10182-391

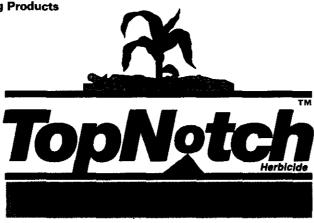
12 \$15/1997

RESTRICTED USE PESTICIDE

Due to Oncogenicity

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.





For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

**ACTIVE INGREDIENT:** 

Acetochlor

2-chloro-2'-methyl-6'-ethyl-

TOTAL 100.00% Contains 3.2 pounds active ingredient per gallon

EPA Reg. No. 10182-391

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE INSIDE FOR STATEMENT OF PRACTICAL TREATMENT AND PRECAUTIONARY STATEMENTS

04004772 109703



DEC 15 1997

Under the Federal Insecticide. Fungicide, and Rodenticide Act. as amended, for the posticide registered under

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

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## STATEMENT OF PRACTICAL TREATMENT

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: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED: Remove victim to fresh air. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

## 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

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

- Waterproof gloves.
- 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, 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**

- 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**

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.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flames

## **GENERAL INFORMATION**

For use only on field corn, production seed corn, silage corn and popcorn. Corn in this label refers to all four types: field corn, production seed corn, silage corn and popcorn.

TOPNOTCH Herbicide 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 tankmix 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 RESTRICTIONS**

- Do not apply to the following soils if groundwater depth is 30 feet or less: sand with less than 3% organic matter; loamy sand with less than 2% organic matter; or sandy loam with less than 1% organic matter.
- 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.
- 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.

- . Do not apply this product through any type of irrigation system.
- . Do not use flood irrigation to apply or incorporate this product.
- Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.
- Do not apply under conditions which 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 this product using aerial application equipment.
- 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.

## **GENERAL USE PRECAUTIONS**

Read all label directions before using.

- Do not use TOPNOTCH on any crop other than field corn, production seed corn, silage corn, and popcorn.
- . Do not allow TOPNOTCH to contaminate feed or food.
- . TOPNOTCH should not be stored near seeds or fertilizers.
- All containers of TOPNOTCH should be kept tightly closed when not in use.
- . Do not overdose or use rates higher than specified on this label.
- ROTATIONAL CROPS: (1) If crop treated with TOPNOTCH is lost, field corn, production seed corn, silage corn or popcorn may be replanted immediately. Do not make a second application of TOPNOTCH. (2) Do not rotate to crops other

than corn, soybeans, sorghum, wheat or tobacco. Wheat may be planted 4 months after application. Corn, soybeans, sorghum or tobacco may be planted the spring following application.

## **DIRECTIONS FOR USE**

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

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:

- Waterproof gloves. Shoes plus socks.



## STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep container tightly closed when not in use. Do not store near seeds, fertilizers, or food stuffs. Can be stored at temperatures as low as minus 30°F.

**PESTICIDE DISPOSAL:** Rinse spray equipment. Pesticide wastes are acutely hazardous. 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.

CONTAINER DISPOSAL: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## FOR BULK AND MINI-BULK CONTAINERS

Container Disposal: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container Precautions: Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

FOR MINI-BULK CONTAINERS: REFILL ONLY WITH TOPNOTCH herbicide. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than TOPNOTCH will result in contamination and may weaken container.

After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. Circulation before dispensing is required.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!



## **GENERAL APPLICATION DIRECTIONS**

CARRIERS

Liquids: 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.

Dry Bulk Fertilizer: TOPNOTCH may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread. See Appendix II for details including which fertilizers are compatible.

### ADDING TO SPRAY TANK

The spray tank must be clean, thoroughly rinsed and decontaminated before adding either TOPNOTCH alone or in tankmix combinations. If water is used as the carrier, use clean water.

**Used Alone:** If TOPNOTCH is used alone, add the recommended amount to the spray tank after the tank is half filled with water. The addition of the remaining water or fluid fertilizer carrier can aid in the thorough agitation and mixing of the spray solution.

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.

Once compatibility is confirmed for the tankmix, fill the tank half full of water. Start and continue agitation throughout mixing. All return lines to the spray tank must discharge below the liquid level. Add the tankmix components in the following order:

- If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Agitate during the procedure.
- If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when the flowable is diluted with water before adding to the tank.
- · Add TOPNOTCH next.
- Then add other tankmix components such as AMBUSH®, 2,4-D, NIS.
- · Add GRAMOXONE® EXTRA, TOUCHDOWN®, 2,4-D, and/or WARRIOR® and a nonionic surfactant last, if needed.
- · Complete filling the sprayer tank and continue agitation.
- · Batches should be mixed and applied the same day.

### VOLUME

Liquid: Use a minimum of 10 gallons per acre in broadcast boom equipment for ground applications.

Dry Bulk Fertilizer: Use at least 200 pounds of dry bulk fertilizer per acre. See Appendix II for more details.

### **PRESSURE**

If liquid carriers are used, the pressure at the nozzle should be 15 to 40 psi to ensure good distribution of the spray pattern. Consult spray tip manufacturer's recommendation on appropriate pressure for the nozzles you are using.



### APPLICATION TIMING AND METHODS

In reduced or no-till systems, a burndown herbicide such as GRAMOXONE EXTRA, TOUCHDOWN, or 2,4-D may be tank mixed with TOPNOTCH if emerged weeds are present at the time of application.

Early Preplant: TOPNOTCH and certain tank mixtures may be applied up to 40 days before planting.

