

Specimen Label



Herbicide

®Trademark of Dow AgroSciences LLC

For use only on field corn, production seed corn, silage corn, sweet corn and popcorn

Active Ingredients:

acetochlor: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide	33.68%
Other Ingredients:.....	66.32%
Total	100.00%

Contains 3.2 pounds of active ingredient per gallon.

EPA Reg. No. 62719-369

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful If Swallowed Or Absorbed Through The Skin

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

First Aid

Immediately start the procedures below. If further treatment is required, contact a Poison Control Center, a physician or the nearest hospital.

If on skin or clothing: 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 the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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 do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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. You may also contact 1-800-992-5994 for emergency medical treatment information.

Environmental Hazards

This product is toxic to fish. 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.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

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.

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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 made of any waterproof material
- Shoes plus socks

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallon:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Storage and Disposal (Cont.)

Nonrefillable containers larger than 5 gallons:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

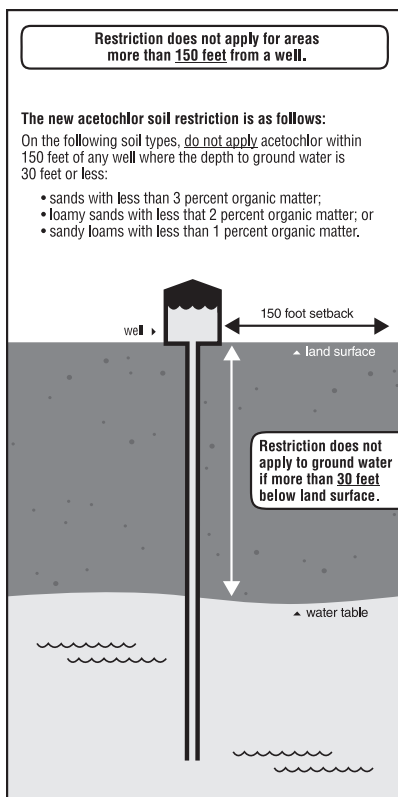
Information

TopNotch® herbicide is intended for preplant, preemergence, or early postemergence use in corn. Use of this product in corn is limited to field corn, production seed corn, silage corn, sweet corn and popcorn. Do not apply this product to any crop other than corn.

TopNotch is a micro-encapsulated combination of the herbicide acetochlor and the antidote or safener dichlormid. While the acetochlor provides weed control, the dichlormid safens corn against herbicide injury. TopNotch may be applied to the surface or incorporated into the top 1-2 inch layer of soil. It is recommended for control alone, or in tank mix combinations as indicated, for the weeds listed in the "Target Weeds" section of these use directions. TopNotch controls weeds by interfering with normal germination and seedling development. TopNotch will not control established or germinated weeds present at application.

Use Precautions and Restrictions

- On the following soil types, do not apply this product within 150 feet of any well where the depth to groundwater is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1 percent organic matter. See the figure for additional clarification.



- Do not apply this product using aerial application equipment.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not use flood irrigation to apply or incorporate this product.
- This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.
- Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.
- Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.
- Do not apply under conditions that favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:
 - Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface must first be settled by rainfall or irrigation.
 - Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.

- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least ½ inch of rainfall has occurred between application and the first irrigation.
- Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:
 - Use low pressure application equipment capable of producing a large droplet spray.
 - Do not use nozzles that produce a fine droplet spray.
 - Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.
 - Keep ground-driven spray boom as low as possible above the target surface.
 - Make application when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.
- Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.

Rotational Crop Restrictions:

When tank mixing with other herbicides, follow the most restrictive crop rotation guidelines on the label of each product used. The following rotational crops may be planted as indicated:

Rotational Crop	Timing or Interval
corn (1)	Anytime - 0 months after application
alfalfa, barley, buckwheat, clover, dry beans (2), guar, kudzu, lentil, lespedeza, lupin (4), millet, pearl or proso, oats, pea (5), potatoes, rye, sorghum, soybeans, sugar beets, sunflower, trefoil, tobacco, triticale, vetch, wild rice	Spring following application (3)
wheat	4 months after application

Numbers within parentheses (-) in the table refer to Specific Rotational Crop Requirements below.

