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08/27/99

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.

DOUBLEPLAY® Selective Herbicide

Preplant Incorporated Herbicide for Weed Control (including foxtails, crabgrass, barnyardgrass, and suppression of woolly cupgrass, wild proso millet, and field sandbur) in Field Corn, Production Seed Corn, Silage Corn and Popcorn

ACTIVE INGREDIENTS:

S-ethyl dipropylthiocarbamate	67.8%
Acetochlor	
2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide	16.9%
INERT INGREDIENTS:	<u>15.3%</u>
TOTAL	100.0%

Contains 7.0 pounds of active ingredient per gallon (5.6 lbs ai/gal EPTC and 1.4 lbs ai/gal acetochlor).

EPA Reg. No. 10182-388

ACCEPTED AUG 27 1999

Under the Federal Insecticide. Fungicide, and Rodenticide Act, as amended, for the pesticide BPA Rog. No

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

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

> Made in U.S.A. ZENECA Ag Products ZENECA Inc. Wilmington, DE 19850-5458

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COMPLETE DIRECTIONS FOR USE

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.

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 WARRANTIES 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 demages 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 writter, agreement signed by a duly authorized representative of ZENECA.

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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 IN EYES: Call Physician. Hold eyelids open and flush with a gentle steady stream of water for 15 minutes.

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

IF SWALLOWED: Call Physician or Poison Control Center. Drink promptly a large quantity of milk, egg white or gelatin mixture, or if these are not available, large quantities of water. Avoid alcohol. Do not give anything by mouth to an unconscious person.

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

WARNING

CAUSES SUBSTANTIAL BUT REVERSIBLE EYE INJURY AND SKIN IRRITATION. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. Do not get in eyes or on skin or clothing. Wear goggles or face shield. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton.
- Shoes plus socks.
- Protective eyewear.

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.

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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 washwater or rinsate.

Acetochlor 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.

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DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralis.
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton
- Shoes plus socks.
- Protective eyewear.

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.

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STORAGE AND DISPOSAL

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

STORAGE: Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 25°F.

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.

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 DOUBLEPLAY. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than DOUBLEPLAY 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!

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GENERAL INFORMATION

DOUBLEPLAY® Selective Herbicide is a selective soil applied herbicide which must be mixed or incorporated into the soil for control of weeds listed on this label. This herbicide controls weeds by interfering with normal germination and seedling development. It 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.
- 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.

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- 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 this product on any crop other than corn.
- If crop treated with this product is lost, corn may be replanted immediately. Do not make a second application of DOUBLEPLAY.
- DOUBLEPLAY can be stored at temperatures as low as minus 25°F.
- DOUBLEPLAY should be used for recommended purposes and at recommended rates. Do not overdose.
- DOUBLEPLAY is recommended for use only on mineral soils (those soils containing less than 10% organic matter).
- Do not use DOUBLEPLAY on corn seed stock such as Breeders, Foundation or Increase.
- DOUBLEPLAY may be used on production seed corn.
- Do not use DOUBLEPLAY on sorghum or milo.
- Do not allow DOUBLEPLAY to contaminate water to be used on susceptible crops and ornamentals, or for domestic purposes.
- Do not allow DOUBLEPLAY to contaminate feed or food.
- DOUBLEPLAY should not be stored near seeds or fertilizers.
- All containers of DOUBLEPLAY should be kept tightly closed when not in use.
- DOUBLEPLAY will not harm the treated crop nor leave harmful soil residues past harvest when applied properly and environmental conditions exist for normal plant growth during the season.

