



Reg # 524-341

PM-25

Labeling

1/28

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DEC 22 1993

Dr. Russell P. Schneider
MONSANTO CO.
Agent for: MONSANTO AGRICULTURAL CO.
700 14th St., NW, Suite 1100
Washington, DC 20005

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 06/18/93 in Response to PR Notice 93-7
EPA Reg. No. 524-341
BRONCO

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



Recycled/Recyclable
Printed with Soy, Canola Ink on paper that
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
 Compliance Division, (7203)
 Worker Protection Notification
 Office of Compliance Monitoring
 U.S. Environmental Protection Agency
 401 M Street SW
 Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

AND

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

**Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001**

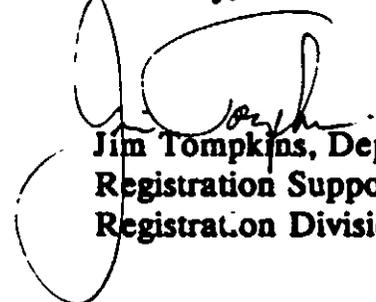
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Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

5/28

MONSANTO CO.
BRONCO

524-341

6/18/93

Original Submission

Under Precautionary Statement add the following to
"Applicators and other Handlers" "Dust/mist filtering respirator
(MSHA/NIOSH approval number prefix TC-21C)

DEC 22 1986

BRONCO®
Herbicide by Monsanto

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

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.

The use of this product may be hazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

In case of an emergency involving this product or for user safety information on this product, call collect, day or night (314) 694-4000.

SHAKE WELL BEFORE USING
Complete Directions for Use

AVOID CONTACT WITH DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

®Bronco is a registered trademark of Monsanto Company.

EPA Reg. No. 524-341

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017-37-000-40/53

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather

conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

PRECAUTIONARY STATEMENTS

**HAZARDS TO
HUMANS AND DOMESTIC ANIMALS**

Keep out of reach of children.

DANGER! [REDACTED]

- CAUSES EYE BURNS.
- HARMFUL IF SWALLOWED.
- MAY CAUSE RESPIRATORY TRACT IRRITATION.
- MAY CAUSE ALLERGIC SKIN REACTION.

Do not get in eyes, on skin, or on clothing.

Avoid breathing vapor or spray mist.

~~Wear goggles or face shield, rubber gloves, long trousers, long-sleeved shirt or jacket of tightly woven material along with boots high enough to cover ankles when transferring and mixing, and when adjusting, repairing or cleaning equipment. Wear rubber boots when pouring from open containers. Clothing which comes in contact with Bronco must be washed before reuse. Clothing or other materials which become drenched with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.~~

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~~Wash thoroughly with soap and water after handling.~~

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water while removing contaminated clothing. ~~As soon as soap is available, wash thoroughly with soap and water. Wash clothing before reuse.~~ Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

IF INHALED, remove to fresh air. Get medical attention if breathing difficulty develops.

IF SWALLOWED, do NOT induce vomiting. Give large quantities of water. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

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ENVIRONMENTAL HAZARDS

This chemical has been identified in limited ground water sampling and there is the possibility that it can leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application, and during rainfall events that cause runoff, this chemical may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticides, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures, or rinsate should be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

Do not apply directly to water, 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.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE.

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of:

FIRE, use water spray, foam, dry chemical or CO₂.

SPILL OR LEAK, soak up, remove and keep away from humans and domestic animals.

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS

STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENTS:

Alachlor * 27.6%

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**Glyphosate, N-phosphonomethyl)glycine, in the form of	
its isopropylamine salt	14.8%
INERT INGREDIENTS	<u>57.6%</u>
	100.0%

Contains petroleum distillates.

*Contains 2.6 pounds of 2-chloro-2'-6'diethyl-N-(methoxymethyl) acetanilide and 1.4 pounds** of glyphosate, in the form of its isopropylamine salt, per U.S. gallon. **Equivalent to 1.04 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

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

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

For more product information, call toll free 1-800-332-3111.

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Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed by storage or disposal.

STORAGE:

Store above 40°F. to keep product in solution.

Below 40°F. crystals may form and settle to the bottom. If crystals form, place in a warm room and shake the container frequently until crystals dissolve.

Keep container closed to prevent spills and contamination.

For bulk containers, see the container label for alternate storage information.

DISPOSAL:

Wastes of this pesticide may cause eye burns and skin irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label use instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

(See the individual container label for disposal information.)

GENERAL INFORMATION

This product, applied alone or in tank mixtures, is recommended for the preemergence and postemergence control of many annual grasses and broadleaf weeds in soybeans and corn grown under NO-TILL or other minimum tillage practices. This product will also provide reduced competition from certain emerged perennial weeds.

MOISTURE CONDITIONS

Rainfall or sprinkler irrigation within 6 hours after application may reduce control of emerged weeds.

Moisture in the form of rainfall or irrigation is required after application to move this product into the weed germination zone for preemergence weed control. The amount of moisture required depends on the soil moisture content at the time of application, soil type, and plant residues. Performance is improved when 1/3 to 3/4 inch of moisture is received within one week after application and prior to weed emergence. High intensity or

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excessive rainfall or irrigation after application may reduce preemergence weed control on coarse soils.

READ AND CAREFULLY OBSERVE PRECAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE LABELING OF ALL PRODUCTS USED IN MIXTURES.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS, TREES AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide can cause severe damage or destruction to crops, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.**

DO NOT MIX THIS PRODUCT WITH LIQUID FERTILIZERS, HERBICIDE OILS OR ANY MATERIALS OTHER THAN WATER, EXCEPT THOSE LISTED ON THIS LABEL.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.

DO NOT APPLY THIS PRODUCT TO EMERGED CORN OR SOYBEANS.

DO NOT FEED FORAGE FROM CORN OR GRAZE TREATED AREAS WITHIN 8 WEEKS AFTER APPLICATION. DO NOT FEED FORAGE, HAY OR STRAW FROM SOYBEANS TREATED WITH THIS PRODUCT OR TANK MIXTURES WITH THIS PRODUCT. DO NOT ENSILE SOYBEANS TREATED WITH THIS PRODUCT. DO NOT GRAZE OR HARVEST FORAGE FROM GRAIN SORGHUM (MILO) FOR 70 DAYS FOLLOWING APPLICATION OF THIS PRODUCT.

Flush sprayer with clean water after use.

SOIL TEXTURE

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil texture groups: **COARSE, MEDIUM and FINE.** The following is a complete listing of soil textures included in each of these three soil texture groups:

**SOIL TEXTURE
GROUP**

**SOIL
TEXTURE**

COARSE	sand, loamy sand, sandy loam
MEDIUM	loam, silt loam, silt, sandy clay loam
FINE	silty clay loam, clay loam, sandy clay, silty clay, clay

Refer to the above table to determine the corresponding soil texture group for the soil to be treated.

WEEDS CONTROLLED

When applied as directed under conditions described, this product alone or in tank mixtures with other products listed will control or reduce competition from the weeds indicated. Refer to the "DIRECTIONS FOR USE" section to determine rates for each crop.

Reduced control of emerged weeds may occur when weeds are under poor growing conditions such as from drought stress, when application follows recent mowing or when excessing amounts of dust cover the plants.