- (1) If crop treated with TopNotch is lost, corn may be replanted immediately. Do not make a second application of TopNotch.
- (2) Dry beans includes: adzuki, kidney, lima, navy, pinto
- (3) Approved rotation crops list does not include any species of succulent beans and peas
- (4) Lupin includes: grain, white, white sweet
- (5) Pea includes: blackeyed, chick, cow, Crowder, field, pigeon, Southern

Application Directions - Corn

Carriers and Spray Volume

Either water or liquid fertilizers such as solutions, slurries or suspensions may be used as liquid carriers. If fluid fertilizers are used, a physical compatibility with these must be done **before combining** in the spray tank. See Appendix I for details of the compatibility testing procedure. Even if TopNotch is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Apply in a minimum broadcast spray volume of 10 gallons per acre using boom equipment for ground applications. Use low-pressure nozzles designed for application of herbicides. Use sufficient operating pressure to produce the desired spray pattern for the nozzle (15 to 40 psi) and follow manufacturer's recommendations for nozzle spacing and operating height to ensure uniform spray distribution at the soil surface. Use 50-mesh or coarser screens, if needed.

Adding to Spray Tank

The spray tank must be clean, thoroughly rinsed and decontaminated before adding either TopNotch alone or in tank mix combinations. If water is used as the carrier, use clean water. All return lines to the spray tank must discharge below the liquid level.

Used Alone: If TopNotch is used alone, add the recommended amount to the spray tank after the tank is half filled, then add the rest of the water or fluid fertilizer. Provide sufficient agitation to ensure thorough mixing and to maintain a uniform spray mixture during application.

Tank Mixed: If a tank mixture is used, it is recommended that a small-scale test of compatibility be done before actual tank mixing. See Appendix I for details on the procedure for such a test.

Water Carrier

Allow time for complete dispersion/mixing before adding another product to the spray mixture. Add products to the tank mixture in the following order:

- To start, add one-half of the required amount of water to the spray tank. Begin agitation.
- Products in water soluble packaging. Important: Allow time for complete dispersion.
- Wettable powders or dry flowables (slurry if recommended by tank mix product label)
- Liquid flowables
- Emulsifiable concentrates
- TopNotch or other suspension concentrates
- Urea ammonium nitrate (UAN) or ammonium sulphate (AMS), if required.
- Compatibility agent if needed
- Soluble liquids such as glyphosate, paraquat, 2,4-D amine
- Crop oil concentrate (COC) or nonionic surfactant (NIS), if required
- Finish filling spray tank to required spray volume

Liquid Fertilizer Carrier

Allow time for complete dispersion/mixing before adding another product to the spray mixture. Add products to the tank mixture in the following order:

- To start, add one-half of the required amount of liquid fertilizer to the spray tank. Begin agitation.
- Compatibility agent if needed
- Products in water soluble packaging. Important: Products in water soluble packaging must be premixed with water (slurried) prior to addition to the spray tank.
- Wettable powders or dry flowables (slurry if recommended by tank mix product label)
- Liquid flowables
- Emulsifiable concentrates
- TopNotch or other suspension concentrates
- Ammonium sulphate (AMS), if tank mixing with glyphosate.
- Soluble liquids such as glyphosate, paraquat, 2,4-D amine
- Crop oil concentrate (COC) or nonionic surfactant (NIS), if required
- Finish filling spray tank to required spray volume.

Note: For all tank mixtures, maintain agitation during mixing and throughout application to ensure spray mixture remains uniformly suspended.

Application Timing and Methods

For the optimum period of effective weed control during the time most critical to corn production, preplant applications of TopNotch should occur as close as possible to planting. Preemergence applications should occur as close as possible to planting, but prior to weed emergence. Postemergence applications should occur prior to weed emergence or in tank mix combination with a product that controls emerged weeds.

Note: Do not apply TopNotch to sweet corn as an early postemergence application.

