

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

DEC 2 1993

OFFICE OF PREVENTION PESTICIDES AND TOXIC SUBSTANCES

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Dr. Russell P. Schneider MONSANTO COMPANY AGENT FOR: MONSANTO AGRICULTURA CO. 700 14TH ST., N.W. SUITE 1100 WASHINGTON, D.C. 20005

Subject: Label Amendment Submission of 07/16/93 In Response to PR Notice 93-7 EPA Reg. No. 524-328 RAMROD AND ATRAZINE FLOWABLE HERBICIDE

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 reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (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 not been reviewed or 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:

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
AND

WITHIN one year from date of this acceptance.



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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

Hand or courier deliveries of final printed 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

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

Attachment

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RAMROD® and ATRAZINE Herbicide Mixture by Monsanto

Selective herbicide for preemergence weed control in grain sorghum (milo), field corn, hybrid seed corn and silage corn .

RESTRICTED USE PESTICIDE

(GROUND AND SURFACE WATER CONCERNS) FOR RETAIL SALE AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT IS A RESTRICTED USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS FROM THE USE OF ATRASINE. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRASINE TO REACH GROUND AND SURFACE WATER.

Complete Directions for Use SHAKE WELL BEFORE USING

•Ramrod is a registered trademark of Monsanto Company.

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PRECAUTIONARY STATEMENTS

MIXING AND SPRAYING INSTRUCTIONS

FLUID FERTILIZER COMPATIBILITY TEST

APPLICATION INFORMATION

CULTIVATION INFORMATION

WEEDS CONTROLLED

CROPS

> ACCEPTED with COMMENTS In EPA Letter Dated DEC 2 1993

Under the Pederal Insocialde, Fundicide, and Rodonicide Aff as amonded, for the positicide registered under RPA Reg. No. 524-335

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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.

REFORMULATION OR REPACKAGING IS PROHIBITED.

LINIT 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 OF 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, 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, crew 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

Ramrod/Atrazine FL Worker Protection 2

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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. WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF SWALLOWED CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

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

Users are required to wear long-sleeve shirts and long pants or equivalent, chemical resistant-gloves and boots (waterproofed). In addition, persons involved in mixing/loading operations are required to use heavy duty chemical resistent gloves or neoprene gloves and a face shield or goggles.

Avoid breathing vapor or spray mist.

Keep container closed.

Wash-thoroughly with soap and water-after handling.

Remove contaminated clothing and wash before reuser '

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 skin thoroughly with soap and water. Wash clothing before reuse. Get medical attention. Sensitized persons should avoid further contact and reuse of contamined clothing.

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

IF SWALLOWED, induce vomiting only as directed by medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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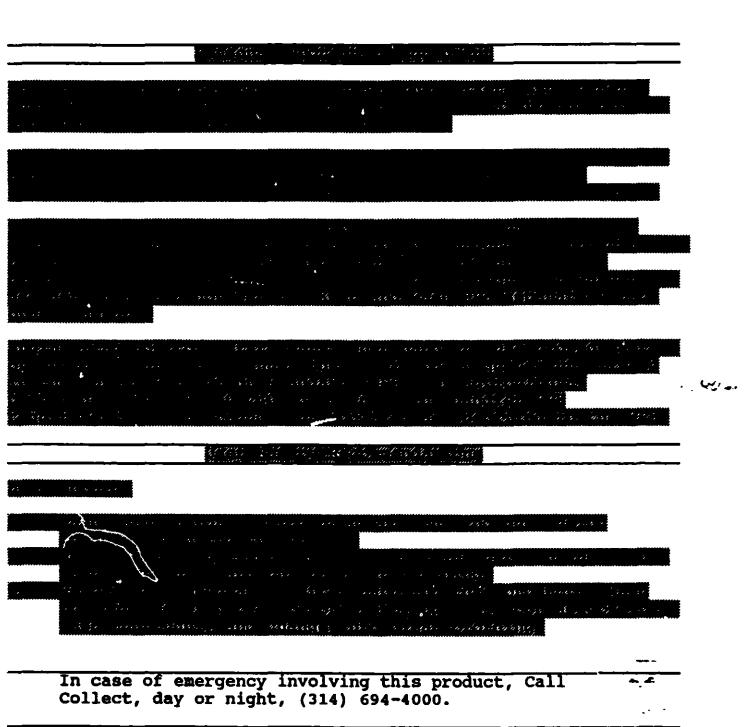
Ramrod/Atrazine FL Worker Protection