Preplant Incorporation: TOPNOTCH and certain tankmixes may be mechanically incorporated in the top 2 inches of the soil by mechanical means such as field cultivators, finishing discs, rotary hoes, spring tooth harrows, or power driven cultivation equipment. Do not apply and incorporate more than 10 days before planting. Improper incorporation, excessive crop residues, or poor soil tilth may result in erratic, streaked or otherwise unsatisfactory weed control. Avoid moving or shaping soil after incorporation. If two passes are used to incorporate TOPNOTCH, the second pass must be shallower and at an angle to the first pass.

Preemergence Surface: TOPNOTCH and certain tankmixes may be applied to the soil surface as a broadcast or banded (10-14" wide) application. Existing soil moisture, irrigation or rain is necessary to bring TOPNOTCH into contact with germinating 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 device, to incorporate the herbicide. Care should be taken not to remove TOPNOTCH from the weed control zone such as the band. The device used should be run at a shallow depth to prevent disturbing the corn seed.

Postplant-Preemergence: TOPNOTCH and certain tankmixes 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 device, to incorporate the herbicide. Care should be taken not to remove TOPNOTCH from the weed control zone. The device used should be run at a shallow depth to prevent disturbing the germinating corn.

Early Postemergence: TOPNOTCH may be used early-postemergence (up to 11" tall) in corn. Applications must be made prior to weed seedling emergence or in a tank mixture that controls the emerged weeds. Read and follow restrictions and directions on tankmix product labels.

Fall Application – For use in 1A (North of Route 30), MN, ND, SD: 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.

Sprinkler Irrigation: Do not apply TOPNOTCH by sprinkler irrigation. Use a sprinkler system only to incorporate TOPNOTCH after applying by ground equipment. After TOPNOTCH has been applied, a sprinkler irrigation system set to deliver ½ to ½ inches of water per acre may be used to activate the product. Using more than ½ inches of water could result in reduced performance. On sandy soil low in organic matter, use no more than ½ inch of water. Do not use flood irrigation to apply or activate TOPNOTCH.

## **PLANTING**

Planting should be done as soon as possible following the application of TOPNOTCH. This allows TOPNOTCH to provide effective weed control during the time it is most critical in the production of corn.

### CULTIVATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If TOPNOTCH was incorporated, cultivate less than ½ 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 soils are grouped into three classes; coarse, medium, and fine. Once the soil type has been determined, the texture group can be found in Table 1.

TABLE 1
Soil Texture Groupings for
TOPNOTCH Use Rate Selection.

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

The soil texture and interval between application and planting must be known prior to application to select the correct rate. The use rate of TOPNOTCH is determined by a combination of these two factors.

### **USE RATES**

Application can take place from up to 40 days prior to planting. The highest levels of control will be obtained when applications are made as close to planting as possible but before the weeds emerge. You may apply a residual herbicide like Atrazine, Bladex\*, or Extrazine\* with TOPNOTCH in reduced or no-till systems. If weeds are present at application, a burndown herbicide like GRAMOXONE EXTRA, TOUCHDOWN, or 2,4-D may be added to the tank mixture.



### TABLE 2 **TOPNOTCH Use Rates** Rates are in Quarts per acre.

		TIME FROM APPLICA	ATION TO PLANTING	
SOIL TEXTURE	Less than 10 Days	10 to 30 Days	30 to 40 Days	After Planting and/or Emergence
Coarse	2 qts.	2-21/4 qts.*	21/2 qts.*	2 qts.
Medium	2-2½ qts.	2½ qts.	2½-3 qts.	2-21/2 qts.
Fine	2½-3 qts.	2½-3 qts.	3-3% qts.	2½-3 qts.

- \*On coarse textured soils with less than 3% Organic Matter, the maximum rate is 2.25 qts/acre.
- · Use the lower rate when tank mixed with a residual herbicide like atrazine.
- · Use the higher rate when applied alone.

Weed Infestation: 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

BAND APPLICATIONS

For band applications, using row and band width measurements in inches, calculate the amount to be applied per acre as follows:

Band width in inches	v	Rate per acre for a		Amount needed
Row width	Х	broadcast	=	for a band
in inches		treatment		treatment

WEEDS CONTROLLED:
TOPNOTCH, applied as directed in this label, will provide control or partial 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 tankmixes. See the "Tankmix Combinations" section for recommended tankmix combinations and the additional weeds controlled. Always consult the tankmix product labels for specific rates and use directions. Always follow the most restrictive label when tank mixing TOPNOTCH with another product.

TABLE 3
Weeds Controlled or Partially Controlled by TOPNOTCH at Recommended Use Rates

COMMON NAME	WEED TYPE	SCIENTIFIC NAME	C = CONTROL PC = PARTIAL CONTROL
Black nightshade	В	Solanum nigrum	С
Carpetweed	В	Mollugo verticillata	С
Common ragweed	В	Ambrosia artemisiifolia	C
Florida beggarweed	В	Desmodium tortuosum	PC
Florida pusley	В	Richardia scabra	С
Galinsoga	В	Galinsoga parviflora	C
Hairy nightshade	В	Solanum sarachoides	С
Kochia	В	Kochia scoparia	PC
Lambsquarters, common	8	Chenopodium album	C,
Pigweed	В	Amaranthus spp.	C
Prickly sida	В	Sida spinosa	PC
Purslane, common	В	Portulaca oleracea	С
Smartweed spp.	В	Polygonum spp.	PC
Tall waterhemp	В	Amaranthus tuberculatos	c
Barnyardgrass	G	Echinochloa crus-galli	С
Bristly foxtail	G	Setaria verticillata	C
Broadleaf signalgrass	G	Brachiaria platyphylla	C'
Browntop panicum	G	Panicum fasciculatum	С
Crabgrass	G	Digitaria spp.	C
Crowfootgrass	G	Dactyloctenium aegyptium	С
Fall panicum	G	Panicum dichotomiflorum	С
Field sandbur	G	Cenchrus pauciflorus	PC
Foxtail millet	G	Setaria italica	С
Giant foxtail	G	Setaria faberi	C
Goosegrass	G	Eleusine indica	C

See footnotes on following page.