Early Preplant: On medium and fine textured soils (see Table 1), TopNotch and certain tank mixtures may be applied up to 40 days before planting.

Preplant Incorporation: TopNotch and certain tank mixes may be mechanically incorporated in the top 2 inches of the soil with field cultivators, discs, or spring tooth harrows at any time within 10 days prior to planting. Do not apply and incorporate more than 10 days prior to planting. Improper incorporation, excessive crop residues, or poor soil tillage may result in erratic, streaked or otherwise unsatisfactory weed control. Do not mix TopNotch deeper than 2" into the soil and avoid moving or shaping soil after incorporation.

Preemergence Surface: TopNotch and certain tank mixes may be applied to the soil surface as a broadcast or banded application. Precipitation or sprinkler irrigation of at least 0.25 inch is required to bring TopNotch into contact with germinating weed seeds. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar equipment, to incorporate the herbicide. Incorporation equipment should be run at a shallow depth to avoid disturbance of germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped after incorporation.

Postplant-Preemergence: TopNotch may be applied immediately after planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar equipment, to shallowly incorporate the herbicide. Incorporation equipment should be run at a shallow depth to prevent disturbance of the germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

Banding Preemergence: TopNotch may be applied in a band treatment after corn planting but prior to corn emergence.

Early Postemergence: TopNotch may be applied early postemergence to corn up to 11" tall. Applications must be made prior to weed seedling emergence or in a tank mix combination that controls the emerged weeds. Read and follow restrictions and directions on tank mix product labels.

Sprinkler Irrigation: Do not apply TopNotch by sprinkler irrigation.

Use a sprinkler system only to incorporate TopNotch after application. After TopNotch has been applied, a sprinkler irrigation system set to deliver 0.25 to 0.75 inch of water per acre may be used to incorporate the product. Using more than 0.75 inch of water could result in reduced performance. On sandy soil low in organic matter, use no more than 0.5 inch of water. Do not use flood irrigation to apply or incorporate TopNotch.

Fall Application - For use in IA; IL (North of Route 136); NE (North of Route 20); MN; ND; SD; WI: Following soybean harvest, apply to soybean stubble after October 15, when the sustained soil temperature at 4-inch depth is less than 50°F, but before ground freezes. Use on medium and fine textured soils with greater than 2.5% organic matter. Only corn may be planted the following spring.

Ground may be tilled before or after application. Do not exceed 2-inch incorporation depth if tilled after application.

If a spring application is made, the total rate of the fall plus spring application must not exceed the maximum labeled rate for corn grown on that soil.

Cultivation

Cultivation should be delayed as long as possible. If weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If TopNotch was incorporated, cultivate less than one-half the depth of incorporation.

If cultivation is necessary due to soil crusting, compaction, or escaped weeds, adjust equipment to run shallow and minimize soil movement. This will decrease the possibility of diluting or moving the herbicide from the weed control zone.

Soil Texture Groupings

The use rate of TopNotch is determined by a combination of two factors, soil texture and the interval of time between application and planting. Different soil textures are grouped into three textural classes (coarse, medium and fine) as outlined in Table 1. Soil texture may be determined from soil survey information and/or by laboratory analysis, but must be known prior to application in order to select the proper application rate from Table 2.

Table 1: Soil Texture Groupings for TopNotch Use Rate Selection.

Coarse	Medium	Fine
Sand Loamy Sand Sandy Loam	Loam Silt Silt Loam Sandy Clay Loam	Silty Clay Loam Silty Clay Sandy Clay Sandy Clay Loam Clay Loam Clay

Use Rates for TopNotch

Application can take place from up to 40 days before planting. Optimal weed control will be obtained when applications are made as close to planting as possible but before the weeds emerge. In reduced or no-till systems, it is recommended that a burndown herbicide such as paraquat (Gramoxone) or glyphosate (Glyphomax, Roundup or Touchdown) or 2,4-D be tank mixed with TopNotch if emerged weeds are present at application.