NOTE: For additional information on weeds controlled by this product applied alone or in tank mixtures with other products in DOUBLE CROP systems, consult the "Double Crop Systems" section of this label.

This product applied alone or in tank mixtures with other products listed will CONTROL the following EMERGED WEEDS:

ANNUAL GRASSES

Bluegrass, annual
Poa annua

Brome, downy
Bromus tectorum

Corn, volunteer
Zea mays

Crabgrass
Digitaria ischaemum
Digitaria sanguinalis

Foxtail, giant
Setaria faberi

Foxtail, green
Setaria viridis

Foxtail, yellow
Setaria lutescens

Panicum, fall*
Panicum
dichotomiflorum

Sandbur, field
Cenchrus spp.

Shattercane
Sorghum bicolor

Wheat, volunteer
Triticum aestivum

ANNUAL BROADLEAVES

Fleabane
Erigeron spp.

Kochia
Kochia scoparia

Lambsquarters
Chenopodium album

Lettuce, prickly
Lactuca serriola

Marestail, Horseweed
Conyza canadensis

**Pigweed; Carelessweed,
redroot**
Amaranthus retroflexus

Pigweed, smooth
Amaranthus hybridus

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Smartweed
Polygonum
pennsylvanicum

Sunflowers
Helianthus annuus

Thistle, Russian
Salsola kali

Velvetleaf, Buttonweed
Abutilon theophrasti

*Five (5) quarts of this product are required for satisfactory postemergence control of fall panicum.

This product applied alone or in tank mixtures with other products listed will REDUCE COMPETITION from the following EMERGED WEEDS:

PERENNIAL GRASSES

Bluegrass, Kentucky
Poa spp.

Bromegrass, smooth
Bromus inermis

Fescue
Festuca spp.

Muhly, wirestem
Muhlenbergia frondosa

Johnsongrass
Sorghum halepense

Orchardgrass
Dactylis glomerata

Quackgrass
Agropyron repens

Ryegrass, perennial
Lolium perenne

Timothy
Phleum pratense

PERENNIAL BROADLEAVES

Alfalfa
Medicago sativa

Clover, red
Trifolium pratense

Clover, white
Trifolium repens

Dock, curly
Rumex crispus

Milkweed
Asclepias spp.

Mullein, common
Verbascum thapsus

Smartweed, swamp

Polygonum coccineum

Thistle, Canada
Cirsium arvense

This product applied alone or in tank mixture with other products will provide PREEMERGENCE CONTROL of the following weeds:

ANNUAL GRASSES

Barnyardgrass
Echinochloa crus-galli

Crabgrass
Digitaria ischaemum
Digitaria sanguinalis

Foxtail, giant
Setaria faberi

Foxtail, green
Setaria viridis

Foxtail, yellow
Setaria lutescens

Goosegrass
Elusine indica

Panicum, fall
Panicum
dichotomiflorum

Signalgrass, broadleaf
Brachiaria spp.

Witchgrass
Panicum capillare

ANNUAL BROADLEAVES

When applied as directed under conditions described, Bronco alone or in tank mixtures with products listed in the following table will provide preemergence control or reduced competition from the additional grass and broadleaf weeds as indicated. Refer to the crop on which treatment is intended in the "DIRECTIONS FOR USE" section of this label to determine the rate of Bronco alone and of tank mixtures recommended for use in each crop.

- 1 Bronco®
- 2 atrazine
- 3 Bladex™
- 4 Lorox™
- 5 Princep™
- 6 Sencor™/Lexone™

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NOTE: C = Control

R = Reduced Competition

	TANK MIXTURES					
	1	2	3	4	5	6
Carpetweed <i>Mollugo verticillata</i>	C	C	C	C	C	C
Cocklebur <i>Xanthium</i> <i>pensylvanicum</i>		R	R	R	R	R
Jimsonweed <i>Datura stramonium</i>		C	R	R	R	R
Kochia <i>Kochia scoparia</i>		C				
Lambsquarters <i>Chenopodium album</i>	R	C	C	C	C	C
Morningglory, annual <i>Ipomeoea purpurea</i>		R	R	R	R	R
Mustard <i>Brassica spp.</i>		C	C	C	C	C
Nightshade, black <i>Solanum nigrum</i>	C*	C	C	C	C	C*
Nightshade, hairy <i>Solanum sarrachoides</i>	C*	C	C	C	C	C*
Pigweed; Carelessweed, redroot <i>Amaranthus retroflexus</i>	C	C	C	C	C	C
Pigweed, smooth <i>Amaranthus hybridus</i>	C	C	C	C	C	C
Purslane <i>Portulaca oleracea</i>	C	C	C	C	C	C
Pusley, Florida <i>Richardia scabra</i>	C	C	C	C	C	C
Ragweed, common <i>Ambrosia artemisiifolia</i>	R	C	C	C	C	C
Ragweed, giant <i>Ambrosia trifida</i>		C	R	R	R	R
Sandbur, field <i>Cenchrus spp.</i>		C				

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Sida, prickly, teaweed <i>Sida spinosa</i>	R	C	C	C	C	C
Smartweed <i>Polygonum pensylvanicum</i>						
<i>Polygonum persicaria</i>	R	C	C	C	C	C
Velvetleaf, Buttonweed <i>Abutilon theophrasti</i>		R	R	R	R	R

***Use the maximum labeled rates to achieve control.**

™Bladex, ™Lorox and ™Lexone are trademarks of E.I. du Pont de Nemours and Company.

™Princep is a registered trademark of the Ciba-Geigy Corporation.

™Sencor is a trademark of the parent company of Farbenfabriken Bayer GmbH, Leverkusen.

REFER TO SPECIFIC PRODUCT LABELS FOR ADDITIONAL WEEDS CONTROLLED, CROP ROTATION RESTRICTIONS AND CAUTIONARY STATEMENTS.

APPLICATION INFORMATION

SHAKE CONTAINER VIGOROUSLY PRIOR TO MIXING AND USE.

Do not apply this product through any type of irrigation system.

Broadcast Treatment Apply this product and labeled tank mixture products in 10 to 30 gallons of water, or 10 to 50 gallons of liquid nitrogen (28 percent or 32 percent solutions only) per acre, before, during or after planting, but **PRIOR TO CROP EMERGENCE**. Application of this product in fluid fertilizer should only be used for treatment of annual weeds less than 6 inches tall. Spray coverage should be uniform and complete. Under conditions of dense stubble or plant residue or very high weed populations, higher rates within the recommended ranges may be needed for best results.

DO NOT APPLY BY AIR.

MIX ONLY WITH CLEAN WATER.

Ammonium Sulfate The addition of ammonium sulfate in the spray solution may increase the performance of Bronco and Bronco tank mixtures on emerged annual weeds under adverse growing conditions. When using ammonium sulfate, add 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water. Ammonium sulfate should be added to the water in the spray tank and completely dissolved prior to adding herbicide or surfactant. Do not mix ammonium sulfate in fluid fertilizer solutions.

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If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Nozzle tip plugging may result from the use of low-quality ammonium sulfate. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, pre-dissolve the ammonium sulfate in water and filter prior to addition to the spray tank.

Following use of ammonium sulfate, thoroughly rinse the spray system with clean water to reduce corrosion.

