use 2.5 pints per acre for the following forage crops: alfalfa, clover, birdsfoot trefoil, sainfoin.

**Table 3. Special Application Rates and Timing for Midwest, South and Northeast**

Annual Grass				
	Special Early Maximum Height	Early Rate Per Acre (Pints)	Rescue Maximum Height	Rescue Rate Per Acre (Pints)
Barnyardgrass	4"	1.125 <sup>1</sup>	12"	2.25
Crabgrass, Large <sup>3</sup>	—	—	8"	2.25
Crabgrass, Smooth <sup>3</sup>	—	—	8"	2.25
Foxtail, Giant <sup>2</sup>	4"	1.125	16"	2.25
Foxtail, Green <sup>2</sup>	4"	1.125	16"	2.25
Foxtail, Yellow <sup>2</sup>	—	—	16"	2.25
Goosegrass	3"	1.125	8"	2.25
Johnsongrass (seedling)	—	—	16"	2.25
Millet, Wild Proso	10"	0.75	24"	1.5
Panicum, Fall	4"	1.125	12"	2.25
Panicum, Texas	4"	1.125	12"	1.5
Signalgrass, Broadleaf	4"	1.125	12"	2.25
Volunteer Corn <sup>3</sup>	12"	1.125	—	—

<sup>1</sup> In the following states use 1.0 pint: AL, AR, FL, GA, LA, MS, NC, SC, TN, TX, and VA.

<sup>2</sup> For flax, use 0.5 pint per acre when foxtails are less than 1.5" high. When using the special early rate, the foxtail species should not have started to tiller.

<sup>3</sup> Add nitrogen to the crop oil concentrate to improve grass control on indicated species.

**Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy protection. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure. Use up to 40 psi.

**Number of nozzles** - Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Orientation** - Orienting nozzles so that the spray is released backward, parallel to the airstream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

**Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types. Use only diaphragm-type nozzles that produce fan spray patterns.

**Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

#### **Swath Adjustment**

When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

#### **Wind**

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Do not apply **Poast Plus® herbicide** by aircraft when wind is blowing more 10 mph. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

#### **Temperature and Humidity**

When making applications in low relative humidity, set equipment up to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### **Temperature Inversions**

Applications should not occur during a temperature inversion, because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized

by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun set and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves literally in a connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

#### **Sensitive Areas**

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not apply **Poast Plus** by air if sensitive species are within 200 feet downwind.

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

Do not apply when conditions favor drift from target area or when windspeed 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 regional descriptions in **Tables 1**), 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 wiper applicators.

#### **Ground Application (Banding)**

**Poast Plus** may be applied by banding to control annual grasses. Banding is not recommended for perennial grasses.

Follow **Ground Application (Broadcast)** instructions for band applications. When applying **Poast Plus** by banding, determine the amount of herbicide and water volume needed using the following formula:

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast rate}}{\text{per acre}} = \frac{\text{Banding herbicide}}{\text{rate per acre}}$$

$$\frac{\text{Bandwidth in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast}}{\text{volume per acre}} = \frac{\text{Banding water}}{\text{volume per acre}}$$

## 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 1.5-2.25% solution of **Poast Plus® 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 **Poast Plus** and the amount of **Dash HC, Sundance HC** or oil concentrate in water according to **Tables 5** and **6**.

## Rescue Treatment for Controlling Selected Annual Grasses

If **Poast Plus** cannot be applied at the recommended time, larger annual grasses may be controlled with a later application by increasing the rate of **Poast Plus** (see **Table 3**). Do not exceed the maximum rate per acre, per season, for specific crops (see **Table 7**).

### III. Additives

To achieve consistent weed control, always use one of the following additives: **Dash HC, Sundance HC**, methylated/modified seed oil, or crop oil concentrate. In addition, urea ammonium nitrate or ammonium sulfate is recommended for use on alfalfa, beans, cotton, peanuts, soybeans and **Poast Protected™** field corn to enhance activity on certain grass species. See **Table 4. Additive Rates Per Acre** for more information. However, when used in many vegetable crops under the following conditions, **Poast Plus** plus adjuvants should be used with caution due to potential crop leaf injury: when the temperature exceeds 90° F and the relative humidity is 60% or greater, or anytime the temperature exceeds 100° F, regardless of the humidity. Because most nitrogen solutions are mildly corrosive

to galvanized, mild steel, and brass spray equipment, rinse the entire spray system with water soon after use.

UAN and AMS are not recommended in the Pacific Northwest and are not registered in California. Consult a BASF representative or local agricultural authority for more information on the use of additives.