TABLE 3 (cont.)
Weeds Controlled or Partially Controlled by TOPNOTCH at Recommended Use Rates

COMMON NAME	WEED TYPE'	SCIENTIFIC NAME	C = CONTROL PC = PARTIAL CONTROL
Green foxtail	G	Setaria viridis	С
Prairie cupgrass	G	Eriochloa contracta	С
Red rice	G	Oryza sativa	С
Red sprangletop	G	Leptochloa filiformis	C
Robust foxtail (purple, white)	G	Setaria spp.	С
Seedling johnsongrass	G	Sorghum halepense	PC
Shattercane	G	Sorghum bicolor	PC
Southern sandbur	G	Cenchrus echinatus	С
Southwestern cupgrass	G	Eriochloa gracilis	С
Texas panicum	G	Panicum texanum	C.
Wild proso millet	G	Panicum miliaceum	PC
Witchgrass	G	Panicum capillare	С
Woolly cupgrass	G	Eriochloa villosa	PC
Yellow foxtail	G	Setaria lutescens	
Yellow nutsedge <sup>2</sup>	S	Cyperus esculentus	С



'Yellow nutsedge requires a minimum of 2½ quarts. Incorporation is required.

Light to moderate infestations will be controlled. Heavy infestations may require a tank mixture or sequential herbicide. 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.

## **TANKMIX COMBINATIONS**

## **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 to aid in the burndown of emerged weeds. Use only those adjuvants approved for agricultural crop use. Surfactants and/or low rate fertilizer (28%, 30%, or 32% UAN or ammonium sulfate) adjuvants may be used with tankmixes applied preplant or preemergence to the crop.

## PREEMERGENCE TANKMIX COMBINATIONS

Tankmix combinations may be used in all tillage systems and be applied by the same methods and at the same timings as TOPNOTCH unless otherwise specified in the tankmix product label. Three way or multiple tank mixtures are allowed if not restricted by the respective product labels. Check all tankmix product labels for proper rates for 3 way or multiple

## TOPNOTCH & ATRAZINE, BLADEX OR BANVEL\*/CLARITY\*:

Check the atrazine label, county extension office, or state university for the recommended use rate in your area. TOP-NOTCH is more active on broadleaf weeds than many other preemergence grass herbicides and atrazine rates can be reduced while maintaining control of target broadleaf weeds. Do not apply less than 1.5 qt. Atrazine 4L or equivalent with TOPNOTCH for broadleaf weeds listed.

Tank mixtures with atrazine will increase the spectrum of weeds controlled. Where AAtrex® formulations have been specified, other brands of atrazine may be used. Read and follow all atrazine label directions and restrictions. Table 4 provides a list of the weeds controlled or partially controlled by atrazine or Bladex in combination with TOPNOTCH.

Use Banvel tank mixture on flat-planted field corn (no furrows) in IL, IN, IA, MN, NE, OH, SD, and WI ONLY to control the weeds listed in Table 4. Read and follow all precautions and directions for use on the Banvel label.

Apply TOPNOTCH + Banvel preemergence. Tank mix 0.5 - 1 pt./acre Banvel with the recommended rate of TOPNOTCH for medium or fine textured soils. Do not apply this tankmix on coarse textured soils with less than 2% organic matter. Clarity or Marksman\* may also be used. Read and follow all precautions and directions for use on the Clarity or Marksman label.

**TABLE 4** Weeds Controlled (C) or Partially Controlled (PC) by Atrazine or Bladex

COMMON NAME	WEED TYPE*	ATRAZINE	BLADEX	BANVEL/CLARITY
Morningglory spp.	В	С	С	PC
Cocklebur	B [	c i	PC	PC
Groundcherry spp.	В	C		T —
Jimsonweed	8	С	C	PC
Kochia	В		C	
Mustards	В	С	С	С
Giant Ragweed	В	C	Č	С
Sicklepod	В	c T	C	PC
Velvetleaf	В	c	PC	PC

## \*B=Broadleaf

Caution: Following many years of continuous use of atrazine and chemically related products, biotypes of some of the weeds listed above have been reported which cannot be effectively controlled by atrazine and related herbicides. Where this is known or suspected and weeds controlled by atrazine are expected to be present along with resistant biotypes, it is recommended that atrazine be used in combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide. In certain atrazine management areas, atrazine rates are further restricted due to potential groundwater or surface water contamination. If rates in this table exceed the rate of application allowed in your area—use the lower rate. Consult your county extension office or state university for further information.