Tank mixtures of this product with ammonium sulfate are not approved in the state of California.

Surfactants Nonionic surfactants which are labeled for use with herbicides may be used with Bronco. Do not reduce rates of Bronco when adding surfactant. Use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient, or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

MIXING, SPRAYING AND HANDLING INSTRUCTIONS

NOTE

The use of a mechanical transfer system is required to be used by all mixer/loaders and/or applicators who treat 300 acres or more annually with pesticides containing alachlor as an active ingredient.

Direct contact or exposure to Bronco or spray mixtures of Bronco should be minimized. The following instructions for transfer, mixing, cleaning or repairing equipment should be followed in order to minimize this exposure. Review the protective clothing requirements as listed in the Precautionary Statements section of this label (front panel) and do not use this product until you have the necessary protection clothing.

2.5 Gallon Containers

Open pouring from these containers can result in exposure from splashing or spilling. Special care in lifting and pouring are strongly recommended.

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Bulk Containers

Open pouring from these containers can result in exposure from splashing or spilling and is not recommended. This product should be transferred from these containers to the mix or spray tank using pumps or transfer probes. The probe or pump should not be removed from the container or disconnected until the container is emptied and rinsed. Use the pump or probe system to rinse the empty container and transfer the rinsate directly to the mix or spray tank.

Equipment Cleaning & Repair

Cleaning and repair of transfer systems and application equipment is a source of exposure to this product. Care should be taken to minimize exposure during cleaning and repair of transfer systems and application equipment. Whenever possible, these systems or equipment should be rinsed before being cleaned or repaired. When repairs must be made during transfer or application, the equipment should be shutdown, and special care taken to avoid contact with the pesticide.

Always predetermine the compatibility of Bronco with other labeled herbicides by mixing small proportional quantities in advance. NOTE: Reduced results may occur if muddy water is used, such as water from ponds or ditches.

Mix this product or labeled tank mixtures with clean water as follows:

1. Place a 20 to 35-mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water.
3. Add-tank mix components. If a wettable powder is used, make a slurry with water, and add it SLOWLY through the screen into the tank. Continue agitation.

If flowable herbicides are used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank.

4. Premix one part of Bronco with one part water. Add diluted mixture SLOWLY through the screen into the tank.
5. Complete filling the sprayer tank with water. Remove hose from tank immediately to avoid siphoning back into the water source. Maintain good agitation at all times until the contents of the tank are sprayed.

NOTE: If spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzle

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or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. For best results with ground application equipment, use flat fan or whirl-chamber nozzle. To reduce loss of chemical due to drift of a fine mist, apply at pressures less than 40 psi.

**No-Till and Minimum Tillage Systems
CORN, SOYBEANS AND
GRAIN SORGHUM (MILO)**

When applied as directed under the conditions described, this product or labeled tank mixtures will control many emerged annual weeds, suppress many emerged perennial weeds and give preemergence control of many annual weeds when corn, soybeans or grain sorghum will be planted directly into a cover crop, or in previous crop residues. This product or labeled tank mixtures will not control regrowth from perennial weeds or unemerged perennial weeds.

For use on grain sorghum, apply Bronco only on fields where the grain sorghum seed has been properly treated with a seed protectant containing the active ingredient, flurazole.

For mixing instructions, see the "MIXING AND SPRAYING INSTRUCTIONS" section of this label.

The higher recommended rates listed for each soil texture grouping should be used when:

PREVIOUS CROP RESIDUES ARE EXTREMELY DENSE

EMERGED WEEDS ARE OVER 6 INCHES TALL

HEAVY INFESTATIONS OF ANNUAL GRASSES OR BROADLEAVES ARE EXPECTED

SOILS CONTAIN MORE THAN 3 PERCENT ORGANIC MATTER

For postemergence weed control in double crop systems, small grain stubble should be cut to a height of 10 to 12 inches, leaving enough weed leaf surface for adequate herbicide coverage and uptake. Consult the "Double Crop Systems" section of this label for additional information and specific use rates.

BRONCO USE RATES

The following table provides the recommended rates for this product in no-till and minimum tillage systems in CORN, SOYBEANS and GRAIN SORGHUM. For recommended Bronco rates on medium and fine textured soils in DOUBLE CROP Systems, consult the "Double Crop Systems" section of this label. When making applications on corn or grain sorghum do not make more than two applications per year. Do not exceed a total of 6 pounds alachlor per acre per

year on corn or 4 pounds alachlor per acre per year on grain sorghum (milo). Do not exceed 3 pounds alachlor (4.5 quarts Bronco) per acre per year on soybeans.

SOIL TEXTURE GROUP	BROADCAST RATE OF BRONCO® (QTS./A.)
Coarse	3 to 5
Medium	4 to 5
Fine	4 to 5

**Double Crop Systems
SOYBEANS AND GRAIN SORGHUM (Milo)**

Bronco or Bronco plus a labeled tank mixture will control the weed species listed below in medium and fine texture soils at the 3 to 5 quart per acre rate. For additional information for weeds controlled on coarse textured soils, consult the "WEEDS CONTROLLED" section of this label.

ANNUAL GRASSES	ANNUAL BROADLEAVES*
Bluegrass, annual	Lambsquarters
Brome, downy	Marestail**
Corn, volunteer	Pigweed, redroot
Crabgrass	Pigweed, smooth
Foxtail, giant	Ragweed, common
Foxtail, green	
Foxtail, yellow	
Wheat, volunteer	

* A tank mixture of Bronco plus Lorox or Lexone or Sencor is recommended to improve control of emerged labeled weeds in double crop soybeans. Tank mixtures of Bronco plus atrazine are recommended to improve weed control in double crop grain sorghum. Consult the soybean and grain sorghum tank mixture sections of this label for recommended rates.

** A Bronco rate of 3 quarts per acre plus tank mixture with Lorox or Lexone or Sencor will control light infestations of this broadleaf weed. When medium to heavy infestations exist, use the 4 to 4.5 quart per acre rate of Bronco alone or in tank mixture with Lorox or Lexone or Sencor. Consult the tank mixtures section of this label for recommended use rates.

When using the 3 quart per acre rate of Bronco or Bronco tank mixtures, flat fan nozzles or low volume flood jet nozzles and application volumes of 20 gallons per acre or less are recommended for optimum performance. Refer to the "GENERAL INFORMATION" section of this label for additional information.

The higher Bronco rates (4 to 5 quarts per acre on grain sorghum and 4 to 4.5 quarts per acre on soybeans) should be used in double crop systems when:

Weeds not listed under Double Crop Systems are present.
 (Note: A 5 quart per acre Bronco rate must be used to control emerged fall panicum.)

Weeds are drought stressed.

Heavy infestations of annual grasses or broadleaves are present.

■ Tank Mixtures ■
 ■ BRONCO® plus ROUNDUP® and/or LASSO® ■

In cases of heavy weed infestation or hard-to-control weed species found on this label, Roundup OR Lasso herbicides OR both can be added to the recommended treatment rates to obtain improved control under the following methods of application:

Postemergence	Roundup
Preemergence	Lasso
Postemergence and Preemergence	Roundup and Lasso

Refer to the respective label booklets for Roundup and Lasso for specific recommendations regarding the timing of application.