Table 2: Use Rates for TopNotch

Soil Texture	Time from Application to Planting			
	Less than 10 Days	10 to 30 Days	30 to 40 Days	After Planting and/or Emergence
Coarse	2 qt/acre	2 - 2.5 qt/acre [†]	2.5 qt/acre [†]	2 qt/acre
Medium	2 - 2.5 qt/acre	2.5 qt/acre	2.5 - 3 qt/acre	2 - 2.5 qt/acre
Fine	2.5 - 3 qt/acre	2.5 - 3 qt/acre	3 - 3.75 qt/acre	2.5 - 3 qt/acre

[†] On coarse textured soils with less than 3% Organic Matter, the maximum rate is 2.25 qt/acre.

- Use the lower rate when tank mixed with a residual herbicide like atrazine.
- Use the higher rate when applied alone.

Rate Ranges: If the weed infestation is light, use a rate at the lower end of the rate range for the soil texture and organic matter content. If the weed infestation is heavier, use the higher rates in the rate range for the soil texture and organic matter.

Band Applications

This product may be applied as a band treatment. Use the following formulas below to determine the appropriate rate and volume per treated acre.

Band width in inches
----- X Broadcast rate = Band rate per
Row width in inches per acre treated acre

Band width in inches
----- X Broadcast volume = Band volume
Row width in inches per acre per treated acre

Weeds Controlled:

TopNotch, applied as directed in this label, will provide control or partially control (reduce competition) of the weeds listed in Table 3. Partially controlled weeds will be severely stunted, or experience reduced height, vigor, or population compared to untreated areas. Depending on the infestation level or density, a follow-up treatment may be needed to provide complete control.

Additional weeds may be controlled with certain tank mixes. See the "Tank Mix Combinations" section for recommended tank mix combinations and the additional weeds controlled.

Table 3: Weeds Controlled or Partially Controlled by TopNotch at Recommended Use Rates.

Grasses and Sedges	C = Control PC = Partial Control	Broadleaves	C = Control PC = Partial Control
barnyardgrass	C	beggarweed, Florida	C
crabgrass spp.	C	carpetweed	C
crowfootgrass	C	galinsoga	C
cupgrass, prairie	C	kochia	PC
cupgrass, southwestern	C	lambsquarters, common (2)	C
cupgrass, woolly	PC	nightshade, black	C
foxtail, bristly	C	nightshade, hairy	C
foxtail, giant	C	pigweed	C
foxtail, green	C	purslane, common	C
foxtail, robust (purple, white)	C	pusley, Florida	C
foxtail, yellow	C	ragweed, common	C
goosegrass	C	sida, prickly	C
johnsongrass, seedling	PC	smartweed spp.	C
millet, foxtail	C	waterhemp, tall	C
millet, wild proso	PC	waterhemp, common	C
nutsedge, yellow (1)	C		
panicum, browntop	C		
panicum, fall	C		
panicum, Texas (3)	C		
rice, red	C		
sandbur, field	PC		
sandbur, southern	C		
shattercane	PC		
signalgrass, broadleaf (3)	C		
sprangletop, red	C		
witchgrass	C		

- (1) Yellow nutsedge requires a minimum of 2.5 quarts. Incorporation is required.
- (2) Light to moderate infestations will be controlled. Heavy infestations may require a tank mixture or sequential herbicide.
- (3) Best control is achieved when TopNotch is applied within 5 days of planting and rainfall occurs shortly after application or mechanical incorporation is used to activate the herbicide. If it does not rain within 7 days, shallow cultivation will enhance activity. Excessive rainfall after application may reduce control. Under adverse weather conditions and/or heavy infestations, a cultivation or follow up herbicide may be needed.

Tank Mix Combinations

Additional weeds may be controlled with tank mixes. Tank mix combinations may be used in either conventional, reduced, or no-till systems and may be applied by the same methods and at the same application timing as TopNotch unless otherwise specified in the tank mix product label.