## Dash HC, Sundance HC, Crop Oil Concentrate, or Methylated Seed Oils

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality.

Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For more information, see **Compatibility Test for Mix Components**. For most crops, **Dash HC** or **Sundance HC** may be substituted for crop oil concentrate or methylated seed oil; however, for some crops and tank mixes, **Dash HC, Sundance HC** and MSO are not recommended. (See section **VI. Crop-Specific Information** for more information.)

**Table 4. Additive Rates Per Acre**

Additive	Ground Application	Aerial Application
AMS	2.5 pounds	2.5 pounds
<b>Dash HC/Sundance HC</b>	1.0 pint	1.0 pint
Crop Oil Concentrate	2.0 pints	2.0 pints
Methylated Seed Oils/MSO	1.5 pints	1.5 pints
UAN Solution	4.0-8.0 pints	4.0 pints

**Table 5. Spot Treatment Dilution**

Spray Solution Volume	Amount of Product to be Added			
	Poast Plus (1.5%)	or	Poast Plus (2.25%)	Oil Concentrate (1.0%) or Dash® HC/Sundance® HC (0.5%)
1 gallon	1.9 fl. oz.		2.9 fl. oz.	1.3 fl. oz. or 0.6 fl. oz.
3 gallons	5.8 fl. oz.		8.75 fl. oz.	3.8 fl. oz. or 1.9 fl. oz.
5 gallons	9.5 fl. oz.		14.5 fl. oz.	6.4 fl. oz. or 3.2 fl. oz.
25 gallons	3 pints		4.5 pints	2.0 pints or 1.0 pint
50 gallons	6 pints		9 pints	4.0 pints or 2.0 pints
100 gallons	12 pints		18 pints	8.0 pints or 4.0 pints

2 tablespoons = 1 fluid ounce

**Table 6. Spot Treatment Application Rates**

Grass (see <b>Tables 3-4</b> for the complete list of grasses controlled)	Concentration in Spray Solution <sup>1</sup>		
	Poast	Crop Oil Concentrate/ Methylated Seed Oil	or Dash HC/ Sundance HC
<b>Annual grasses up to 6" height</b>	1.5%	1.0%	0.5%
<b>Annual grasses up to 12" height</b>	2.25%	1.0%	0.5%
<b>Perennial grasses<sup>2</sup></b>	2.25%	1.0%	1.0%

<sup>1</sup> Refer to **Table 1 (Spot Treatment Dilution)** for preparing the desired solution volume.

<sup>2</sup> Repeat application as needed.

**Table 7. Crop-Specific Restrictions and Limitations for Poast Plus® Herbicide**

<b>Crop</b>	<b>Minimum Time From Application to Harvest (PHI)</b>	<b>Maximum Rate Per Acre Per Application</b>	<b>Maximum Rate Per Acre Per Season</b>	<b>Livestock Grazing or Feeding</b>	<b>Aircraft Application</b>
Alfalfa, birdsfoot trefoil, and sainfoin <sup>1</sup>	14 days before cutting for (dry) hay	3.75 pints	9.75 pints	Yes	Yes
Alfalfa, birdsfoot trefoil, and sainfoin <sup>1</sup> (Undried)	7 days before grazing, feeding, or cutting for (undried) forage	3.75 pints	9.75 pints	Yes	Yes
Citrus <sup>1</sup>	15 days	3.75 pints	15.0 pints	No	No
Clover	7 days before grazing, feeding, or cutting for (undried) forage	3.75 pints	9.75 pints	Yes	Yes
Clover hay	20 days before grazing, feeding, or cutting for (dry) hay	3.75 pints	9.75 pints	Yes	Yes
Corn ( <b>Poast Protected™ field corn</b> only) <sup>1</sup>	60 days (grain or fodder) 45 days (forage and silage)	2.25 pints	4.5 pints	Yes	Yes
Cotton <sup>1</sup>	40 days	3.75 pints	11.25 pints	No	Yes
Peanut <sup>1</sup>	40 days	2.25 pints	3.75 pints	No	Yes
Soybean <sup>1</sup>	75 days	3.75 pints	7.5 pints	Only seed and hay	Yes

<sup>1</sup>See **VI. Crop-Specific Information** for more details and use restrictions.

n/a = not applicable.