The following table shows the maximum amounts of Roundup OR Lasso herbicides, OR both, that can be added to specific treatment rates of Bronco.

RECOMMENDED TANK MIXTURE RATES (QTS./A.)

<u>BRONCO®</u>	<u>ROUNDUP®</u>	and/or	<u>LASSO®</u>
3	2		2.2
3.5	1.8		1.7
4	1.6		1.4
4.5	1.4		1.1
5	1.25		0.75

● Roundup and ● Lasso are registered trademarks of Monsanto Company.

■ Tank Mixtures ■
 ■ CORN ■
 ■ BRONCO® plus ATRAZINE ■
 OR ■

24 9 28

■ **BRONCO plus BLADEx** ■
 OR
 ■ **BRONCO plus PRINCEP** ■

Apply Bronco alone or in tank mixture with atrazine, OR Bladex OR Princep herbicides for control of grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label when CORN is planted directly into a cover crop or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following table for recommended rates of atrazine, OR Bladex OR Princep in this tank mixture applied on various soil types. To determine the recommended rates for Bronco refer to the rate table for this product.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A)**

SOIL TEXTURE GROUP*	ATRAZINE 4L	BLADEx 4L	PRINCEP 4L
Coarse Sandy Loam Only	1 to 1.2	1 to 1.6	1 to 1.2
Medium	1.2 to 1.6	1.2 to 1.6	1.2 to 1.6
Fine	1.6 to 2	1.6 to 2.2	1.6 to 2

* Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil texture group for the soil to be treated.

** When using 4L formulations use the rates listed.

Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of these products equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L or Princep 4L equals 1.1 pounds of the 90 percent dry flowable formulations of these products.

Use the higher rates when recommended for each product listed when soils contain more than 3 percent organic matter.

- Tank Mixtures ■
- CORN ■
- BRONCO® plus ATRAZINE plus PRINCEP ■
- OR ■
- BRONCO® plus ATRAZINE plus BLADEX ■

For additional preemergence control of heavy weed infestation and/or hard-to-control weeds, a three-way tank mixture of Bronco herbicide plus atrazine plus Princep OR Bronco plus atrazine plus Bladex may be applied. Refer to the following rate tables and the rate table for Bronco to determine the recommended rates for these tank mixtures on various soil types.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A.)**

SOIL TEXTURE GROUP*	ATRAZINE 4L	+	PRINCEP 4L
COURSE	0.75 to 1		0.75 to 1
Medium	1 to 1.25		1 to 1.5
Fine	1 to 1.25		1 to 1.5

SOIL TEXTURE GROUP*	ATRAZINE 4L	+	BLADEX 4L
Coarse	0.75 to 1		1 to 1.25
Medium	1 to 1.25		1.25 to 2
Fine	1 to 1.25		1.25 to 2

* Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil texture group for the soil to be treated.

** When using 4L formulations use the rates listed.

- Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of these products equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L or Princep 4L equals 1.1 pounds of the 90 percent dry flowable formulations of these products.

- USE THE LOWER RATES RECOMMENDED FOR EACH PRODUCT LISTED WHEN SOILS CONTAIN LESS THAN 3 PERCENT ORGANIC MATTER.

NOTE: PLANT ONLY CORN, PEANUTS, SORGHUM OR SOYBEANS* the year following use of this mixture.

* There is a possibility of crop injury due to carryover of atrazine if soybeans are planted the following year. DO NOT plant soybeans the year following use of these tank mixtures on furrow irrigated corn.

NOTE: Land treated with Princep should not be planted to any crop except corn for one year following treatment as crop injury may occur.

- Tank Mixtures ■
- FULL SEASON AND DOUBLE CROP ■
- SOYBEANS ■
- BRONCO® plus LOROX ■
- OR ■
- BRONCO plus LEXONE OR SENCOR ■

Apply Bronco herbicide alone or in tank mixtures with Lorox, OR Lexone, OR Sencor herbicides for control of grasses and broadleaf weeds listed in the 'WEEDS CONTROLLED' section of this label when SOYBEANS are planted directly into a cover crop, stale seedbed, or in previous residues such as wheat stubble.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following table for recommended rates of Lorox, OR Lexone OR Sencor in tank mixtures applied on various soil types. To determine rates for Bronco refer to the rate table for this product.

BROADCAST RATES (QTS./A)

SOIL TEXTURE GROUP*	LOROX L**	LEXONE 4L OR SENCOR 4F
Coarse Sandy		
Loan Only	0.5 to 0.75	0.25 to 0.375
Medium	0.75 to 1	0.375 to 0.5
Fine	1 to 1.5	0.5 to 0.75

* Refer to the 'SOIL TEXTURE' section of this label to determine the corresponding soil texture group for the soil to be treated.

** Use the higher rate of Lorox L in the recommended ranges on soils containing more than 3 percent organic matter.

Use rates listed in this label when using Lorox L, Lexone 4L or Sencor 4F. Use equivalent rates when using the 50 WP or DF formulations of these products. One pint of Lorox L, Lexone 4L or Sencor 4F equals 1 pound of the corresponding 50 WP formulation or 2/3 pound of the corresponding DF formulation.

THE FOLLOWING INFORMATION APPLIES ONLY TO USE OF LEXONE OR SENCOR.

On the silty clay or heavy clay soils of the Mississippi Delta, use 0.75 to 1 quart of Lexone or Sencor per acre.

Use the higher rate of Lexone or Sencor in the recommended ranges on soils with greater than 2 percent organic matter.

Do not use on muck soils.

Do not apply on alkaline soils with a pH higher than 7.4.

Crop injury may occur if any atrazine was applied on the soil the year before use of this Lexone or Sencor tank mixtures.

DO NOT REPLANT CROPS OTHER THAN SOYBEANS FOR 120 DAYS AFTER APPLICATION.

■ **Tank Mixtures** ■
FULL SEASON AND DOUBLE CROP
GRAIN SORGHUM (Nilo)
■ **BRONCO® plus ATRAZINE** ■

Apply Bronco alone or in tank mixture with atrazine herbicide for control of grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label when grain sorghum is planted directly into a cover crop or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following for recommended rates of atrazine in this tank mixture applied on various soil types. To determine rates for Bronco refer to the rate table for this product.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A)

SOIL TEXTURE GROUP*	ATRAZINE 4L
Coarse (Except Sand)	0.75 to 1
Medium	1 to 1.25
Fine	1.2 to 1.5

* Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil texture group for the soil to be treated.

** When using 4L formulations use the rates listed.

Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of this product equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L equals 1.1 pounds of the 90 percent dry flowable formulation of this product.

Use the higher rates when recommended for each product listed when soils contain more than 3 percent organic matter.

EPA Reg. No. 524-341

817.37-000.40/53

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In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

This product is protected by U.S. Patent No. 4,405,531. Other patents pending. No license is granted under any non-U.S. patent(s).

MONSANTO COMPANY
THE AGRICULTURAL GROUP
ST. LOUIS, MISSOURI 63167 U.S.A.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

PA 12/22/93 12/22/93 File

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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dr. Russell P. Schneider
MONSANTO CO.
Agent for: MONSANTO AGRICULTURAL CO.
700 14th St., NW, Suite 1100
Washington, DC 20005

Subject: Label Amendment Submission of 06/18/93 in Response to PR Notice 93-7
EPA Reg. No. 524-341
BRONCO

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.

