WHEAT - YELLOW AND GREEN FOXTAIL (SUPPRESSION)

General Information

AFFINITY BroadSpec is for use on wheat (including durum), barley, oats, triticale and fallow in many states. Check with your state extension or Dept. of Agriculture before use, to be certain AFFINITY BroadSpec is registered in your state.

PRODUCT INFORMATION
AFFINITY BroadSpec herbicide is a soluble granule that is used for selective postemergence weed control in wheat (including durum), barley, oats, triticale and fallow. The best control is obtained when AFFINITY BroadSpec is applied to young, actively growing weeds. The use rate will depend on weed spectrum and size of weed at time of application. The degree and duration of control may depend on the following:

- weed spectrum and infestation intensity
- weed size at application
- environmental conditions at and following treatment

AFFINITY BroadSpec is noncorrosive, nonflammable, nonvolatile, and does not freeze. AFFINITY BroadSpec should be mixed, and completely dissolved in water and applied as a uniform broadcast spray.

RESTRICTIONS
Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

- Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.

AFFINITY BroadSpec should not be applied to wheat, barley, oats, and triticale that is stressed by severe weather conditions, drought (including low levels of subsoil
moisture), low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Risk of injury is greatest when crop is in the 2 to 5-leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.

Do not apply to wheat, barley, oats, and triticale underseeded with another crop.

Dry, dusty field conditions may result in reduced control in wheel track areas.

Also observe the following:

Do not harvest wheat or barley sooner than 45 days after the last application of AFFINITY BroadSpec.

When using AFFINITY BroadSpec in tank mixes or sequential applications with other products containing thifensulfuron-methyl and/or tribenuron-methyl, do not exceed the following limits.

PRECAUTIONS
Injury to or loss of adjacent sensitive crops, desirable trees or vegetation may result from failure to observe the following:

- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas.

- Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley, oats, and triticale.

Wheat, barley, oats, and triticale may differ in their response to various herbicides. DuPont recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of DuPont AFFINITY BroadSpec to a small area.
Under certain conditions, such as heavy rainfall, prolonged cold weather (daily high temperature less than 50°F), or wide fluctuations in day/night temperatures prior to or soon after AFFINITY BroadSpec application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix AFFINITY BroadSpec with 2,4-D (ester formulations perform best—see “Tank Mixtures” section of this label) and apply after the crop is in the tillering stage of growth.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY
AFFINITY BroadSpec is absorbed primarily through the foliage of plants, rapidly inhibiting the growth of susceptible weeds. One to 3 weeks after application to weeds, leaves of susceptible plants appear chlorotic, and the growing point subsequently dies.

AFFINITY BroadSpec provides the best control in vigorously growing crops that shade competitive weeds. Weed control in areas of thin crop stand or seeding skips may not be as satisfactory. However, a crop canopy that is too dense at application can intercept spray and reduce weed control.

The herbicidal action of AFFINITY BroadSpec may be affected in crops stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, cultural practices, or variations in crop variety. In warm, moist conditions, the expression of herbicide symptoms is accelerated; in cold, dry conditions, expression of herbicide symptoms is delayed. In addition, weeds hardened-off by drought stress are less susceptible to AFFINITY BroadSpec.

CROP ROTATION
Labeled crops may be planted at specified time intervals following application of labeled rates of AFFINITY BroadSpec. Use the time intervals listed below to determine the required time interval before planting. Refer to individual product labels to determine rotational crop restrictions when tank mixtures are used.

Time Interval Before Planting*
(days after treatment with AFFINITY BroadSpec)

Barley, Rice, Triticale, and Wheat (including durum): 0 days
Soybeans: 7 days†*
Cotton, Field Corn, and Grain Sorghum: 14 days*
Sugarbeets, Winter Rape, and Canola: 60 days
Any other crop: 45 days

†When AFFINITY BroadSpec is applied at 0.5 oz/a or less the time interval for soybeans is 1 day.

*Where AFFINITY BroadSpec is used on light textured soils, such as sands and loamy sands, extend time to planting by 7 additional days. Where AFFINITY BroadSpec is used on high pH soils (>7.9), extend time to planting by 7 additional days.