## TOPNOTCH ADDITIONAL TANKMIX COMBINATIONS

TANKMIXES	TANKMIXES RATE (MAX) COMMENTS	
Extrazine	See Label	-consult label
Prowi*3.3-EC	See Label	-triazine resistant weeds -velvetleaf -preemergence only
Lorox® DF	ox® DF See Label -enhanced lambsquarte	
Princep* 4L	See Label	-improved crabgrass or fall panicum control
Pursuit*	See Label	-tolerant corn hybrids required
GRAMOXONE EXTRA	3 pts/acre	-controls emerged annuals, suppresses perennials
TOUCHDOWN	6.33 pts/acre	-controls annuals and some perennials
Sencor* DF	See Label	-broadleaf weeds in Atrazine sensitive areas
2,4-D	See Label	-consult label
WARRIOR	3.84 fl oz/acre -for control of many insects such as cut	

TOPNOTCH & GRAMOXONE EXTRA, TOUCHDOWN, 2,4-D
In reduced or no-till corn, GRAMOXONE EXTRA, TOUCHDOWN, and/or 2,4-D will burndown existing weeds. GRAMOXONE
EXTRA should be applied to emerged weeds when they are small. Weeds 1 to 6 inches in height are the easiest to control.
Large weeds may be more difficult to control. Tankmixes with atrazine and Bladex will often aid in control of difficult weeds.
Consult the GRAMOXONE EXTRA, TOUCHDOWN, or 2,4-D product label for further information on weeds controlled.
GRAMOXONE EXTRA is a RESTRICTED USE pesticide. Refer to the GRAMOXONE EXTRA label for rates, directions, pre-

cautions, and limitations relative to its use.

POSTEMERGENCE TANKMIX COMBINATIONS

TOPNOTCH may be applied before, with, or following the use of one or more of the following herbicides: Accent®, atrazine, Banvel®, Basis™, Basis Gold, Beacon®, Bladex, Buctril®, BuctrilØatrazine, Clarity, Exceed®, Extrazine II, Headline™, Liberty™, Lightning™, Marksman, Peak®, Permit®, Poast® (Plus and HC), Princep, Prowl, Pursuit, Scorpion™ III, Shorgun®. Read the other product label(s) for 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 on the other manufacturers label. er's label.

When tank mixed, read the other product label and follow the additional use directions given in this table:

TOPNOTCH can be applied to corn up to 11" tall

## **TOPNOTCH PLUS:**

PRODUCT	RATE	COMMENTS
Banvel Clarity Marksman	0.5-1 pt/A 8-16 oz/A 2-3.5 pt/A	<ul> <li>Apply preplant or preemergence in reduced/no-till systems.</li> <li>Preemergence on all soils; medium and fine textured with &gt;2% OM.</li> <li>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.</li> </ul>
Buctril Buctril/atrazine Shotgun	1.5 pt/A 2 pt/A 2-3 pt/A	Refer to product label for use directions.     Refer to Shotgun label for timing and use directions.
Atrazine	0.5-2.0 lb.ai/A	<ul> <li>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.</li> </ul>
Bladex Extrazine II	1.0-2.0 lb ai/A 1.0-2.0 lb ai/A	<ul> <li>Postemergence (up to 4-leaf stage corn) but before weeds are more than 1.5" tall. Apply in water only. Do not spray emerged corn plants with a mixture containing liquid fertilizer. These mixtures are not recommended on sand or loamy sand soils with less than 1% organic matter.</li> </ul>
Liberty	16 - 28 oz/A	FOR USE ON LIBERTY TOLERANT CORN ONLY. Apply until the corn is 24" tall or in the V-7 stage of growth. Apply to grass and broadleaves up to 6" tall. Do not add additional surfactant.

continued

## TOPNOTCH PLUS:

PRODUCT	RATE	COMMENTS		
Lightning	1.28 oz/A	<ul> <li>FOR USE ON IMI CORN ONLY. Use a NIS at .25% v/v and a liquid nitrogen fertilizer at 1-2 qts per acre or ammonium sulfate at 2.5 lbs per acre.</li> </ul>		
Poast Plus Poast HC	16-24 oz/A 7.0-10.5 oz/A	• FOR USE ONLY ON SETHOXYDIM RESISTANT (SR) FIELD CORN. Use for postemergence control of certain annual and perennial grass weeds. Add Dash HC or crop oil concentrate Severe crop injury will occur to corn hybrids not labeled as SF corn.		
Prowl 3.3 EC	1.8-3.6 pt/A	Preemergence to early postemergence (up to 3" tall corn) bu before weeds are more than 1" tall.		
Princep	1.0-3.0 lb ai/A	Preplant surface, preplant incorporated, preemergence to corn.		
Pursuit 2.5L Pursuit 70DG	4 fl oz/A 1,4 fl oz/A	<ul> <li>Use only on Pursuit resistant (IR) or tolerant (IT) varieties.</li> <li>Apply preplant surface, preplant incorporated, preemergence or early postemergence (up to 3" tall weeds).</li> </ul>		
Resource	4-6 oz/A	<ul> <li>Apply up to 10 leaf corn to weeds less than 5" tall. Add a crop oil concentrate at 1-2 pt/A and either 28% nitrogen at 2% v/v of ammonium sulfate at 2.5 lb/A. May cause some burn or spotting to corn leaves.</li> </ul>		
2,4-D Ester		<ul> <li>Apply preplant surface or preemergence to control emerged broadleaf weeds in corn.</li> </ul>		
Accent 75WDG Beacon 75WDG Basis	%-% oz/A .76 fl oz/A %-% oz/A	Minimum TOPNOTCH use rates (Qts/Acre):     Soil ≤3%QM 3-7%QM ≥7%QM     Coarse 1.5 1.5 2     Medium 1.5 1.5-2 2     Fine 1.5 1.5-2 2     Always add NIS at .25% (v/v); and 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 contro of broadleaf weeds.		

continued

## **TOPNOTCH PLUS:**

PRODUCT	RATE	COMMENTS
Basis Gold 14 c	14 oz/A	Minimum TOPNOTCH use rates (Qts/Acre):
		Soil ≤3%0M 3-7%0M ≥7%0M
		Coarse 1.5 1.5 2
	1	Medium 1.5 1.5-2 2
		Fine 1.5 1.5-2 2
		<ul> <li>Always add crop oil concentrate at 1.0% v/v or under dry a conditions, 2.0% v/v and 28% liquid nitrogen at 2 qt/A ammonium sulfate at 2 lb/A.</li> <li>Banvel, Clarity, Marksman, Buctril, Scorpion III, or Tough n be added to this mixture to provide burndown and resid control of broadleaf weeds.</li> </ul>
WARRIOR	1.92-3.84 fl oz/A	For control of many insects such as cutworm and stalk bore.