TopNotch may be tank mixed with any other herbicide labeled for use on corn provided the compatibility of the tank mix is verified by a jar test and tank mixing with TopNotch is not prohibited by the label of the tank mix product. The compatibility of a tank mixture can be determined by mixing the ingredients of the herbicide mixture in their relative proportions in a glass jar as described for fluid fertilizer mixtures in Appendix I by

substituting water for fluid fertilizer. Refer to the label of the tank mix product for applicable use directions, precautions and limitations, including additional weeds controlled. Do not exceed application rates on the respective product labels. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.

When tank mixing TopNotch with atrazine, do not exceed the maximum allowable rate of atrazine in your county or state. In some atrazine management areas, atrazine is more restricted. Consult your county extension office or state university for further information.

Use of Spray Adjuvants

TopNotch is a preemergence herbicide for which adjuvants have little or no influence on performance. However, several herbicides used in tank mixtures with TopNotch require use of adjuvants to aid in the burndown of emerged weeds. Use only those adjuvants recommended on the label of the tank mix product and approved for use in growing crops.

Preemergence Tank Mix Combinations

Tank mix combinations may be used in all tillage situations and applied by the same methods and at the same timings as TopNotch unless otherwise specified in the tank mix product label.

Preemergence Tank Mixes (TopNotch Plus):

Tank Mix Herbicide †	Comments
Atrazine 4L	<ul style="list-style-type: none"> This tank mix may be applied preplant surface, preplant incorporated, preemergence. If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide Provides control or partial control of cocklebur, giant ragweed, ground cherry (spp), jimsonweed, kochia, morningglory (spp), mustards, sicklepod and velvetleaf Use when there is heavy broadleaf weed pressure
Balance Pro	<ul style="list-style-type: none"> This tank mix is not labeled in all states. Refer to the label for Balance Pro for applicable directions for use, geographic and other restrictions For use in field corn only Refer to the use rates section for minimum use rates for TopNotch.

Preemergence Tank Mixes (TopNotch Plus): (Cont.)

Tank Mix Herbicide †	Comments
Hornet WDG	<ul style="list-style-type: none"> Tank mix with 4.0 – 5.0 oz/acre Hornet® WDG herbicide to provide consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species. Also provides improved control of cocklebur, common ragweed, giant ragweed, common sunflower and jimsonweed.
Durango DMA, Roundup UltraMax, Touchdown	<ul style="list-style-type: none"> Apply preplant for burndown of existing weeds Weeds less than 6 inches tall are easiest to control with burndown herbicides applied in combination with TopNotch. Always add ammonium sulphate (AMS) to tank mixes prior to addition of glyphosate (8.5 to 17 lb per 100 gal of spray).
Gramoxone Max	<ul style="list-style-type: none"> Control annuals, suppress perennials
Princep 4L	<ul style="list-style-type: none"> Provides improved control of crabgrass and fall panicum.
Python WDG	<ul style="list-style-type: none"> Tank mix with 0.8 – 1.33 oz/acre Python® WDG herbicide to provide consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species.
2,4-D	<ul style="list-style-type: none"> Apply preplant for control of existing weeds

Postemergence Tank Mix Combinations

TopNotch may be applied before, with, or following the use of one or more of the following herbicides: Accent, Aim, atrazine, Banvel, Basis, Basis Gold, Beacon, Bladex, Buctril, Buctril/atrazine, Clarity, Distinct, Exceed, Hornet WDG, Liberty, Lightning, Marksman, Peak, Permit, Princep, Prowl, Pendimax®, Pursuit, Shotgun, Spirit and Steadfast. When tank mixing, refer to the label of the tank mix product for applicable directions for use, precautions and restrictions, and a list of weeds controlled. TopNotch may be tank mixed with any product approved for use on corn unless it is prohibited by the tank mix product label.