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- Adverse conditions such as unusually cold and wet or hot and dry weather during germination and early growth; insect, nematode or plant disease attack; carryover soil residues of persistent herbicides or use of certain soil applied systemic insecticides can create abnormal conditions that weaken crop seedlings. DOUBLEPLAY used under these conditions could result in crop injury.
- Continuous use of DOUBLEPLAY in the same fields consecutively year after year can, in some areas, lead to a decrease in the level of performance. As a precaution, DOUBLEPLAY treated fields should be rotated with another crop or herbicide classification on an annual program.
- ROTATIONAL CROPS: Corn, soybeans, sorghum or tobacco may be planted the spring following application. Wheat may be planted 4 months after application.
- Do not rotate to crops other than corn, soybeans, sorghum, tobacco, or wheat.

APPLICATION DIRECTIONS

CARRIERS:

Liquids: Either water or fluid 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 DOUBLEPLAY is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry Bulk Fertilizer: DOUBLEPLAY may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread.

Bulk fertilizer impregnated with DOUBLEPLAY should be applied immediately, not stored.

It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce probability of EPTC loss via volatilization.

When application and incorporation are done in separate operations, impregnated fertilizer must be incorporated on the same day as applied.

When separate operations delay incorporation, applications must be made on a soil surface dry to 1/2 inch deep and free from dew and incidental moisture.

See APPENDIX II and consult your local dealer for details including what fertilizers are compatible.

ADDING TO SPRAY TANK:

If DOUBLEPLAY is used alone:

Add the recommended amount to a clean (thoroughly rinsed and decontaminated) spray tank before it is half filled so that addition of the remaining water or fluid fertilizer carrier can aid in the thorough agitation and mixing of the spray solution.

If a tank mixture is used:

See directions under the TANKMIX COMBINATIONS section of this label.

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VOLUME:

Apply in 10 to 60 gallons of water or fluid fertilizer per acre using a properly calibrated sprayer having good agitation.

PRESSURE:

Use 20 to 40 psi to ensure good distribution in the spray pattern.

SOIL MOISTURE AND TILTH:

Improper incorporation or poor tilth such as large clods may result in erratic or unsatisfactory weed control.

The soil should be dry enough to permit good soil mixing or incorporation.

Any application of DOUBLEPLAY that is not immediately incorporated in the same operation must be made to a soil surface dry to at least 1/2 inch deep and free from dew and incidental moisture.

INCORPORATION TIMING:

Application and incorporation should be done in the same operation when possible.

Applications in water or fluid fertilizer must not have more than a 4 hour delay between application and incorporation.

When application and incorporation are separate operations in the semi-arid areas of Eastern Washington, Eastern Oregon and Idaho, DOUBLEPLAY must be incorporated the same day as applied. See moisture statement above.

DOUBLEPLAY impregnated on dry bulk fertilizer must be incorporated on the same day as application. See moisture statement above.

INCORPORATION EQUIPMENT AND METHODS:

DOUBLEPLAY must be incorporated into the soil to prevent loss of the herbicide.

Field cultivator: Use on all soils in good tilth. Equip with 3 to 4 rows of sweeps spaced at 7 inches or less and staggered from row to row to leave no soil unturned or undisturbed. Set the field cultivator to cut 4 inches deep. Operate at 6 MPH or more. Follow by a harrow or leveling device. Chisel plows or point should not be used. If field sandbur, wild proso millet and/or woolly cupgrass are present, use two passes to improve control.

Tandem disc: Can be used on all soil types. Set disc to cut 4 inches deep. Operate disc at 4 to 6 MPH. Follow disc by a harrow or leveling device slightly wider than that of the disc. Two passes in different directions will improve incorporation. On the second pass the disc should be operated 1" shallower than on the first pass. If field sandbur, wild proso millet and/or woolly cupgrass are present, a second incorporation will improve control or suppression.

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Sprinkler Irrigation: Do not apply DOUBLEPLAY by sprinkler irrigation. Use a sprinkler system only to incorporate DOUBLEPLAY after applying by ground equipment as follows:

In the semi-arid areas of Eastern Washington, Eastern Oregon and Idaho, DOUBLEPLAY may be surface applied immediately after planting.

See soil moisture statement above.