108-7



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

Each notification must include the following information:

1. Registrant 's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

AND

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

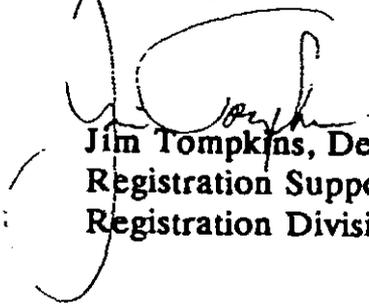
Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

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Page 4

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

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MONSANTO CO.
BRONCO

524-341

6/18/93

Original Submission

Under Precautionary Statement add the following to
"Applicators and other Handlers" "Dust/mist filtering respirator
(MSHA/NIOSH approval nuber prefix TC-21C)

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DEC 22 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

524-341

BRONCO®
Herbicide by Monsanto

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.

The use of this product may be hazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

In case of an emergency involving this product or for user safety information on this product, call collect, day or night (314) 694-4000.

**SHAKE WELL BEFORE USING
Complete Directions for Use**

AVOID CONTACT WITH DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

®Bronco is a registered trademark of Monsanto Company.

EPA Reg. No. 524-341

1992-1

~~817-37-000-40/53~~

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather

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conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children.

DANGER! PELIGRO!

~~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).~~

CAUSES EYE BURNS.

HARMFUL IF SWALLOWED.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Do not get in eyes, on skin, or on clothing.

Avoid breathing vapor or spray mist.

~~Wear goggles or face shield, rubber gloves, long trousers, long-sleeved shirt or jacket of tightly woven material along with boots high enough to cover ankles when transferring and mixing, and when adjusting, repairing or cleaning equipment. Wear rubber boots when pouring from open containers. Clothing which comes in contact with Bronco must be washed before reuse. Clothing or other materials which become drenched with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.~~

~~Wash thoroughly with soap and water after handling.~~

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water while removing contaminated clothing. ~~As soon as soap is available, wash thoroughly with soap and water. Wash clothing before reuse.~~ Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

IF INHALED, remove to fresh air. Get medical attention if breathing difficulty develops.

IF SWALLOWED, do NOT induce vomiting. Give large quantities of water. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Personal Protective Equipment

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instruction for category F 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, butyl rubber, nitrile rubber, neoprene rubber and viton; chemical-resistant footwear plus socks; and 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.

User Safety Recommendations

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if you have been exposed to this product. 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.

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

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ENVIRONMENTAL HAZARDS

This chemical has been identified in limited ground water sampling and there is the possibility that it can leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application, and during rainfall events that cause runoff, this chemical may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticides, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures, or rinsate should be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

Do not apply directly to water, 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.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE.

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of:

FIRE, use water spray, foam, dry chemical or CO₂.

SPILL OR LEAK, soak up, remove and keep away from humans and domestic animals.

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENTS:

Alachlor * 27.6%

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**Glyphosate, N-phosphonomethyl)glycine, in the form of its isopropylamine salt	14.8%
INERT INGREDIENTS	57.6%
	100.0%

Contains petroleum distillates.

*Contains 2.6 pounds of 2-chloro-2'-6'diethyl-N-(methoxymethyl) acetanilide and 1.4 pounds** of glyphosate, in the form of its isopropylamine salt, per U.S. gallon. **Equivalent to 1.04 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in any 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 of application. For any requirement 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 applied to a tree or shrub, the Worker Protection Standard under certain circumstances allows workers to enter the treated area if they will have no contact with anything that has been treated.

PPE required for entry into treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as soil, or entry into treated areas on a tree or shrub, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber and viton; chemical-resistant footwear plus socks; and protective eyewear.

For more product information, call toll free 1-800-332-3111.

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Storage and Disposal

Do not contaminate water, foodstuffs, seed or feed by storage or disposal.

STORAGE:

Store above 40°F. to keep product in solution.

Below 40°F. crystals may form and settle to the bottom. If crystals form, place in a warm room and shake the container frequently until crystals dissolve.

Keep container closed to prevent spills and contamination.

For bulk containers, see the container label for alternate storage information.

DISPOSAL:

Wastes of this pesticide may cause eye burns and skin irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label use instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

(See the individual container label for disposal information.)

GENERAL INFORMATION

This product, applied alone or in tank mixtures, is recommended for the preemergence and postemergence control of many annual grasses and broadleaf weeds in soybeans and corn grown under NO-TILL or other minimum tillage practices. This product will also provide reduced competition from certain emerged perennial weeds.

MOISTURE CONDITIONS

Rainfall or sprinkler irrigation within 6 hours after application may reduce control of emerged weeds.

Moisture in the form of rainfall or irrigation is required after application to move this product into the weed germination zone for preemergence weed control. The amount of moisture required depends on the soil moisture content at the time of application, soil type, and plant residues. Performance is improved when 1/3 to 3/4 inch of moisture is received within one week after application and prior to weed emergence. High intensity or

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excessive rainfall or irrigation after application may reduce preemergence weed control on coarse soils.

READ AND CAREFULLY OBSERVE PRECAUTIONARY STATEMENTS AND ALL OTHER INFORMATION APPEARING ON THE LABELING OF ALL PRODUCTS USED IN MIXTURES.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS, TREES AND CROPS.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide can cause severe damage or destruction to crops, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

DO NOT MIX THIS PRODUCT WITH LIQUID FERTILIZERS, HERBICIDE OILS OR ANY MATERIALS OTHER THAN WATER, EXCEPT THOSE LISTED ON THIS LABEL.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.

DO NOT APPLY THIS PRODUCT TO EMERGED CORN OR SOYBEANS.

DO NOT FEED FORAGE FROM CORN OR GRAZE TREATED AREAS WITHIN 8 WEEKS AFTER APPLICATION. DO NOT FEED FORAGE, HAY OR STRAW FROM SOYBEANS TREATED WITH THIS PRODUCT OR TANK MIXTURES WITH THIS PRODUCT. DO NOT ENSILE SOYBEANS TREATED WITH THIS PRODUCT. DO NOT GRAZE OR HARVEST FORAGE FROM GRAIN SORGHUM (MILO) FOR 70 DAYS FOLLOWING APPLICATION OF THIS PRODUCT.

Flush sprayer with clean water after use.

SOIL TEXTURE

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil texture groups: COARSE, MEDIUM and FINE. The following is a complete listing of soil textures included in each of these three soil texture groups:

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**SOIL TEXTURE
GROUP**

**SOIL
TEXTURE**

COARSE	sand, loamy sand, sandy loam
MEDIUM	loam, silt loam, silt, sandy clay loam
FINE	silty clay loam, clay loam, sandy clay, silty clay, clay

Refer to the above table to determine the corresponding soil texture group for the soil to be treated.

WEEDS CONTROLLED

When applied as directed under conditions described, this product alone or in tank mixtures with other products listed will control or reduce competition from the weeds indicated. Refer to the "DIRECTIONS FOR USE" section to determine rates for each crop.

Reduced control of emerged weeds may occur when weeds are under poor growing conditions such as from drought stress, when application follows recent mowing or when excessing amounts of dust cover the plants.