When tank mixing, refer to the label of the tank mix product and follow additional use directions in the following table: **TopNotch can be applied to corn up to 11" tall.**

Postemergence Tank Mixes (TopNotch Plus):

Tank Mix Herbicide	Rate	Comments
Hornet WDG	2-5 oz/acre	<ul style="list-style-type: none"> Always add NIS at 0.25% v/v or COC at 1% v/v.
Aim EW	0.5 oz/acre	<ul style="list-style-type: none"> Always add a NIS at 0.25% v/v.
Banvel Clarity Marksman	0.5 - 1.0 pt/acre 0.5 - 1.0 pt/acre 2 - 3.5 pt/acre	<ul style="list-style-type: none"> Apply early postemergence up to 8" tall corn on all soils. If grasses are more than 2- leaf stage, combine with another herbicide to control these weeds.
Buctril Buctril/atrazine Shotgun	1.5 pt/acre 2.0 pt/acre 2 - 3 pt/acre	<ul style="list-style-type: none"> Refer to tank mix product labels for applicable use directions, precautions and restrictions.
Atrazine	0.5 - 2.0 lb ai/acre	<ul style="list-style-type: none"> May be applied preplant surface, preplant incorporated, preemergence or early postemergence (up to 8" tall corn). If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide. Note: The maximum atrazine application rate per year for corn is 2.0 lb active if applied only postemergence or 2.5 lb active if pre- and postemergence applications are made.
Distinct	4.0 - 6.0 oz/acre	<ul style="list-style-type: none"> Always add a NIS at 0.25% v/v and 1.25% UAN. May be applied up to corn up to 10 inches tall.
Exceed	1.0 oz/acre	<ul style="list-style-type: none"> Always add crop oil concentrate at 1% v/v. See label for Exceed for geographic restrictions.

Postemergence Tank Mixes (TopNotch Plus): (Cont.)

Tank Mix Herbicide	Rate	Comments																
Liberty	16 - 28 oz/acre	<ul style="list-style-type: none"> • For use on liberty tolerant corn only. Apply to grass and broadleaf weeds up to 6" tall. Do not add additional surfactant. 																
Lightning	1.28 oz/acre	<ul style="list-style-type: none"> • For use on Clearfield corn only. Use a NIS at 25%v/v and a liquid nitrogen fertilizer at 1 - 2 qt per acre or ammonium sulfate at 2.5 lb per acre. 																
Pendimax / Prowl	1.8 - 3.6 pt/acre	<ul style="list-style-type: none"> • Apply preemergence or apply early postemergence to corn up to 3" tall, but before weeds are more than 1" tall. 																
Princep	1.0 - 3.0 lb ai/acre	<ul style="list-style-type: none"> • May be applied preplant surface, preplant incorporated, preemergence to corn. 																
Pursuit 2.5L Pursuit 70DG	4.0 fl oz/acre 1.4 fl oz/acre	<ul style="list-style-type: none"> • Use only on Clearfield varieties. • Apply preplant incorporated, preplant surface, preemergence or early postemergence to weeds up to 3 inches tall. 																
Resource	4.0 - 6.0 oz/acre	<ul style="list-style-type: none"> • Apply to weeds less than 5" tall. Add a crop oil concentrate at 1 - 2 pt/acre and either 28% nitrogen at 2% v/v or ammonium sulfate at 2.5 lb/acre. May cause some burn or spotting to corn leaves. 																
Spirit	1.0 oz/acre	<ul style="list-style-type: none"> • Always add crop oil concentrate at 1% v/v. • See label for Spirit for geographic restrictions. 																
2,4-D Ester	See Label	<ul style="list-style-type: none"> • May be applied preplant surface or preemergence to control emerged broadleaf weeds in corn. 																
Accent 75WDG Beacon 75WDG Basis Steadfast	1/4 - 2/3 oz/acre 0.76 oz/acre 1/4 - 2/3 oz/acre 0.75 oz/acre	<ul style="list-style-type: none"> • Minimum TopNotch use rates (qt/acre): <table border="1"> <tr> <td>Soil</td> <td><3%OM</td> <td>3-7%OM</td> <td>>7%OM</td> </tr> <tr> <td>Coarse</td> <td>1.5</td> <td>1.5</td> <td>2.0</td> </tr> <tr> <td>Medium</td> <td>1.5</td> <td>1.5-2.0</td> <td>2.0</td> </tr> <tr> <td>Fine</td> <td>1.5</td> <td>1.5-2.0</td> <td>2.0</td> </tr> </table> • Always add NIS at 0.25% (v/v). In addition, if applied in dry conditions, add 4% (v/v) clear liquid fertilizer. • Banvel, Clarity, Marksman, Buctril, Buctril/ atrazine may be added to this mixture to provide burndown and residual control of broadleaf weeds. 	Soil	<3%OM	3-7%OM	>7%OM	Coarse	1.5	1.5	2.0	Medium	1.5	1.5-2.0	2.0	Fine	1.5	1.5-2.0	2.0
Soil	<3%OM	3-7%OM	>7%OM															
Coarse	1.5	1.5	2.0															
Medium	1.5	1.5-2.0	2.0															
Fine	1.5	1.5-2.0	2.0															
Basis Gold	14.0 oz/acre	<ul style="list-style-type: none"> • Minimum TopNotch use rates (qt/acre): <table border="1"> <tr> <td>Soil</td> <td><3%OM</td> <td>3-7%OM</td> <td>>7%OM</td> </tr> <tr> <td>Coarse</td> <td>1.5</td> <td>1.5</td> <td>2.0</td> </tr> <tr> <td>Medium</td> <td>1.5</td> <td>1.5-2.0</td> <td>2.0</td> </tr> <tr> <td>Fine</td> <td>1.5</td> <td>1.5-2.0</td> <td>2.0</td> </tr> </table> • Always add COC at 1.0% v/v or, under dry conditions, add COC at 2.0% v/v plus 2 qt/acre of 28% liquid nitrogen or 2 lb/acre of ammonium sulfate. • Banvel, Clarity, Marksman, Buctril, or Tough herbicide may be added to this mixture to provide burndown and residual control of broadleaf weeds. 	Soil	<3%OM	3-7%OM	>7%OM	Coarse	1.5	1.5	2.0	Medium	1.5	1.5-2.0	2.0	Fine	1.5	1.5-2.0	2.0
Soil	<3%OM	3-7%OM	>7%OM															
Coarse	1.5	1.5	2.0															
Medium	1.5	1.5-2.0	2.0															
Fine	1.5	1.5-2.0	2.0															