The DOUBLEPLAY can then be incorporated using 1/2 to 3/4 inch of water within 36 hours following application.

The application and incorporation must be done within 5 days after the last tillage operation since poor results will occur if weeds have germinated.

PLANTING:

Planting should occur as soon as possible after application and always within 2 weeks after treatment.

Plant seed to a maximum depth of 2 inches.

Avoid moving or shaping soil after incorporation since this can remove DOUBLEPLAY from the row and result in a loss of weed control.

CULTIVATION:

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

A shallow cultivation is less than 1/2 the depth of incorporation.

WEEDS CONTROLLED AND USE RATES

Consult Tables 1 and 2 below. NOTE COMMENTS AND RESTRICTIONS IN TABLES 1 AND 2.

TABLE 1 BROADCAST RATE (Pints) OF DOUBLEPLAY PER ACRE

The annual broadleaf weeds listed below will be controlled only if treatment is made when conditions are favorable for weed seed germination and growth. Under prolonged conditions of very cold soil, control of the listed broadleaf weeds may not be adequate.

ANNUAL GRASS AND BROADLEAF WEEDS	SCIENTIFIC NAME	U.S. (except CA, AZ, FL)	C = CONTROL PC = PARTIAL CONTROL	COMMENTS AND RESTRICTIONS
Barnyardgrass (Watergrass)	Echinochloa spp.	4.5 - 7	С	GENERAL
Foxtail, giant	Setaria faberi	4.5 - 7	С	Use the lower rate for light infestations and coarse textured
Foxtail, green	Setaria viridis	4.5 - 7	СС	soils.
Foxtail, yellow	Setaria lutescens	4.5 - 7	C	Do not exceed 8 pints per acre per year.
Crabgrass	Digitaria spp.	4.5 - 7	c	When DOUBLEPLAY is used in the southeastern U.S. on
Panicum, fall	Panicum dichotomiflorum	4.5 - 7	C	silage corn, do not seed small grains until September.
Lambsquarters, common	Chenopodium album	5 - 7	C	When furrow irrigation is used on flat planted corn on the
Nightshade, black	Solanum nigrum	5-7	C	Western slope of Colorado, do not form furrows until corn is in the three-leaf stage.
Nightshade, hairy	Solanum sarachoides	5 - 7	c	Soils lacking enough moisture for seed germination must be
Pigweed, redroot (Common)	Amaranthus retroflexus	5 - 7	C	pre-irrigated prior to DOUBLEPLAY application.
Tall waterhemp	Amaranthus spp.	5-7	C	
Field sandbur ¹	Cenchrus pauciflorus	6-8	PC	
Wild proso millet'	Panicum miliaceum	6-8	PC	
Woolly cupgrass ¹	Eriochloa viridis	6-8	PC)
Volunteer barley	Hordeum vulgare	5 - 7	PC	
Volunteer oats	Avena sativa	5 - 7	PC	
Volunteer wheat	Triticum aestivum	5 - 7	PC	
Wild oats	Avena fatua	5 - 7	c	

¹Double incorporate to improve control.

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For band applications, calculate the amount to be applied per acre as follows:

TABLE 2

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

TANKMIX COMBINATIONS

BALANCE® HERBICIDE

See Balance label for Balance use rates. Not labeled in all states. Please refer to the Balance label for precautionary statements, directions for use, geographic and other restrictions. Refer to DOUBLEPLAY use rate section for minimum DOUBLEPLAY use rates.

ATRAZINE, BLADEX® AND EXTRAZINE® II HERBICIDE COMBINATIONS

For control of additional weeds and increased control of labelled broadleaf weeds, atrazine, or Bladex, or a combination of atrazine and Bladex may be tank mixed and applied preplant incorporated with recommended use rates of DOUBLEPLAY.

Do not apply atrazine, Bladex or Extrazine II through any irrigation system.