## **TOPNOTCH PHYSICAL DATA**

· Specific gravity:

1.16 @ 20°C

Flashpoint:

> 200°F

## APPENDIX I

Procedure for Testing the Compatibility of TOPNOTCH and Tankmixes 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 tankmix products.

• Fluid fertilizer to be used.

• Adjuvant for fertilizer tankmix: 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 which provides the best emulsification depends on the specific fertilizer under consideration. cific 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 tankmix 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. EC's should be added at the rate of ½ teaspoon for each pint per acre to be applied. EC's should be added at the rate of ½ teaspoon for each pint per acre to be applied. 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.

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 nondispersible oil, sludge, or clumps of solids form in the mixtures, the combination should not be used.

## **APPENDIX II**

## Dry Bulk Fertilizer Impregnation

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the TOPNOTCH, TOPNOTCH plus atrazine, or TOPNOTCH plus Bladex fertilizer mixtures.

When applying TOPNOTCH alone or in tankmixes with dry bulk fertilizers, follow all directions for use and precautions on the respective tankmix product labels regarding rates, soil texture, application methods and rotational restrictions.

## Approved Dry Fertilizer Ingredients for Use with TOPNOTCH'.

FERTILIZER	N	P	K
Ammonium Phosphate-Sulfate	16	20	0
Ammonium Sulfate	21	0	0
Diammonium Phosphate	18	46	0
Monoammonium Phosphate	11	56	0
Potassium Chloride	0	0	60
Potassium Sulfate	0	0	52
Single Superphosphate	0	20	0
Treble Superphosphate	0	46	0
Urea <sup>2</sup>	45	0	0

<sup>&#</sup>x27;Do not impregnate on fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate.

For impregnating the pesticides on dry fertilizers, use suitable mixers equipped with suitable spraying equipment. The spray nozzles should be positioned inside the mixer to provide uniform spray coverage of the tumbling fertilizer. The TOP-NOTCH should be sprayed uniformly onto the fertilizer using a fine spray pattern. Tankmix components may be applied as separate ingredients with powders and dry flowables added first or they may be mixed in a slurry in the proper ratio and added jointly.

TOPNOTCH may also be impregnated on dry bulk fertilizer in the field while the fertilizer is being spread using a pneumatic applicator equipped to impregnate herbicides.

<sup>&</sup>lt;sup>2</sup>Some Ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

If the herbicide/fertilizer mixture is too wet, use of a drying agent is required to provide a dry, free-flowing mixture. For mixtures to be used in spinning-disc applicators, Micro-Cel™ E calcium silicate powder (Manville, Filtration & Minerals) is recommended for use as a drying agent. Mixtures to be used in pneumatic applicators should use Micro-Cel E or Agsorb™ 16/30 RVM-MS granular clay (Oil-Dri Corporation). The drying agents should be added separately and uniformly to the prepared pesticide/fertilizer mixture, in a quantity that is sufficient to provide a suitable free-flowing mixture. Generally, less than 2% Micro-Cel E or 5% Agsorb 16/30 RVM-MS by weight is required.

The following table provides a reference to determine the amount of TOPNOTCH to be mixed per ton of dry bulk fertilizer for a range of herbicide rates.

FERTILIZER RATE (LB/ACRE)	ACRES COVERED (PER TON)	TOPNOTCH QUARTS/ACRE			
		2 Qt/A	2.5Qt/A	3Qt/A	
		Quarts Herbicide/ Ton Fertilizer			
200	10.0	20.0	25.0	30.0	
300	6.7	13.4	16.8	20.1	
400	5.0	10.0	12.5	15.0	
500	4.0	8.0	10.0	12.0	
600	3.3	6.6	8.3	9.9	
700	2.9	5.8	7.3	8.7	

To determine the amount of TOPNOTCH needed for other rates of fertilizer, use this formula:

TOPNOTCH (quarts) X 2000

Quarts of TOPNOTCH per ton fertilizer

quarts) X 2000 pounds fertilizer/acre Made in U.S.A.

# **ZENECA** Ag Products

ZENECA Inc. Wilmington, Delaware 19850-5458

RESTRICTED USE PESTICIDE

Due to Oncogenicity

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

**ZENECA** Ag Products



For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

## **ACTIVE INGREDIENT:**

Acetochlor

2-chloro-2'-methyl-6'-ethyl-INERT INGREDIENTS: 66.32% TOTAL......100.00%

Contains 3.2 pounds active ingredient per gallon EPA Reg. No. 10182-391

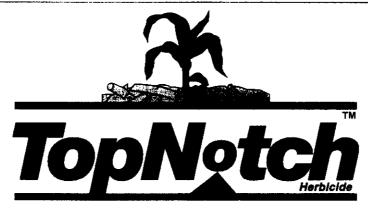
## KEEP OUT OF REACH OF CHILDREN **CAUTION**

SEE ATTACHED BOOKLET FOR COMPLETE DIRECTIONS FOR USE

## RESTRICTED USE PESTICIDE

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## For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

ACTIVE INGREDIENT

2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetamlide INERT INGREDIENTS:

TOTAL

33 687.