TopNotch Physical Data

- Specific gravity: 1.16 @ 20°C
- Flashpoint: > 200°F

Appendix I

Procedure for Testing the Compatibility of TopNotch and Tank Mixes with Fluid Fertilizers

Since fluid fertilizers vary, the following procedure is suggested for determining whether TopNotch may be combined with a specific fluid fertilizer for spray tank application.

Materials Needed:

- TopNotch and any tank mix products.
- Fluid fertilizer to be used.
- Adjuvant for fertilizer tank mix: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of TopNotch with fluid fertilizers. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
- Two 1-quart, wide mouth glass jars with lid or stopper.
- Measuring spoons (a 25 ml pipette or graduated cylinder provides more accurate measurement).
- Measuring cup, 8 ounces (257 ml).

Procedure:

1. Pour a pint (about 473 ml) of the fluid fertilizer into each of the quart jars.
2. Add ½ teaspoon (2 ml) adjuvant to one of the jars, label it as "with", and mix. The rate of ½ teaspoon per pint is equal to 3 pints of adjuvant per 100 gallons of fluid fertilizer.
3. Add TopNotch and any tank mix combination to the jars. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the EC's last. The rate of wettable powders and dry flowables is 1½ teaspoon per pound of product per acre to be applied. EC's should be added at the rate of ½ teaspoon for each pint per acre to be applied. Premixing the wettable powders in 1 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture.
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures:
 - (a) Immediately after completing the jar inversions
 - (b) After allowing the jars to stand quietly for 30 minutes
 - (c) And then again after turning the jars upside down 10 times after the 30 minute inspection

Evaluation:

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with 10 jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer. Foaming may be minimized by using moderate agitation. If non-dispersible oil, sludge, or clumps of solids form in the mixtures, the combination should not be used.

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LOES Number: 010-00106

EPA accepted 11/23/09

Revisions:

1. Revised voluntary soil restriction under Use Precautions and Restrictions
2. Updated Storage and Disposal