Atrazine, Bladex, or Extrazine II combinations may be impregnated on dry bulk fertilizer. See APPENDIX II and consult your local dealer for details including what fertilizers are compatible.

As an alternative, atrazine at recommended rates may be applied preemergence to the soil surface following a preplant incorporated treatment of DOUBLEPLAY at recommended rates.

If a preemergence application of atrazine is used, consult the directions on the atrazine label.

A preemergence application of atrazine may require a rotary hoeing or shallow cultivation if rainfall or sprinkler irrigation has not occurred within 10 days of the surface application.

With the combinations of atrazine and Bladex, the potential hazard of atrazine residues affecting certain crops the following year is reduced because a lower rate of atrazine can be used.

GENERAL USE PRECAUTIONS FOR ATRAZINE AND BLADEX

Follow all the use precautions and warnings that appear on the atrazine, Bladex and Extrazine II labels and supplemental literature.

Make only one application per crop.

Bladex is not recommended for use on sandy soils consisting of more that 70% sand and containing less than 1% organic matter. Consult the Bladex label for more specific recommended rates on sandy soils.

After a treatment of atrazine do not plant any crop except corn until the following year or injury may occur.

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CARRIERS:

Liquids: The tankmix combinations may be applied using the same liquid carriers as DOUBLEPLAY used alone. 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 the tankmix is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry bulk fertilizer: Tankmixes with atrazine and Bladex combinations may be impregnated on dry bulk fertilizer. Follow all directions and precautions listed on this label under DOUBLEPLAY applied alone on impregnated dry bulk fertilizer.

ADDING TO SPRAY TANK:

It is recommended that the compatibility of any tankmix combination be tested on a small scale, such as a jar test, before actual tank mixing. See Appendix I for details on the procedure for such a test.

Fill a thoroughly rinsed and decontaminated spray tank 2/3 full of clean water.

Start and continue moderate agitation throughout mixing. Excessive agitation may cause the Bladex or atrazine to settle out and set up in the spray tank.

All return lines to the spray tank must discharge below liquid level.

Mix and disperse wettable powders first, followed by flowable products and then DOUBLEPLAY.

For some combinations, premixing wettable powders in a little water in a pail or bucket before adding them to the spray tank will improve the compatibility of the final mixture.

Premix the Bladex or atrazine individually in proper order listed above making sure they are thoroughly wetted and dispersed in the tank before adding the DOUBLEPLAY.

Add the DOUBLEPLAY to the tank that is 2/3 full of water already mixed with the approved tankmix products and continue filling tank.

The tankmix combinations should not be left in the spray tank for prolonged periods. Batches should be mixed and applied the same day.

VOLUME:

Apply all tankmixes in 20 to 60 gallons of liquid per acre.

PRESSURE:

Use 20 to 40 psi to ensure good distribution in the spray pattern.

SOIL MOISTURE AND TILTH:

Same as for DOUBLEPLAY alone.

INCORPORATION TIMING:

Same as for DOUBLEPLAY alone.

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INCORPORATION EQUIPMENT AND METHODS:

Same as for DOUBLEPLAY alone.

Do not apply DOUBLEPLAY, atrazine, Bladex or Extrazine II through a center pivot sprinkler irrigation system.

PLANTING:

Same as for DOUBLEPLAY alone.

CULTIVATION:

Same as for DOUBLEPLAY alone.

Banvel®, 2,4-D and Other Herbicides:

A sequential application of 2,4-D, Banvel, Clarity®, Marksman®, Buctril®, BuctrillAtrazine, Basagran®, Laddock® or other preemergence or postemergence herbicides may be necessary to control weeds not controlled by DOUBLEPLAY.

WEEDS CONTROLLED AND USE RATES

TABLE 3 TANKMIXES WITH ATRAZINE AND/OR BLADEX

DOUBLEPLAY plus atrazine and DOUBLEPLAY plus Bladex tankmixes will control the additional weeds listed below and under unfavorable conditions, improve the control of broadleaf weeds listed in Table 1. Please refer to atrazine and/or Bladex labels for rates and weeds controlled.