Contains 3.2 pounds active increalient per invite EPA Reg No. 10182-391

EPA Est No \_

**KEEP OUT OF REACH OF CHILDREN** CAUTION

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FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800 A.S.T.M.E.D (327-8633).

R CHEMICAL EMERGENCY, Spill, leak, fire, exposure, or accident at CHEMITREC 1-800-424-9300.

## **PRECAUTIONARY STATEMENTS**

VARDS TO HUMANS AND DOMESTIC ANIMALS

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CAUTION
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## PERSONAL PROTECTIVE EQUIPMENT

- Applicators and other handlers must wear Long-sleeved shirt and long parits
- Waterproof gloves

Shoes bus socks. Oscard cityling and other absorber materials frob have been winning and other absorber materials frob have been winning to continuated with this product size certain. Since their Fig. winning for turns instructions for cleaning materiality (PS), along such independent on the water sockes use delarged and his water. Keep and such PDS appoints a minimum formatting.

When handlers use closed systems, enclosed data on under finding the measurements inted in the Northern detection blandard. More included hand Northern data pesticides (40 CFR 170 240/314-64) the homotie PME reformed in the own produced or modified as specified in the Well.

## User Safety Recommendations

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PHYSICAL AND CHEMICAL BAZARDS

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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## DIRECTIONS FOR USE

is a violation of Federal law to use this product in a manner inconsistent with this

tabeling Do not apply this product in a way that will contact workers or other parsons, either other by 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 particular regulation.

Refer to label booklet attached to container for Complete Directions for Use

AGRICULTURAL USE REQUIREMENTS
Use linis product only in accordance with its labeling and with the Worker
Profestion Standard 40 CFR part 170. Refer to supplemental labeling (re
attached booker) under "AGRICULTURAL USE REQUIREMENTS" in the
DIRECTIONS FOR USE section for information about this standard.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate writer food or feed by storage or disposal Open dumping is prohibited Do not resule emply container.

STORAGE, Resp consumer tightly closed when not in use. Do not store near seeds fertilizers or load stuffs. Can be stored at temperatures as low earment 30 F.

PESTICIDE DISPOSAL. Rines spray equipment Pestidide weeks are acutely hazactous. Improper disposal of excess pesticute, spray moture or insiste is a violation of Federal two. If these weeks cannot be disposed of by use according to label estimations contact your State Pesticute or Environmental Control Agency or the Paracticus Water Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Reseal container and offer for reconditioning or clean in scorrigance with manufacturers instructions. Before refolion, inspect from the provider damage.

CONTAINER PRECAUTIONS. Before refilling inspect thoroughty for damage such as cracks punctures burges dents abrasions and damaged or worn threads on cosure devices.

intreads on closure devices

AEFILL ONLY WITH TOPNOTCH herbicide. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than TOPNOTCH will result in contamination and may weaken container.

After filling and before Immsporting, check for leaks. Do not retill or transport dam aged or leaking container. Oriculation before dispensing is required. CONTAINER IS NOT SALE FOR FOOD FEED OR DRINKING WATER!

TopNotch™ is a trademark of a ZENECA Group Company

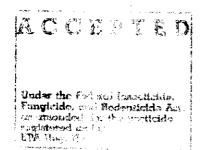
1997 ZENECA Inc.

 1997 ZENECA

Contents:

# **ZENECA** Ag Products

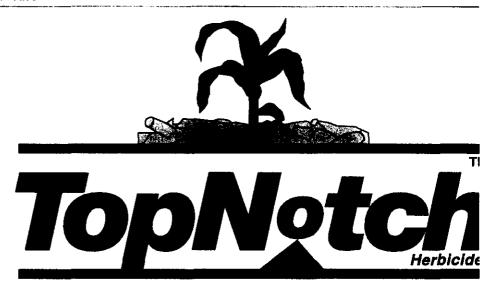
ZENECA Inc. Wilmington, Delavare 19850-5458



## RESTRICTED USE PESTICIDE

Due to Oncogenicity

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only f Certified Applicator's certification



## For Use Only on Field Corn, Production Seed Corn, Silage Corn and

## **ACTIVE INGREDIENT:**

Acetochlor

2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetaniidc **INERT INGREDIENTS:** 

35 68% 66.32% 100 00%

TOTAL

Contains 3.2 pounds active ingredient per gallow

EPA Reg. No. 10182-391

EPA Est. No.

## **KEEP OUT OF REACH OF CHILDREN** CAUTION

## **STATEMENT OF PRACTICAL TREATMENT**

Immediately start the procedures below. If further insulational is required a court Poison Control Center, a physician or the nearest respital

- ash with plenty of soap and water. Get medical attention I IN EYES:
- randiately flush eyes with plenty of water for it as assume nature. The care call attention if irritation occurs

  IF SWALLOWED:
- It SWALLOWED: Dall a physician or Poison Control Center. Drink 1 of a glasso: of water and vidous vomiting by touching the back of the throat with finger. Do not include a vomiting or give anything by mouth to an unconscious or convulsing temsor. anything by m

Remove victim to fresh air. Get medical attention if respiratory initiation are used in breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

## **PRECAUTIONARY STATEMENTS**

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. Again consists with skin, eyes or clothing. Wash thoroughly with soap, and water taindling. Prolonged or frequently repeated skin contact man tests calledge made to be a contact.