## Nitrogen Source

- **Urea Ammonium Nitrate (UAN):** Commonly referred to as 28%, 30%, or 32% nitrogen solution), UAN may be used in addition to **Dash® HC, Sundance® HC spray adjuvant**, or crop oil concentrate to improve weed control. Do not use brass or aluminum nozzles when spraying UAN.
- **Ammonium Sulfate (AMS):** AMS per acre may be substituted for UAN. When liquid AMS is used, 3.0 quarts of 8-8-0 analysis may be substituted for 2.5 pounds of dry AMS. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned. If the AMS is added directly to the spray tank, add slowly while agitating. Adding the mix too quickly may clog outlet lines. Be sure the AMS is completely dissolved before adding any other products. BASF does not recommend applying AMS if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes.

UAN and AMS are not registered in California.

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## IV. General Tank Mixing Information

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### Tank Mix Partners/Components

The following products, listed with its common name, may be tank mixed with **Poast Plus® herbicide** according to the specific tank mixing instructions in this label and respective product labels.

- |   |  |
|---|--|
| • <b>Atrazine</b>                           | • <b>Pursuit® DG</b> /imazethapyr                      |
| • <b>Basagran®</b> /bentazon                | • <b>Pursuit® W</b> /imazethapyr                       |
| • <b>Blazer®</b> /acifluorfen               | • <b>Pursuit® WDG</b> /imazethapyr                     |
| • <b>Buctril®</b> /bromoxynil               | • <b>Raptor®</b> /imazamox                             |
| • <b>Classic®</b> /chlorimuron              | • <b>Reflex®</b> /fomesafen                            |
| • <b>Cobra®</b> /lactofen                   | • <b>Reliance® STS</b> /chlorimuron + thifensulfuron   |
| • <b>Dual®</b> /metolachlor                 | • <b>Resource®</b> /flumiclorac                        |
| • <b>Dual II®</b> /metolachlor              | • <b>Roundup Ultra®</b> /glyphosate                    |
| • <b>FirstRate®</b> /cloransulam-methyl     | • <b>Sencor® DF</b> /metribuzin                        |
| • <b>Flexstar®</b> /fomesafen               | • <b>Staple®</b> /pyrithiobac                          |
| • <b>Frontier®</b> /dimethenamid            | • <b>Stellar®</b> /flumiclorac + lactofen              |
| • <b>Galaxy®</b> /bentazon + acifluorfen    | • <b>Storm®</b> /bentazon + acifluorfen                |
| • <b>Guardman®</b> /atrazine + dimethenamid | • <b>Surpass®</b> /acetochlor                          |
| • <b>Harness®</b> /acetochlor               | • <b>Synchrony® STS™</b> /chlorimuron + thifensulfuron |
| • <b>Laddok® S-12</b> /bentazon + atrazine  | • <b>Touchdown®</b> /sulfosate                         |
| • <b>Liberty®</b> /glufosinate              | • <b>2,4-D amine</b>                                   |
| • <b>Pursuit®</b> /imazethapyr              | • <b>2,4-DB</b>  |
|   | • <b>2,4-D (LVE)</b>                                   |

See section **VI. Crop-Specific Information** for more details. Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Separate applications should be made if all target weeds are not at the labeled growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Poast Plus® herbicide** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

## Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre. Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

### Mixing Order

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) **Products in PVA bags.** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4) **Water-dispersible products** (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions). If an inductor is used, rinse it thoroughly after the component has been added.
- 5) **Water-soluble products.** If an inductor is used, rinse it thoroughly after the component has been added.
- 6) **Emulsifiable concentrates** (such as **Poast Plus** or oil concentrate when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- 7) **Water-soluble additives** (such as AMS or UAN when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- 8) **Remaining quantity of water.** Maintain constant agitation during application.

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## V. General Restrictions and Limitations - All Crops

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- **Maximum seasonal use rate:** See **Table 7** for crop-specific maximum seasonal use rates.
- **Preharvest Interval:** See **Table 7** for crop-specific preharvest intervals.
- **Restricted Entry Interval (REI): 12 hours**
- Avoid all direct or indirect contact with any desired grass crop unless otherwise recommended on the **Poast Plus® herbicide** label.
- **Stress:** Do not apply to grasses or crops under stress due to lack of moisture, hail damage, flooding, 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 insure active weed growth.
- 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 apply as a **preplant** or **pre-emergence treatment** before planting grass crops, such as corn, millet, or sorghum, unless otherwise specified on supplemental labeling.
- Do not use UAN or AMS in California.
- Do not use **selective application equipment** such as recirculating sprayers, wiper applicators, or **shielded applicators**.
- **Rainfast Period:** **Poast Plus** is rainfast **1 hour** after application.
- Do not apply through any type of **irrigation** equipment.