		C = C PC = Parti	ontrol al Control
Additional Weeds Controlled with Tankmix Combinations	Scientific Name	Atrazine	Bladex
Cocklebur, common	Xanthium pensylvanicum	PC	PC
Jimsonweed	Datura stramonium	С	PC
Kochia	Kochia scoparia	С	С
Mustard	Brassica spp.	С	С
Ragweed	Ambrosia spp.	С	С
Smartweed	Polygonum spp.	С	С
Thistle, Russian ¹	Salsola kali	С	PC
Velvetleaf	Abutilon theophrasti	С	PC
Witchgrass	Panicum capillare	С	С

¹Controlled by DOUBLEPLAY and atrazine tankmix only.

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APPENDIX I

Procedure for Testing the Compatibility of DOUBLEPLAY with Fluid Fertilizers and Tankmix Combinations

The following procedure is suggested for determining whether or not DOUBLEPLAY may be combined with a specific fluid fertilizer or tankmix herbicide for spray tank application.

MATERIALS REQUIRED:

- 1. DOUBLEPLAY
- 2. Fluid fertilizer and tankmix herbicides
- 3. Adjuvant for spray tank mix combinations: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of DOUBLEPLAY. The adjuvant which provides the best emulsification depends on the specific herbicide under consideration.
- 4. Two one-quart, wide mouth glass jars with lid or stopper.
- 5. Measuring spoons. A 25 mL pipette or graduated cylinder provides more accurate measurement.
- 6. Measuring cup, 8 ounces (237 mL).

PROCEDURE:

Pour a pint or about 473 mL of the fluid fertilizer or water into each of the quart jars.

Add adjuvant to one of the jars and mix. Two mL or 2/5 of teaspoon of adjuvant added to 1 pint of fluid fertilizer or water will equal 3 pints of adjuvant per 100 gallons of fluid fertilizer or water.

If a tankmix is being tested, premix the wettable powders in 1/8 cup of water prior to addition to the pint of fluid fertilizer or water.

Add DOUBLEPLAY to both jars. See Table 4 for rate to use.

Close both jars with lid or stopper and mix the contents by turning the jars upside down ten times.

Inspect the surface and body of the mixtures:

- Immediately after completing the jar inversions.
- After allowing the jars to stand quietly for 30 minutes.
- And then again after turning the jars upside down 10 times after the 30 minute wait.

EVALUATION:

If a uniform mixture cannot be made, the mixture should not be used.

If either mixture remains uniform for 30 minutes, the combination may be used.

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Should either mixture separate after 30 minutes, but readily remixes uniformly with ten 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.

If adjuvant is needed, add it first at a rate of 3 pints per 100 gallons of fluid fertilizer or water.

Foaming can be minimized by using moderate agitation.

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

TABLE 4
Rate Table for DOUBLEPLAY in Compatibility Tests

Gallons of Fluid	Amou Adjuvant	to Add	mL or Teaspoon to be Added to 1 Pint of Liquid for the DOUBLEPLAY rate listed below								
Fertilizer to be Applied per Acre	to the 1 Pint of Liquid		4 Pints		5 Pints		6 Pints		7 Pints		
	mL Tsp		mL	Tsp	mL	Tsp	mL	Tsp	mL	Tsp	
10	2	2/5	22.0	4 - 2/5	28.0	5 - 3/5	35.0	7	42.0	8 - 2 <i>l</i> 5	
15	2	2/5	16.0	3 - 1/5	20,0	4	25.0	5	30.0	6	
20	_2	2/5	13.0	2 - 3/5	16.0	3 - 1/5	20.0	4	24.0	4 - 4/5	
25	2	2/5	9.0	1 - 4/5	12.0	2 - 2/5	15.0	3	18.0	3 - 3/5	
30	22	2/5	6.0	1 - 1/5	8.0	1 - 3/5	10.0	2	12.0	2 - 2/5	
40	2	2/5	6.0	1 - 1/5	8.0	1 - 3/5	10.0	2	12.0	2 - 2/5	

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APPENDIX II

Impregnation on Dry Bulk Fertilizers

Consult your local dealer for more details.