NOTE: For additional information on weeds controlled by this product applied alone or in tank mixtures with other products in DOUBLE CROP systems, consult the "Double Crop Systems" section of this label.

This product applied alone or in tank mixtures with other products listed will CONTROL the following EMERGED WEEDS:

ANNUAL GRASSES

Bluegrass, annual
Poa annua

Brome, downy
Bromus tectorum

Corn, volunteer
Zea mays

Crabgrass
Digitaria ischaemum
Digitaria sanguinalis

Foxtail, giant
Setaria faberi

Foxtail, green
Setaria viridis

Foxtail, yellow
Setaria lutescens

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Panicum, fall*
Panicum
dichotomiflorum

Sandbur, field
Cenchrus spp.

Shattercane
Sorghum bicolor

Wheat, volunteer
Triticum aestivum

ANNUAL BROADLEAVES

Fleabane
Erigeron spp.

Kochia
Kochia scoparia

Lambsquarters
Chenopodium album

Lettuce, prickly
Lactuca serriola

Marestail, Horseweed
Conyza canadensis

**Pigweed; Carelessweed,
redroot**
Amaranthus retroflexus

Pigweed, smooth
Amaranthus hybridus

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

Smartweed
Polygonum
pennsylvanicum

Sunflowers
Helianthus annuus

Thistle, Russian
Salsola kali

Velvetleaf, Buttonweed
Abutilon theophrasti

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*Five (5) quarts of this product are required for satisfactory postemergence control of fall panicum.

This product applied alone or in tank mixtures with other products listed will REDUCE COMPETITION from the following EMERGED WEEDS:

PERENNIAL GRASSES

Bluegrass, Kentucky
Poa spp.

Bromegrass, smooth
Bromus inermis

Fescue
Festuca spp.

Muhly, wirestem
Muhlenbergia frondosa

Johnsongrass
Sorghum halepense

Orchardgrass
Dactylis glomerata

Quackgrass
Agropyron repens

Ryegrass, perennial
Lolium perenne

Timothy
Phleum pratense

PERENNIAL BROADLEAVES

Alfalfa
Medicago sativa

Clover, red
Trifolium pratense

Clover, white
Trifolium repens

Dock, curly
Rumex crispus

Milkweed
Asclepias spp.

Mullein, common
Verbascum thapsus

Smartweed, swamp

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Polygonum coccineum

Thistle, Canada
Cirsium arvense

This product applied alone or in tank mixture with other products will provide PREEMERGENCE CONTROL of the following weeds:

ANNUAL GRASSES

Barnyardgrass
Echinochloa crus-galli

Crabgrass
Digitaria ischaemum
Digitaria sanguinalis

Foxtail, giant
Setaria faberi

Foxtail, green
Setaria viridis

Foxtail, yellow
Setaria lutescens

Goosegrass
Elusine indica

Panicum, fall
Panicum
dichotomiflorum

Signalgrass, broadleaf
Brachiaria spp.

Witchgrass
Panicum capillare

ANNUAL BROADLEAVES

When applied as directed under conditions described, Bronco alone or in tank mixtures with products listed in the following table will provide preemergence control or reduced competition from the additional grass and broadleaf weeds as indicated. Refer to the crop on which treatment is intended in the "DIRECTIONS FOR USE" section of this label to determine the rate of Bronco alone and of tank mixtures recommended for use in each crop.

- 1 Bronco®
- 2 atrazine
- 3 Bladex™
- 4 Lorox™
- 5 Princep™
- 6 Sencor™/Lexone™

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NOTE: C = Control

R = Reduced Competition

	TANK MIXTURES					
	1	2	3	4	5	6
Carpetweed <i>Mollugo verticillata</i>	C	C	C	C	C	C
Cocklebur <i>Xanthium</i> <i>pensylvanicum</i>		R	R	R	R	R
Jimsonweed <i>Datura stramonium</i>		C	R	R	R	R
Kochia <i>Kochia scoparia</i>		C				
Lambsquarters <i>Chenopodium album</i>	R	C	C	C	C	C
Morningglory, annual <i>Ipomeoea purpurea</i>		R	R	R	R	R
Mustard <i>Brassica spp.</i>		C	C	C	C	C
Nightshade, black <i>Solanum nigrum</i>	C*	C	C	C	C	C*
Nightshade, hairy <i>Solanum sarrachoides</i>	C*	C	C	C	C	C*
Pigweed; Carelessweed, redroot <i>Amaranthus retroflexus</i>	C	C	C	C	C	C
Pigweed, smooth <i>Amaranthus hybridus</i>	C	C	C	C	C	C
Purslane <i>Portulaca oleracea</i>	C	C	C	C	C	C
Pusley, Florida <i>Richardia scabra</i>	C	C	C	C	C	C
Ragweed, common <i>Ambrosia artemisiifolia</i>	R	C	C	C	C	C
Ragweed, giant <i>Ambrosia trifida</i>		C	R	R	R	R
Sandbur, field <i>Cenchrus spp.</i>		C				

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Sida, prickly, teaweed <i>Sida spinosa</i>	R	C	C	C	C	C
Smartweed <i>Polygonum pensylvanicum</i> <i>Polygonum persicaria</i>	R	C	C	C	C	C
Velvetleaf, Buttonweed <i>Abutilon theophrasti</i>		R	R	R	R	R

***Use the maximum labeled rates to achieve control.**

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TMPrincep is a registered trademark of the Ciba-Geigy Corporation.

TMSencor is a trademark of the parent company of Farbenfabriken Bayer GmbH, Leverkusen.

REFER TO SPECIFIC PRODUCT LABELS FOR ADDITIONAL WEEDS CONTROLLED, CROP ROTATION RESTRICTIONS AND CAUTIONARY STATEMENTS.

APPLICATION INFORMATION

SHAKE CONTAINER VIGOROUSLY PRIOR TO MIXING AND USE.

Do not apply this product through any type of irrigation system.

Broadcast Treatment Apply this product and labeled tank mixture products in 10 to 30 gallons of water, or 10 to 50 gallons of liquid nitrogen (28 percent or 32 percent solutions only) per acre, before, during or after planting, but **PRIOR TO CROP EMERGENCE**. Application of this product in fluid fertilizer should only be used for treatment of annual weeds less than 6 inches tall. Spray coverage should be uniform and complete. Under conditions of dense stubble or plant residue or very high weed populations, higher rates within the recommended ranges may be needed for best results.

DO NOT APPLY BY AIR.

MIX ONLY WITH CLEAN WATER.

Ammonium Sulfate The addition of ammonium sulfate in the spray solution may increase the performance of Bronco and Bronco tank mixtures on emerged annual weeds under adverse growing conditions. When using ammonium sulfate, add 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water. Ammonium sulfate should be added to the water in the spray tank and completely dissolved prior to adding herbicide or surfactant. Do not mix ammonium sulfate in fluid fertilizer solutions.

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If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Nozzle tip plugging may result from the use of low-quality ammonium sulfate. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, pre-dissolve the ammonium sulfate in water and filter prior to addition to the spray tank.

Following use of ammonium sulfate, thoroughly rinse the spray system with clean water to reduce corrosion.

Tank mixtures of this product with ammonium sulfate are not approved in the state of California.