## VI. Crop-Specific Information

### Crops Grown For Seed

**Poast Plus® herbicide** is recommended for use on all crops on this label when they are grown for seed production. Use the **Poast Plus** rates given for each food crop listed in other sections on this 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

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

### CORN

**Only Poast Protected™ field corn hybrids are tolerant to Poast Plus 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 **Poast Plus** in **Poast Protected™ field corn** may be made until the onset of pollen shed provided the appropriate preharvest intervals are met. Do not apply **Poast Plus** after pollination occurs.

**Poast Plus** may be applied in a tank mix with one of the following herbicides:

•Atrazine®	•Harness®
•Basagran®	•Laddok® S-12
•Dual® & Dual II®	•Surpass®
•Frontier®	•2,4-D (LVE)
•Guardsman®	

### COTTON

Processed meal may be fed to animals.

**Poast Plus** may be applied in a tank mix with one of the following herbicides: (including herbicides registered for use in cotton tolerant to glyphosate and bromoxynil):

•Buctril®	•Staple®
•Roundup Ultra®	

For best grass control, apply **Poast Plus** 3 days prior to **Staple**.

### PEANUT

Processed meal may be fed to animals.

**Poast Plus** may be applied in a tank mix with one of the following herbicides:

•Basagran®	•Storm®
•Blazer®	•2,4-DB

### SOYBEAN

In California, the maximum rate per acre per application is 3.0 pints.

Only processed meal from seed or hay may be fed to animals.

**Poast Plus® herbicide** may be applied in a tank mix with one of the following herbicides (including uses in RoundUp Ready®, Liberty Link® and STS™ varieties):

•Basagran®	•Pursuit® W DG
•Blazer®	•Raptor™
•Classic®	•Reflex®
•Cobra®	•Reliance® STS
•FirstRate®	•Resource®
•Flexstar®	•Roundp Ultra®
•Frontier®	•Stellar®
•Galaxy®	•Storm®
•Liberty®	•Synchrony® STS
•Pursuit®	•Touchdown®
•Pursuit® DG	•2,4-D (LVE)*
•Pursuit® W	

\*For use as preplant burndown only.

#### Tank Mix Specific Restrictions

Tank mixes of **Poast Plus** with **Basagran® + Blazer®, Galaxy®** or **Storm® herbicides** are not for use in California.

Do not use MSO with any tank mix combination except with **Basagran, Pursuit®** or **Raptor® herbicides**.

### Forage Crops

#### ALFALFA, BIRDSFOOT TREFOIL, CLOVER, SAINFOIN

**Poast Plus** may be applied to seedling or established alfalfa and clover grown for hay, silage, green chop, direct grazing, or for seed.

**Mowing:** The best control of annual grasses can be achieved by applying **Poast Plus** before grass weeds are mowed. Once a grass is mowed it becomes tougher to control, as much of the leaf surface may be removed, putting the grass under stress. In areas without a killing frost, some annuals can over-winter after having been mowed a number of times. These grasses can form large crowns and contain many viable buds. A large crown, even if it is an annual grass, may require repeated applications of **Poast Plus** for partial or complete control.

#### Tank Mixing in Alfalfa, Birdsfoot Trefoil & Sainfoin Only

**Poast Plus** may be applied in a tank mix with one of the following herbicides:

•2,4-DB

#### Tank Mix Specific Restrictions

Do not add UAN solution or AMS to a tank mix of **Poast Plus + 2,4-DB**.

Do not use **Poast Plus + 2,4-DB** in the High and Rolling Plains of Texas, Western Oklahoma, Western Kansas, and Eastern New Mexico.

## **IRRIGATED ALFALFA, CLOVER, BIRDSFOOT TREFOIL, AND SAINFOIN:**

Irrigation practices can be very critical to the successful use of **Poast Plus** and may be necessary to start grass weeds growing again. Generally, applications 2-4 days after an irrigation are most effective because:

- grasses resume active growth,
- grasses have less chance to grow too large,
- by waiting later, the clover or alfalfa begins to canopy and interferes with spray coverage.

Irrigation shortly after application (2 days) can be effective, but more consistent grass control is obtained when the irrigation is made before the application.

### **Annual Grass Control**

Apply **Poast Plus** at the grass sizes and rates indicated in **Tables 1** and **3**. If a grass has been cut, apply **Poast Plus** after the regrowth reaches the minimum height (so there will be enough leaf area for absorption) and before it exceeds the maximum height indicated.