SPRAY ADJUVANTS
Always include a spray adjuvant with applications of AFFINITY BroadSpec. In addition to a spray adjuvant, an ammonium nitrogen fertilizer may be used. Consult your Ag dealer or applicator, local DuPont fact sheets, technical bulletins, and service policies prior to using an adjuvant system. If another herbicide is tank mixed with AFFINITY BroadSpec, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40CFR 1001).

Nonionic Surfactant (NIS)
- Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal of spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. See the Tank Mixtures section of this label for additional information.

Petroleum Crop Oil Concentrate (COC) or Modified Seed Oil (MSO)
- Apply at 1% volume/volume (1 gal per 100 gal spray solution) or 2% volume/volume under arid conditions.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Special Adjuvant Types
- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if
they provide the same functionality and have been evaluated and approved by DuPont product management. Consult separate DuPont technical bulletins for detailed information before using adjuvant types not specified on this label.

Ammonium Nitrogen Fertilizer
- Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

GROUND APPLICATION
For optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles. For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA). For flood nozzles on 30” spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40” nozzle spacings, use at least 13 GPA; for 60” spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings. Raindrop “RA” nozzles are not recommended for AFFINITY BroadSpec applications, as weed control performance may be reduced.

Use screens that are 50-mesh or larger.

AERIAL APPLICATION
Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage at 2 to 5 GPA. Use at least 3 GPA in Idaho, Oregon, or Utah. This product is limited to ground application only in the State of New York.

See the Spray Drift Management section of this label.

CHEMIGATION
Do not apply this product through any irrigation system.

PRODUCT MEASUREMENT
AFFINITY BroadSpec is measured using the AFFINITY BroadSpec volumetric measuring cylinder. The degree of accuracy of this cylinder varies by + 7.5%. For more precise measurement, use scales calibrated in ounces.

GRAZING
Allow at least 7 days between application and grazing of treated forage. In addition, allow at least 7 days between application and feeding of forage from treated areas
to livestock. Allow at least 30 days between application and feeding of hay from treated areas to livestock. Harvested straw may be used for bedding and/or feed. Allow at least 45 days between application and harvesting of grain.

AT THE END OF THE DAY
It is recommended that during periods when multiple loads of AFFINITY BroadSpec herbicide are applied, at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

AFTER SPRAYING AFFINITY BROADSPEC AND BEFORE SPRAYING CROPS OTHER THAN WHEAT AND BARLEY

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of AFFINITY BroadSpec as follows:

1. Empty the tank and drain the sump completely.

2. Spray the tank walls with clean water using a minimum volume of 10% of the tank volume. Circulate the water through the lines, including all by-pass lines, for at least two minutes. Flush the boom well and empty the sprayer. Completely drain the sump.

3. Repeat step 2.

4. Remove the nozzles and screens and clean separately in a bucket containing water.

The rinsate solution may be applied to the crop(s) specified on this label. Do not exceed the maximum-labeled use rate. If cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

Notes:

1. Always start with a clean spray tank.
2. Steam-cleaning aerial spray tanks is recommended to facilitate the removal of any caked deposits.

3. When AFFINITY BroadSpec is tank mixed with other pesticides, all cleanout procedures for each product should be examined and the most rigorous procedure should be followed.

4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual labels.

RESISTANCE
DuPont AFFINITY BroadSpec, which contains the active ingredients thifensulfuron and tribenuron is a Group 2 herbicide based on the mode of action classification system of the Weed Science Society of America. When herbicides with mode of action classifications that affect the same biological sites of action are used repeatedly over several years to control the same weed species in the same treatment area, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that area. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different biological site of action. To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that affect a different site of action. Weed escapes that are allowed to go to seed, and movement of plant material between treatment areas on equipment will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative to determine appropriate actions for treating specific resistant weed biotypes in your area.

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment,
propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

INTEGRATED PEST MANAGEMENT
DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

Limitations, Restrictions, and Exceptions

SPECIFIC WEED PROBLEMS

Yellow and Green Foxtail: AFFINITY BroadSpec herbicide at 0.6 - 1.0 oz/a may be tank mixed with “GoldSky”, “Everest”, or “Rimfire Max” for yellow and green foxtail suppression in wheat.

Method
Broadcast/Foliar Air
Broadcast/Foliar Ground

Rates
field_rates 0

Restricted Entry Interval
12 hours

Timings
Postemergence (Weed)