Surfactants Nonionic surfactants which are labeled for use with herbicides may be used with Bronco. Do not reduce rates of Bronco when adding surfactant. Use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient, or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

**MIXING, SPRAYING AND
HANDLING INSTRUCTIONS**

NOTE

The use of a mechanical transfer system is required to be used by all mixer/loaders and/or applicators who treat 300 acres or more annually with pesticides containing alachlor as an active ingredient.

Direct contact or exposure to Bronco or spray mixtures of Bronco should be minimized. The following instructions for transfer, mixing, cleaning or repairing equipment should be followed in order to minimize this exposure. Review the protective clothing requirements as listed in the Precautionary Statements section of this label (front panel) and do not use this product until you have the necessary protection clothing.

2.5 Gallon Containers

Open pouring from these containers can result in exposure from splashing or spilling. Special care in lifting and pouring are strongly recommended.

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Bulk Containers

Open pouring from these containers can result in exposure from splashing or spilling and is not recommended. This product should be transferred from these containers to the mix or spray tank using pumps or transfer probes. The probe or pump should not be removed from the container or disconnected until the container is emptied and rinsed. Use the pump or probe system to rinse the empty container and transfer the rinsate directly to the mix or spray tank.

Equipment Cleaning & Repair

Cleaning and repair of transfer systems and application equipment is a source of exposure to this product. Care should be taken to minimize exposure during cleaning and repair of transfer systems and application equipment. Whenever possible, these systems or equipment should be rinsed before being cleaned or repaired. When repairs must be made during transfer or application, the equipment should be shutdown, and special care taken to avoid contact with the pesticide.

Always predetermine the compatibility of Bronco with other labeled herbicides by mixing small proportional quantities in advance. NOTE: Reduced results may occur if muddy water is used, such as water from ponds or ditches.

Mix this product or labeled tank mixtures with clean water as follows:

1. Place a 20 to 35-mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water.
3. Add tank mix components. If a wettable powder is used, make a slurry with water, and add it SLOWLY through the screen into the tank. Continue agitation.

If flowable herbicides are used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank.

4. Premix one part of Bronco with one part water. Add diluted mixture SLOWLY through the screen into the tank.
5. Complete filling the sprayer tank with water. Remove hose from tank immediately to avoid siphoning back into the water source. Maintain good agitation at all times until the contents of the tank are sprayed.

NOTE: If spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzle

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or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. For best results with ground application equipment, use flat fan or whirl-chamber nozzle. To reduce loss of chemical due to drift of a fine mist, apply at pressures less than 40 psi.

**No-Till and Minimum Tillage Systems
CORN, SOYBEANS AND
GRAIN SORGHUM (MILO)**

When applied as directed under the conditions described, this product or labeled tank mixtures will control many emerged annual weeds, suppress many emerged perennial weeds and give preemergence control of many annual weeds when corn, soybeans or grain sorghum will be planted directly into a cover crop, or in previous crop residues. This product or labeled tank mixtures will not control regrowth from perennial weeds or unemerged perennial weeds.

For use on grain sorghum, apply Bronco only on fields where the grain sorghum seed has been properly treated with a seed protectant containing the active ingredient, flurazole.

For mixing instructions, see the "MIXING AND SPRAYING INSTRUCTIONS" section of this label.

The higher recommended rates listed for each soil texture grouping should be used when:

PREVIOUS CROP RESIDUES ARE EXTREMELY DENSE

EMERGED WEEDS ARE OVER 6 INCHES TALL

HEAVY INFESTATIONS OF ANNUAL GRASSES OR BROADLEAVES ARE EXPECTED

SOILS CONTAIN MORE THAN 3 PERCENT ORGANIC MATTER

For postemergence weed control in double crop systems, small grain stubble should be cut to a height of 10 to 12 inches, leaving enough weed leaf surface for adequate herbicide coverage and uptake. Consult the "Double Crop Systems" section of this label for additional information and specific use rates.

BRONCO USE RATES

The following table provides the recommended rates for this product in no-till and minimum tillage systems in CORN, SOYBEANS and GRAIN SORGHUM. For recommended Bronco rates on medium and fine textured soils in DOUBLE CROP Systems, consult the "Double Crop Systems" section of this label. When making applications on corn or grain sorghum do not make more than two applications per year. Do not exceed a total of 6 pounds alachlor per acre per

year on corn or 4 pounds alachlor per acre per year on grain sorghum (milo). Do not exceed 3 pounds alachlor (4.5 quarts Bronco) per acre per year on soybeans.

SOIL TEXTURE GROUP	BROADCAST RATE OF BRONCO® (QTS./A.)
Coarse	3 to 5
Medium	4 to 5
Fine	4 to 5

**Double Crop Systems
SOYBEANS AND GRAIN SORGHUM (Milo)**

Bronco or Bronco plus a labeled tank mixture will control the weed species listed below in medium and fine texture soils at the 3 to 5 quart per acre rate. For additional information for weeds controlled on coarse textured soils, consult the "WEEDS CONTROLLED" section of this label.

ANNUAL GRASSES	ANNUAL BROADLEAVES*
Bluegrass, annual	Lambsquarters
Brome, downy	Marestail**
Corn, volunteer	Pigweed, redroot
Crabgrass	Pigweed, smooth
Foxtail, giant	Ragweed, common
Foxtail, green	
Foxtail, yellow	
Wheat, volunteer	

* A tank mixture of Bronco plus Lorox or Lexone or Sencor is recommended to improve control of emerged labeled weeds in double crop soybeans. Tank mixtures of Bronco plus atrazine are recommended to improve weed control in double crop grain sorghum. Consult the soybean and grain sorghum tank mixture sections of this label for recommended rates.

** A Bronco rate of 3 quarts per acre plus tank mixture with Lorox or Lexone or Sencor will control light infestations of this broadleaf weed. When medium to heavy infestations exist, use the 4 to 4.5 quart per acre rate of Bronco alone or in tank mixture with Lorox or Lexone or Sencor. Consult the tank mixtures section of this label for recommended use rates.

When using the 3 quart per acre rate of Bronco or Bronco tank mixtures, flat fan nozzles or low volume flood jet nozzles and application volumes of 20 gallons per acre or less are recommended for optimum performance. Refer to the "GENERAL INFORMATION" section of this label for additional information.

The higher Bronco rates (4 to 5 quarts per acre on grain sorghum and 4 to 4.5 quarts per acre on soybeans) should be used in double crop systems when:

Weeds not listed under Double Crop Systems are present.
(Note: A 5 quart per acre Bronco rate must be used to control emerged fall panicum.)

Weeds are drought stressed.

Heavy infestations of annual grasses or broadleaves are present.

■ Tank Mixtures ■

■ BRONCO® plus ROUNDUP® and/or LASSO® ■

In cases of heavy weed infestation or hard-to-control weed species found on this label, Roundup OR Lasso herbicides OR both can be added to the recommended treatment rates to obtain improved control under the following methods of application:

Postemergence	Roundup
Preemergence	Lasso
Postemergence and Preemergence	Roundup and Lasso

Refer to the respective label booklets for Roundup and Lasso for specific recommendations regarding the timing of application.

The following table shows the maximum amounts of Roundup OR Lasso herbicides, OR both, that can be added to specific treatment rates of Bronco.