DOUBLEPLAY alone and tankmix combinations with atrazine and/or Bladex may be impregnated on dry bulk fertilizer.

CAUTION: DOUBLEPLAY alone and in combination tankmixes must not be impregnated on ammonium nitrate, potassium nitrate or sodium nitrate fertilizers. Such mixtures may cause explosion and fire.

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 herbicide and fertilizer mixtures.

TABLE 5
Approved Dry Bulk Fertilizer Ingredients for Use with
DOUBLEPLAY alone

Fertilizer Ingredient	N	Р	К
Ammonium sulfate	21	0	0
Diammonium phosphate	18	46	0
Potassium chloride) 0) o	60
Potassium sulfate	0	0	52
Single Super-phosphate	0	20	0
Treble Super-phosphate	0	46	0
Urea*	45	0	0 .
Ammonium phosphate-sulfate	16	20	0
K-Mag/Sul-Po-Mag	0	0	21
Monoammonium phosphate	11	48	0

^{*}Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

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TABLE 6
Approved Dry Bulk Fertilizer Ingredients for Use with DOUBLEPLAY in tankmix combinations with atrazine and/or Bladex

Fertilizer Ingredient	N	Р	К
Ammonium sulfate	21	0	0
Diammonium phosphate	18	46	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Single Super-phosphate	0	20	0
Treble Super-phosphate	0	46	0
Urea*	45	0	0
Ammonium phosphate-sulfate	16	20	0
K-Mag/Sul-Po-Mag	0	0	21
Monoammonium phosphate	11	48	0

^{*}Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

Do not combine DOUBLEPLAY plus atrazine 4L or 8OW or BLADEX 4L or 8OW with 0-20-0 or 0-46-0.

Uniform impregnation of the herbicides on dry bulk fertilizer particles and uniform application in the field are necessary to assure good results.

A minimum of 200 and a maximum of 1200 pounds of approved impregnated ingredients from Tables 5 and 6 must be applied per acre.

Use a closed rotary drum mixer or similar type of closed blender equipped with suitable spray equipment.

The spray nozzle should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer and provide a uniform fine spray pattern.

Tankmix combinations may be added separately or mixed in the proposed use ratio in a uniform slurry for joint spray impregnation.

Physical properties of fertilizers vary in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with the herbicides provides a satisfactory, dry mixture.

When the absorptive capacity is not adequate, use of a drying agent is required to provide dry, free-flowing mixtures.

Drying agent for spinning-disc applicators is:

Micro-Cel™ E calcium silicate powder

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Drying agents for pneumatic applicators are:

Micro-Cel E calcium silicate powder Agsorb™ 16/30 RVM-MS granular clay Celatom™ MP-79

Drying agents should be added separately and uniformly to the previously impregnated herbicide-fertilizer mixture to insure that the mixture is free-flowing. Generally the following amounts are sufficient:

Micro-Cel E calcium silicate powder Agsorb 16/30 RVM-MS granular clay Celatom MP-79 less than 2% by weight less than 5% by weight less than 5% by weight

The amount of DOUBLEPLAY, atrazine and/or Bladex actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation (see Tables 7 and 8). This is necessary to ensure that the amount of herbicide actually contained in the mixture applied to the soil represents the correct use rate.

PHYSICAL DATA

Specific Gravity: 0.99 at 68°F (20°C) Pounds/Gallon: 8.27 at 68°F (20°C)

Flashpoint:

>200°F

Viscosity:

Sprayable down to minus 20°F/-29°C

TABLE 7
RATE CHART FOR IMPREGNATION OF DRY BULK FERTILIZER WITH DOUBLEPLAY AND ATRAZINE AND BLADEX PER TON OF FERTILIZER.