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ENVIRONMENTAL HAZARDS

There is the possibility that this chemical can leach through the soil to groundwater, especially where soils are coarse and groundwater is near the surface. Users are advised not to apply this product to sand and loamy sand soils where the water table (groundwater) is near the surface and where these soils are permeable (well drained).

Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

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This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or set-back from runoff points must be planted to a crop or seeded with grass or other suitable crop. Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

Care must be taken when using this product to prevent backsiphoning into wells, spills or improper disposal of excess pesticide, spray mixture or rinsates.

Following application, and during rainfall events that cause runoff, atrazine may reach surface water bodies, including streams, rivers and reservoirs.

This product is toxic to fish and wildlife. 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 apply where runoff is likely to occur. Do not apply when weather conditions are likely to cause drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwaters.

Apply this product only as specified on label.

PHYSICAL OR CHEMICAL HAZARDS	*. *
In case of: SPILL or LEAK, soak up, remove and keep away from human domestic animals.	s and
ACTIVE INGREDIENTS*:	
Propachlor, (2-chloro-N- isopropylacetanilide)	31.5%
Atrazine,[2-chloro-4-(ethylamino)- 6-(isopropylamino)-s-triazine]	10.0%
Related atrazine compounds	0.5%
INERT INGREDIENTS:	<u>58.0%</u> 100.0%

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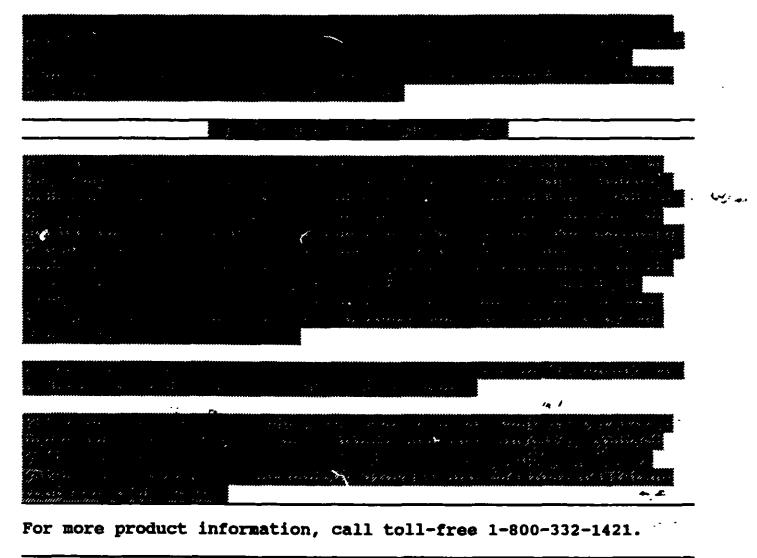
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*Contains 360 grams/liter or 3 pounds/gallon of propachlor and 120 grams/litre or 1 pound/gallon of atrazine and related atrazine compounds.

DIRECTIONS FOR USE

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



Storage and Disposal

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

S'CRAGE: S" DRE ABOVE 20°F AND BELOW 100°F TO KEEP PRODUCT IN SUSPENSION.

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Below 20°F the product may freeze. If frozen, mix well to resuspend when temperature is above 40°F.

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Above 100°F, the product may become thick and unsprayable.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable federal, state or local procedures.

(See the individual container label for disposal information.)