Apply before the clover or alfalfa canopies cover the grasses and interfere with the spray coverage. Also, applications after a clover or alfalfa cutting may need to be timed to follow an irrigation or rainfall which will allow the grasses to regrow to a treatable size. Some annual grasses are spring- and summer-germinating plants, while others are fall-germinating plants, and the time they are actively growing and most susceptible to **Poast Plus® herbicide** may vary from area to area. Also, some annuals germinate over a long time, and because control of small grasses is desired, applications after each weed flush may be needed. As a general guideline, spray spring- and summer-germinating grasses as early in the season as possible. The optimum application timing may occur very early in the spring after initial green-up. Spray fall-germinating weeds in the fall soon after they begin growing but before any killing frosts. Late fall applications may be less effective due to environmental changes, such as frosts or the onset of flowering.

### **Perennial Grass Control**

**Poast Plus** effectively controls or suppresses perennial grasses, such as Bermudagrass, johnsongrass, quackgrass, wirestem muhly, and perennial ryegrass. See **Table 2**. However, their growth characteristics are such that they are more difficult to control than annual grasses, especially in a perennial crop such as established alfalfa or clover. A program of repeated applications is usually necessary for best results.

The most economical way of controlling perennial grasses is to do so in the year of stand establishment before rhizomes or stolons become large and difficult to kill. The field should be disked before seeding to thoroughly fragment rhizomes or stolons.

In summer and fall seedings, cool season grasses (quackgrass, wirestem muhly, and perennial ryegrass) can become very competitive under cool fall conditions. Fall applications of **Poast Plus** will reduce late season grass growth and limit the ability of

grasses to accumulate nutrient reserves in roots and rhizomes.

In established stands, it is important to begin applying in the spring when conditions favor active growth and before storage tissues have increased their nutrient reserves. Additional applications should be made on any grass regrowth in later cuttings.

## **Citrus**

Pulp and waste may be fed to livestock.

## **Interseeded Cover Crops**

### **Poast Plus Activity on the Cover Crop**

Grass cover crops controlled or suppressed by this use include wheat, oats, and barley, or any grass crop for which **Poast Plus** is labeled. **Poast Plus** will selectively control grass cover crops in seedling nongrass or broadleaf field or forage, crops without injury. In addition, **Poast Plus** will control any annual grasses that have emerged since planting. The slow-dying grass can provide a protective mulch for the primary crop seedlings for up to 3 weeks after applying **Poast Plus**.

Apply **Poast Plus** to cereals that are 3-4" in height (before tillering). Do not allow cereals to exceed this height as excessive competition and lack of control may occur.

### Weeds listed in this label:

Common Name	Scientific Name
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Bermudagrass (Wiregrass)	<i>Cynodon dactylon</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
, Smooth	<i>Digitaria ischaemum</i>
Cupgrass, Southwestern	<i>Eriochloa gracillis</i>
, Woolly	<i>Eriochloa villosa</i>
Fescue, Tall	<i>Festuca arundinacea</i>
Foxtail, Giant (Pigeongrass)	<i>Setaria faberi</i>
, Green	<i>Setaria viridis</i>
, Yellow	<i>Setaria glauca</i>
Goosegrass	<i>Eleusine indica</i>
Itchgrass	<i>Rottboellia exaltata</i>
Johnsongrass	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colinum</i>
Lovegrass	<i>Eragrostis sp.</i>
Millet, Wild Proso	<i>Panicum miliaceum</i>
Muhly, Wirestem	<i>Muhlenbergia frondosa</i>
Oats, Tame	<i>Avena sativa</i>
, Wild	<i>Avena fatua</i>
Orchardgrass	<i>Dactylis glomerata</i>
Panicum, Browntop	<i>Panicum fasciculatu</i>
, Fall	<i>Panicum dichotomiflorum</i>
, Texas	<i>Panicum texanum</i>
Quackgrass	<i>Agropyron repens</i>
Red Rice	<i>Oryza sativa</i>
Ryegrass, Annual	<i>Lolium multiflorum</i>
, Perennial	<i>Lolium perenne</i>
Sandbur, Field	<i>Cenchrus incertus</i>
Shattercane/Wildcane	<i>Sorghum bicolor</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Stinkgrass	<i>Eragrostis cilianensis</i>
Volunteer Barley	<i>Hordeum vulgare</i>
Corn	<i>Zea mays</i>
Oats	<i>Avena sativa</i>
Rye	<i>Secale Cereale</i>
Wheat	<i>Triticum aestivum</i>
Witchgrass	<i>Panicum capillare</i>

## Crops

This product may be used on the following crops:

**Alfalfa**  
**Birdsfoot Trefoil**  
**Citrus**  
**Clover**  
**Corn (Poast Protected)**  
**Cotton**  
**Peanut**  
**Sainfoin**  
**Soybean**

Look inside for complete **Restrictions and Limitations** and **Application Instructions**.

## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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