## PERSONAL PROTECTIVE FOLIPMENT

Applicators and other handlers must wear

- · Long-sleeved shirt and long pants
- · Waterproof gloves
- Shoes plus socks

Discard clothing and other absorbent materials that have been previously to contaminated with this product's concentrate. Do not reuse them foliable in and of turer's instructions for cleaning/maintaining PEE of its such instruction for wastables, use detergent and hot water. Keep and east PIM previously for the

When handlers use closed systems, enclosed salts, or arritable to parameter that meets the requirements listed in the Worker Frote for Sustainable ASSs for agricultural postcides [40, CFR, 179,240(d)]4-6), this handler CSSs compared to a reduced or modified as specified in the WSS.

## **User Safety Recommendations**

Users should - Wast-hands before eating drinking howing gues asked let a co

Remove clothing immediately if pestiods outs inside. Their wash this oughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside

of gloves before removing. As soon as possible, wast thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

The conductor team of the Detrompty decomposition of the account of the water spread of the interfided areas below the mean high, voter confidence water when disposing of equipment washivation. This intermedial demonstrates the properties and characteristics associated with chemical detected in groundwater. The use of this observation areas where soils are purmeable particularly where the groundwater is shallow may result in constitution constitutions. groundwater contamination.

qualifying the properties that may result in surface, write is administrated a dissolved transit and ranoff erosion. Practices should be followed to noninize the pidential terminated and rentransfer runoff erosion.

## PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be

The Directions for Use of this product should be followed carefully: 31-x impossible one previous for Use of this product should be follower carefully. It is impossible to animate all risks inherently associated with the use of this product. Goodingly additionable or other unintended consequences may result because of such finitios, as manner of use or application, weather or crop randitions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller, All such risks shall be assumed by Buyer and User large to rold ZENECA and Seller harmless for any claim is a such a greater and User agree to rold ZENECA and Seller harmless for any claim. to such lactors.

ZENECA warrants that this product conforms to the chemical description on the 1-bet and is teasonably at for the purposes stated in the Directions for Use and is tessenately 8 for the purposes stated in the Directions for Use 1.4, notice inherent insist referred to above, when used in accommance with directions, under commander continuous renders on the use of this product contrary to label instructions for under abnormal conditions at under conditions not reasonably foreservable to be beyond the control of Seller or ZENECA and Buyer and Use assume the case of any such use ZENECA MAKESING WARRANTIES OF MESSAGE CHANSABLUTE OR OF FITNESS FOR A PARTICIPATE SURPOSE NOR ANY OTHER EXPRESSIOR IMPOSED WARRANTY EXCEPTIAS STATED ABOVE.

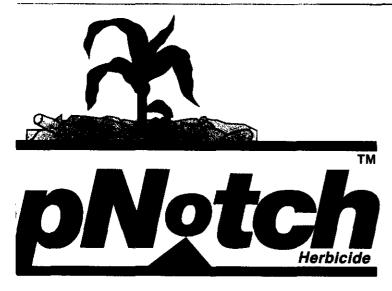
OTHER EXPIRES OR IMPLIED WARRANTY EXCEPT AS CIATED ABOVE. It is not come that ZENEGA or Seller be liable for any incatental come of professional come of the district of the exclusive liability of the use of handling of the exclusive liability of zenega and seller for any and all claims. Losses, injuries or damages (including claims based on breach of warranty, contract negligence, tort, strict liability or otherwise) pestiting from the use or handling of this product, shall be the zeturn of the purchase price of the product or, at the election of zenega or seller. The replacement of the product.

ZENECA and Safter offer this product, and bayes and user accept at subject to bredoing constitutions of warderts and affoliate, which may be not breditter as one or will be accepted accepted to be a subject with the accepted by the subject to proceed and accepted to the accepted to the

## RESTRICTED USE PESTICIDE

Due to Oncogenicity

olicators or persons under their direct supervision, and only for those uses covered by the



Corn, Production Seed Corn, Silage Corn and Popcorn

## **DIRECTIONS FOR USE**

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

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.

Refer to label booklet attached to container for Complete Directions for Use.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling (i.e., attached booklet) under "ASRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

## STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal Open dumping is prohibited. Do not reuse empty container

STORAGE: Keep container lightly closed when not in use. Do not store near seeds fertilizers, or food stuffs. Can be stored at temperatures as low as minus 30°F.

PESTICIDE DISPOSAL: Rinse soreu at temperatures as two as timos of Pesticide wastes are acutely hazardous. 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.

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

CONTAINER PRECAUTIONS: Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

REFILL ONLY WITH TOPNOTCH herbicide. The contents of this container canno be completely removed by cleaning. Refilling with materials other than TOPNOTCH will result in contamination and may weaken container.

After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. Circulation before dispensing is required.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

TopNotch™ is a trademark of a ZENECA Group Company. ₹ 1997 ZENECA Inc.

Contents:			

Made in U.S.A.

# **ZENECA** Ag Products

ZENECA inc. Wilmington, Delaware 19850-5458



EPA Reg. No. 10182-391 EPA Est. No. 10182-NB-1

## STATEMENT OF PRACTICAL TREATMENT

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: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: immediately flush eyes with plenty of water for at least 15 minutes. Get medical atten-

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vonxting by touching the back of the throat with finger. Do not induce vorniting or give anything by mouth to an unconscious or convulsing person.

IF INNALED: Remove victim to fresh air Get medical attention if respiratory irritation occurs or if breathing becomes difficult

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633). FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-

### 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 altergic reaction in some individuals.

- PERSONAL PROTECTIVE EQUIPMENT
  Applicators and other handlers must wear
  Long sleeved shirt and long pants
- Waterproof gloves

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/manutaining PPE. If no such instructions for washables, 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 require-ments 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

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
   Remove clothing immediately if pesticide gets made. Then wash thoroughly and put on
- clean clothing.