 		DOUBLEPLAY			Atrazine Alone in Tankmix				Bladex Alone in Tankmix			
Fertilizer Rate	Rate per Acre			Rate of 4L per ace		Rate of 80W per acre		Rate of 4L per acre		Rate of 80W per acre		
Pounds Per Acre	4 pts	5 pts	6 pts	2 pts	3 pts	11/4 lbs	2 lbs	3 pts	4 pts	2 lbs	2-1/2 lbs	
200	20 qts	25 qts	30 qts	10 qts	15 qts	12-1/2 lbs	20 lbs	15 qts	20 qts	20 lbs	25 lbs	
300	13-1/3 qts	16-2/3 qts	20 qts	6-2/3 qts	10 qts	8-1/3 lbs	13-1/3 lbs	10 qts	13-1/3 qts	13-1/3 lbs	16-2/3 lbs	
400	10 qts	12-1/2 qts	15 qts	5 qts	7-1/2 qts	6-1/4 lbs	10 lbs	7-1/2 qts	10 qts	10 lbs	12-1/2 lbs	
500	8 qts	10 qts	12 qts	4 qts	6 qts	5 lbs	8 lbs	6 qts	8 qts	8 lbs	10 lbs	
600	6-2/3 qts	8-1/4 qts	10 qts	3-1/3 qts	5 qts	4-1/5 lbs	6-2/3 lbs	5 qts	6-2/3 gts	6-2/3 lbs	8-1/3 lbs	
700	5-3/4 qts	7-1/4 qts	8-1/2 qts	2-7/8 qts	4-1/4 qts	3-2/3 lbs	5-3/5 lbs	4-1/4 qts	5-3/4 gts	5-3/4 lbs	7-1/5 lbs	

TABLE 8
RATE CHART FOR IMPREGNATION OF DRY BULK FERTILIZER WITH DOUBLEPLAY AND ATRAZINE AND BLADEX PER TON OF FERTILIZER.

		DOUBLED! AV			Atrazine Rate for a 3-Way Tankmix				Bladex Rate for a 3-Way Tankmix			
Rate	ertilizer DOUBLEPLAY Rate Rate per Acre			Rate of 4	Rate of 4L per acre		Rate of 80W per acre		Rate of 4L per acre		W pet acre	
Pounds Per Acre	4 pts	5 pts	6 pts	1 pt	2 pts	3/4 lbs	11/4 lbs	2 pts	4 pts	11/4 lbs	2½ lbs	
200	20 qts	25 qts	30 qts	5 qts	10 qts	7-1/2 lbs	12-1/2 lbs	10 gts	20 gts	12-1/2 lbs	25 lbs	
300	13⅓ qts	16% ats	20 qts	3-1/3 qts	6-3/5 qts	5 lbs	8-1/3 lbs	6-3/4 qts	13-1/3 qts	8-1/3 lbs	16-2/3 lbs	
400	10 qts	12½ qts	15 qts	2-1/2 qts	5 qts	3-3/4 lbs	6-1/4 lbs	5 qts	10 qts	6-1/4 lbs	12-1/2 lbs	
500	8 qts	10 qts	12 qts	2 qts	4 qts	3 lbs	5 lbs	4 qts	8 qts	5 lbs	10 lbs	
600	6⅔ qts	81/4 qts	10 qts	1-2/3 qts	3-1/3 qts	2-1/2 lbs	4-1/5 lbs	3-1/3 qts	6-2/3 qts	4-1/5 lbs	8-1/3 lbs	
700	5¾ qts	71/4 qts	81/2 qts	1-1/2 qts	2-7/8 qts	2-1/5 lbs	3-2/3 lbs	2-7/8 qts	5-3/4 qts	3-2/3 lbs	7-1/5 lbs	

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