GENERAL INFORMATION

This herbicide mixture is recommended for control of many annual grasses and certain broadleaf weeds. For best results it should be applied to the soil surface before crop or weeds emerge. The seedbed should be fine, firm and free of clods and trash; application should be made within 5 days after the last tillage for weed control. Do not apply when conditions favop drift. Some moisture, either as rain or irrigation, is required soon after application to activate this herbicide mixture. On coarse texture soil 1/3 inch of rainfall, and on medium and fine textured and/or high organic soils 1/3 to 3/4 inch of rainfall is required depending upon original soil moisture. Better results are obtained when moisture occurs within 10 days after application. Generally, lower amounts of rainfall are required when soil moisture is high at time of planting.

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. Keep container closed to prevent spills and contamination.

Flush sprayer with clean water after use.

Do not use this product in fields where flood irrigation is to be practiced.

DO NOT apply in sprayable fluid fertilizer after crop emergence since crop injury may result.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

Do not graze or feed sorghum (milo) forage, silage or fodder (stubble) from treated fields to dairy animals.

CORN, SORGHUM OR SOYBEANS CAN BE PLANTED THE YEAR FOLLOWING THE USE OF THIS TANK MIXTURE. IF SOYBEANS OR OTHER NON- LABELED CROPS ARE PLANTED THE FOLLOWING YEAR, THERE IS THE POSSIBILITY OF CROP

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INJURY DUE TO CARRYOVER OF ATRAZINE.

Do not plant soybeans in areas where furrow irrigation is practiced.

In Texas, on grain sorghum, use only on the fine textured soils of the Gulf Coast.

Applications made to sorghum growing on alkali soils or where cuts, fills or erosions have exposed calcareous or alkali subsoils may result in crop injury.

SOIL TEITURE

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 textural groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil textural groups.

SOIL TEXTURAL GROUP	SOIL TEXTURE		
COARSE:	sand, loamy sand, sandy loam '''		
MEDIUM: BEST AVAILABLE COPY	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 textural group for the soil to be treated.

NIXING AND SPRAYING INSTRUCTIONS

Always predetermine the compatibility of this product with water carrier or sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. See the "Standard Sprayable Fluid Fertilizer Compatibility Test" section on this label.

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Mix this product or its labeled tank mix with the appropriate carrier as follows:

- 1. Place a 20 to 35 mesh screen or wetting basket over the filling port.
- 2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.
- 3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add it to the carrier already in the tank. Use only compatibility agents, cleared by the Federal Food and Drug Administration for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent. Check for adequate agitation.
- 4. Add the required amount of this product. Continue agitation.
- 5. Complete filling the sprayer tank with carrier, Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. Maintain good agitation at all times until the contents of the tank are sprayed, otherwise, settling which can lead to clogging may occur. Close tank valves and drain all lines when spraying is delayed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results, use flat fan or flood jet nozzle. Check for even distribution of spray droplets. To reduce aloss of the chemical due to drift of a fine mist, apply at pressures less than 40 psi.

STANDARD SPRAYABLE FLUID FERTILIZER CONPATIBILITY TEST

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to provide compatibility potential.

A. Materials Required For A Compatibility Test

1. Two 1 quart jars with lid or stopper (marked ''with'' and ''without'').

2. TEAspoons (for a more exacting test, a 5 to 10 milliliter

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(ml) pipette or graduated cylinder is desirable).

- 3. A minimum of 1 quart of the sprayable fluid fertilizer to be tested.
- 4. The herbicide(s) to be mixed.
- 5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and herbicide(s) in suspension, if this assistance is needed).
- B. Procedure
- Add 1 pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked "with" and "without".

Add 1 Pint Liquid Fertilizer To 2 Quart Jars.

WITH

WITHOUT

2. To the jar marked ''with'', add 1/4 TEAspoon or 1.2 milliliters of a suitable compatibility agent; shake gently for 5 to 10 seconds to mix. (1/4 TEAspoon is the equivalent of 2 pints per 100 gallons of liquid fertilizer.)

> To Jar Marked ''With'' Add Compatibility Agent And Shake to Mix.

WITH

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WITHOUT

3. To each jar add the appropriate amount of this, product. Shake gently for 5 to 10 seconds.

> Add Herbicide(s) To Both Jars And Shake to Mix.