  Remove PPE immediately after handling this product. Wash the outside of gloves hefore removing. As soon as possible, wash thoroughly and change into clean clothing.

## **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.

PHYSICAL AND CHEMICAL HAZARDS
Do not use or store near heat or open flames

## **DIRECTIONS FOR USE**

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

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.

## **CONDITIONS OF SALE** AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability found in the attached booklet before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling (i.e., attached booklet) under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

## STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE**: Keep container tightly closed when not in use. Do not store near seeds, fertilizers, or food stuffs. Can be stored at temperatures as low as minus 30°F.

PESTICIDE DISPOSAL: Rinse spray equipment. Pesticide wastes are acutely hazardous 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

CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

TOPNOTCH" is a trademark of a ZENECA Group Company

@: 1997 ZENECA Inc.

## ZENECA Ag Products

ZENECA Inc.

Contents: 2½ gal (9.46L)

04004773 109703

ACCEPTED

DEC 15 1997

Under the Federal Insecticids. Fungicide, and Rodenticide Act. as amended, for the posticide registered under EPA Reg. Mr. 10/82-39



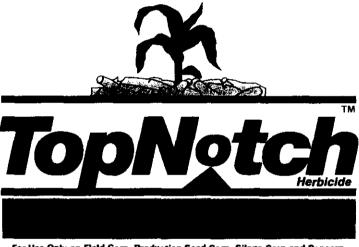


Contents: TWO-2½ gal (9.46 L) plastic jugs

## RESTRICTED USE PESTICIDE

Position of the Committee of the Committ

ZENECA Ag Products



For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

Contents: TWO-2½ gal (9.46 L) plastic jugs





Contents: TWO-2½ gal (9.46 L) plastic jugs



## For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

ACTIVE INGREDIENT:

Acetochlor 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetamilide **INERT INGREDIENTS:** 

TOTAL

Contains 3.2 pounds active ingredient per gallon EPA Reg. No. 10182-391

EPA Est. No. 10182 NB 1

## **KEEP OUT OF REACH OF CHILDREN** CAUTION

STATEMENT OF PRACTICAL TREATMENT FIRST AID. Immediately start the procedures below. If further treatment is required Center, a physician or the nearest hospital. IF ON SKIN: Wash with plenty of soap and water. Get medical attention equired, contact a Poison

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

IFRAMALLOWED: Call a physician or Poison Control Center, Drink 1 or 2 glasses of water and induce vom-iting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

an unconscious or convulsing person.

IF INHALED: Remove victim to fresh air. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-9-T-M-E-D (327-8633) FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMITREC 1-800-424-9300

## **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

- Applicators and other bandlers must wear
- Long sleeved shirt and long pants
- Shoes plus socks

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

When handlers use closed systems, euclosed cars, or pircraft in a manuer that risets the requirements test on the Worker Protection Standard (NPS) for agricultural pesticides (40 CFR 170.240id)(4-61), the handler PEF requirements may be reduced or modified as specified in the WPS.

## User Safety Recommendations

- Wash hands before eating, drinking, chewing guin, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clear
- clothing
- Bemove 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
This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to interitual areas below the mean high water mark. Do not containinate 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, princularly where the groundwater is shallow, may result in groundwater contamination. Acetochior has properties that may result in surface water contamination, or a dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff ander runoff.

runoff erosion.

PHYSICAL AND CHEMICAL HAZARDS
Do not use or store near heat or open flames

## **CONDITIONS OF SALE** AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Reart the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product, if the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. Alt such risks shall be assumed by Buyer and User, and Buyer and User.

agree to hold ZENECA and Seller harmless for any claims relating to such factors. ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseasable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Saller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE; RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with this labelling. Refer to label booklet attached to container for Complete Directions for Use. 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 require ments specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

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Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170, Refer to supplemental labeling (i.e., attached booklet) under "AGRICULTURAL LUSE RECUIREMENTS" in the DRECTIONS FOR USE socion for information about this

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

\$\frac{\text{TORAGE}}{\text{CROME REPORTS}}\$ is prohibited. Do not reuse empty container.

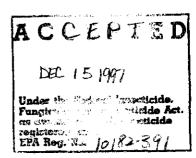
\$\frac{\text{TORAGE}}{\text{CROME REPORTS}}\$ is prohibited by the properties of the pr

nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse for equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning, if burned, stay out of smoke.

Top Notch is a trademark of a ZENECA Group Company

ZENECA Inc



# **ZENECA** Ag Products

ZENECA Inc. Wilmington, Delaware 19850-5456



## For Use Only on Field Corn, Production Seed Corn, Silage Corn and Popcorn

## **ACTIVE INGREDIENT:**

### Acetochlor

 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide
 33.68%

 INERT INGREDIENTS:
 66.32%

 TOTAL
 100.00%

Contains 3.2 pounds active ingredient per galton.

EPA Reg. No. 10182-391 EPA Est. No. 10182-NB-1

# CAUTION

## STATEMENT OF PRACTICAL TREATMENT

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: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED: Remove victim to fresh air. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

## 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 frankling. Protonged or frequently repeated skin contact may cause altergic reaction in some individuals.

## PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear

- · Long-sleeved shirt and long pants.
- Waterproof gloves.
- 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, 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.

## **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.

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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.

## PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flames

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WAR-RANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

## **DIRECTIONS FOR USE**

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CONTAINER DISPOSAL: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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# **ZENECA** Ag Products

ZENECA Inc. Wilmington, Delaware 19850-5458