RECOMMENDED TANK MIXTURE RATES (QTS./A.)

<u>BRONCO®</u>	<u>ROUNDUP®</u>	and/or	<u>LASSO®</u>
3	2		2.2
3.5	1.8		1.7
4	1.6		1.4
4.5	1.4		1.1
5	1.25		0.75

® Roundup and ® Lasso are registered trademarks of Monsanto Company.

■ Tank Mixtures ■

CORN

■ BRONCO® plus ATRAZINE ■
OR

■ **BRONCO plus BLADEX** ■
 OR
 ■ **BRONCO plus PRINCEP** ■

Apply Bronco alone or in tank mixture with atrazine, OR Bladex OR Princep herbicides for control of grasses and broadleaf weeds listed in the 'WEEDS CONTROLLED' section of this label when CORN is planted directly into a cover crop or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following table for recommended rates of atrazine, OR Bladex OR Princep in this tank mixture applied on various soil types. To determine the recommended rates for Bronco refer to the rate table for this product.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A)**

SOIL TEXTURE GROUP*	ATRAZINE 4L	BLADEX 4L	PRINCEP 4L
Coarse Sandy			
Loam Only	1 to 1.2	1 to 1.6	1 to 1.2
Medium	1.2 to 1.6	1.2 to 1.6	1.2 to 1.6
Fine	1.6 to 2	1.6 to 2.2	1.6 to 2

* Refer to the 'SOIL TEXTURE' section of this label to determine the corresponding soil texture group for the soil to be treated.

** When using 4L formulations use the rates listed.

Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of these products equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L or Princep 4L equals 1.1 pounds of the 90 percent dry flowable formulations of these products.

Use the higher rates when recommended for each product listed when soils contain more than 3 percent organic matter.

- Tank Mixtures ■
- CORN ■
- BRONCO® plus ATRAZINE plus PRINCEP ■
- OR ■
- BRONCO® plus ATRAZINE plus BLADEX ■

For additional preemergence control of heavy weed infestation and/or hard-to-control weeds, a three-way tank mixture of Bronco herbicide plus atrazine plus Princep OR Bronco plus atrazine plus Bladex may be applied. Refer to the following rate tables and the rate table for Bronco to determine the recommended rates for these tank mixtures on various soil types.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A.)**

SOIL TEXTURE GROUP*	ATRAZINE 4L	+	PRINCEP 4L
COURSE	0.75 to 1		0.75 to 1
Medium	1 to 1.25		1 to 1.5
Fine	1 to 1.25		1 to 1.5

	ATRAZINE 4L	+	BLADEX 4L
Coarse	0.75 to 1		1 to 1.25
Medium	1 to 1.25		1.25 to 2
Fine	1 to 1.25		1.25 to 2

- * Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil texture group for the soil to be treated.
- ** When using 4L formulations use the rates listed.
- Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of these products equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L or Princep 4L equals 1.1 pounds of the 90 percent dry flowable formulations of these products.
- USE THE LOWER RATES RECOMMENDED FOR EACH PRODUCT LISTED WHEN SOILS CONTAIN LESS THAN 3 PERCENT ORGANIC MATTER.

NOTE: PLANT ONLY CORN, PEANUTS, SORGHUM OR SOYBEANS* the year following use of this mixture.

* There is a possibility of crop injury due to carryover of atrazine if soybeans are planted the following year. DO NOT plant soybeans the year following use of these tank mixtures on furrow irrigated corn.

NOTE: Land treated with Princep should not be planted to any crop except corn for one year following treatment as crop injury may occur.

- Tank Mixtures ■
- FULL SEASON AND DOUBLE CROP
- SOYBEANS
- BRONCO® plus LOROX ■
- OR
- BRONCO plus LEXONE OR SENCOR ■

Apply Bronco herbicide alone or in tank mixtures with Lorox, OR Lexone, OR Sencor herbicides for control of grasses and broadleaf weeds listed in the 'WEEDS CONTROLLED' section of this label when SOYBEANS are planted directly into a cover crop, stale seedbed, or in previous residues such as wheat stubble.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following table for recommended rates of Lorox, OR Lexone OR Sencor in tank mixtures applied on various soil types. To determine rates for Bronco refer to the rate table for this product.

BROADCAST RATES (QTS./A)		
SOIL TEXTURE GROUP*	LOROX L**	LEXONE 4L OR SENCOR 4F
Coarse Sandy		
Loan Only	0.5 to 0.75	0.25 to 0.375
Medium	0.75 to 1	0.375 to 0.5
Fine	1 to 1.5	0.5 to 0.75

* Refer to the 'SOIL TEXTURE' section of this label to determine the corresponding soil texture group for the soil to be treated.

** Use the higher rate of Lorox L in the recommended ranges on soils containing more than 3 percent organic matter.

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Use rates listed in this label when using Lorox L, Lexone 4L or Sencor 4F. Use equivalent rates when using the 50 WP or DF formulations of these products. One pint of Lorox L, Lexone 4L or Sencor 4F equals 1 pound of the corresponding 50 WP formulation or 2/3 pound of the corresponding DF formulation.

THE FOLLOWING INFORMATION APPLIES ONLY TO USE OF LEXONE OR SENCOR.

On the silty clay or heavy clay soils of the Mississippi Delta, use 0.75 to 1 quart of Lexone or Sencor per acre.

Use the higher rate of Lexone or Sencor in the recommended ranges on soils with greater than 2 percent organic matter.

Do not use on muck soils.

Do not apply on alkaline soils with a pH higher than 7.4.

Crop injury may occur if any atrazine was applied on the soil the year before use of this Lexone or Sencor tank mixtures.

DO NOT REPLANT CROPS OTHER THAN SOYBEANS FOR 120 DAYS AFTER APPLICATION.

■ **Tank Mixtures** ■
FULL SEASON AND DOUBLE CROP
GRAIN SORGHUM (Milo)
■ **BRONCO® plus ATRAZINE** ■

Apply Bronco alone or in tank mixture with atrazine herbicide for control of grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label when grain sorghum is planted directly into a cover crop or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures.

See the following for recommended rates of atrazine in this tank mixture applied on various soil types. To determine rates for Bronco refer to the rate table for this product.

NOTE: The maximum application rate of atrazine is 2.5 pounds active ingredient per acre per calendar year. On highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate of atrazine is 1.6 pounds active ingredient per acre. On soils not highly erodible or on highly erodible soils with more than 30 percent plant residue cover the maximum rate of atrazine is 2 pounds active ingredient per acre.

BROADCAST RATES (QTS./A)

77'21

SOIL TEXTURE
GROUP*

ATRAZINE
4L

Coarse (Except Sand)	0.75 to 1
Medium	1 to 1.25
Fine	1.2 to 1.5

* Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil texture group for the soil to be treated.

** When using 4L formulations use the rates listed.

Use equivalent rates when using 80W or 90 percent dry flowable formulations. One quart of the 4L formulation of this product equals 1.25 pounds of the 80W formulation. One quart of atrazine 4L equals 1.1 pounds of the 90 percent dry flowable formulation of this product.

Use the higher rates when recommended for each product listed when soils contain more than 3 percent organic matter.

EPA Reg. No. 524-341

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In case of an emergency involving this product,
Call Collect, day or night, (314) 694-4000.

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