WITH

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Amount to Be Added Per Pint Of Sprayable Fluid Fertilizer (Assuming Volume is 25 gal/A)

HERBICIDE	RATE/A	Level TEAspoons Millilite	
This Product	3.5 gts. = 4 gts. =		16.6 19.0

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4.5 qts.	=	4.3	or 21.4
5 qts.	-	4.8	or 23.8
5.5 qts.	-	5.3	or 26.2

This compatil lity test is designed for 25 gallons of spray per acre with the maximum labeled rate of herbicide. For changes in spray volume or herbicide concentration, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to 2 or 3 pints (2 pints = 1/4 TEAspoon or 1.2 milliliters, 3 pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

C. Observations and Decisions

- 1. If the herbicide(s) and the sprayable fluid fertilizer are comparible.
- 2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small oily particles in the solution.

If incompatibility in any form described above occurs in the jar "with" the compatibility agent added, the liquid fertilizer and the herbicide(s) should not be used together in the same spray tank.

If incompatibility as described above occurs in the jar. ''without'' the adjuvant but not in the jar ''with'' adjuvant, the use of a compatibility adjuvant is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. Wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If this product is compatible with fluid fertilizer in the foregoing test without having to use a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible the herbicide(s) should be premixed with water before adding to the spray tank.

APPLICATION INFORMATION

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

Ground Broadcast Treatment - Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer as specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply during periods of gusty winds, when winds are in excess of 15 mph or when other conditions favoring drift exist.

Band Treatment - Apply a broadcast equivalent rate and volume per acre. To determine these:

Band width <u>in inches</u> Row width in inches	x	Broadcast RATE per acre	=	Band RATE per acre	لىن <u>.</u>
Band width <u>in inches</u> Row width in inches	x	Broadcast VOLUME per acre	- 4 0	Band VOLUME per acre	

Mount spray equipment on the planter with nozzles behind press wheel and apply this product at planting time.

NOTE: For band application nozzle placement, refer to the nozzle manufacturer's specification as a guide for determining proper nozzle height.

APPLICATION TIMING AND METHODS

Preemergence Surface Application - This product and all labeled tank mixtures may be applied to the soil surface after planting and prior to either crop or weed emergence, apply within 5 days of last preplant tillage. If weeds emerge after last preplant tillage, rotary hoe or shallowly cultivate immediately to improve performance. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide treatment into the weed germination zone. The amount of precipitation or overhead sprinkler irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. Performance is improved when moisture is received within 7 days after application and prior to weed emergence. High intensity or excessive rainfall or excessive irrigation after application may reduce control.

Cultivation Information - Delay cultivation after application for

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as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. If a band application is used and weeds have emerged in the treated band, set cultivator to throw soil into the row covering the band.

WEEDS CONTROLLED

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

When applied as directed, under the conditions described, this product CONTROLS the following weeds.

Barnyardgrass, Watergrass Echinochloa crus-galli Buckwheat, wild Polygonum convolvulus Carpetweed Mollugo verticillata Crabgrass Digitaria spp. **Fortail**, giant Setaria faberi Fortail, green Setaria viridis Foxtail, yellow Setaria lutescens Goosegrass Eleusine indica Groundsel Senecio vulgaris Kochia Kochia scoparia Lambsquarters Chenopodium album Mustard

Brassica spp.

1. Carlo and Mightshade, black Solanum nigrum Nightshade, hairy Solanum sarrachoides Panicum, fall Panicum dichotomiflorum Pigweed Amaranthus sop. Purslane Portulaca óleracea Pusley, Florida Richardia scabra Ragweed Arbrosia artemisiifolia__ Ryegrass, annual - *-*Lolium spp. Smartweed Polygonum pensylvanicum Polygonum persicaria

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When applied immediately after planting, under the conditions described, this product at a rate of 4 to 5.5 quarts per acre on a broadcast basis REDUCES COMPETITION ' com the following hard-to-control weeds:

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NOTE: For preemergence weed control on highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate is 6.4 quarts of this product per acre (1.6 pounds of atrazine active ingredient per acre).

Buttonweed, Velvetleaf

Abutilon theophrasti Cocklebur Xanthium strumarium Jinsonweed Datura stramonium Morningglory, annual Ipomoea purpurea Bignalgrass, broadleaf Brachiaria platyphylla

Q.

FOR WEED CONTROL IN GRAIN SORGHUM (milo) FIELD CORN, HYBRID SEED CORN AND SILAGE CORN

For preemergence weed control on highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate is 6.4 quarts of this product per acre (1.6 pounds of atrazine 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 is 8 quarts of this product per acre (2 pounds of atrazine active ingredient per acre). If there has been a previous application of a product containing atrazine, do not exceed a total of 2.5 pounds of atrazine active ingredient per acre per calendar year.

Apply this product in water or sprayable fluid fertilizer solutions for control of annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label.

APPROVED APPLICATION SYSTEMS

Ground - Broadcast boom; banded

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Reference: The "APPLICATION SYSTEMS" section of this label provides detailed information on the application of this product using the system selected.

APPROVED APPLICATION METHODS

Preemergence Surface - Apply this product after planting, before crop and weed emergence and within 5 days after last preplant till* 32 operation. See the following table for recommended broadcast rate per acre for preemergence surface applications.

Ramrod/Atrazine FL Worker Protection 14

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Reference: The "APPLICATION TIMING AND METHODS" section of this label provides detailed information and procedures for the application timing and method selected.

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Preemergence Surface Application Rates

SOIL	BROADCAST RATE PER ACRE (QUARTS) **			
TEXTURAL	Less than 3%	3% or more		
GROUP*	organic matter	organic matter		
Coarse***	3.5	4		
Medium	4	4.5		
Fine	4 to 4.5	4.5 to 5.5		

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

****Use the higher rates in the recommended ranges in areas of heavy weed infestations.**

***Do not use on grain sorghum on coarse-textured soils with less $4 \le 4 \le 4$ than 3 percent organic matter.

Note for Corn Only - This product can be applied until weeds reach the 2-leaf stage but prior to corn emergence. Applications beyond the 2-leaf stage will not provide satisfactory results. Better results will be obtained if rainfall occurs within 5 to 7 days after application. If rainfall does not occur, use shallow cultivation with a rolling cultivator or similar implement to remove emerged weeds. Avoid cultivation methods which will displace the treated soil layer. See the rate table in the preemergence section of this label for the recommended for the soil texture and organic matter content to be treated.

If heavy rains follow application, the treatment on the two and sides of the furrow may not provide as good weed control as that obtained in the bottom of the furrow.



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

OMONSANTO COMPANY 1992

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

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

DEC 2 1993

Dr. Russell P. Schneider MONSANTO COMPANY AGENT FOR: MONSANTO AGRICULTURAL CO. 700 14TH ST., N.W. SUITE 1100 WASHINGTON, D.C. 20005 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/16/93 In Response to PR Notice 93-7 EPA Reg. No. 524-328 RAMROD AND ATRAZINE FLOWABLE HERBICIDE

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

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MONSANTO COMPANY EPA REG. NO.: 524-328 07/16/93 RAMROD AND ATRAZINE FLOWABLE HERBICIDE

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Gloves for Mixer/Loaders should be "waterproof".

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Selective herbicide for preemergence weed control in grain sorghum (milo), field corn, hybrid seed corn and silage corn .

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Complete Directions for Use SHAKE WELL BEFORE USING

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PRECAUTIONARY STATEMENTS

GENERAL INFORMATION

MIXING AND SPRAYING INSTRUCTIONS

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Use only according to label instructions.

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

REFORMULATION OR REPACKAGING IS PROHIBITED.

LINIT 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 OF 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, 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

Ramrod/Atrazine FL Worker Protection 2

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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.

WARNING!

CAUSES SUBSTANTTAL BUT TEMPORARY EYE INJURY. HARMFUL IF SWALLOWED CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION.

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

Users are required to wear long sleeve shirts and long pants or equivalent, chemical resistant gloves and boots (waterproofed). In addition, persons involved in mixing/loading operations are required to use heavy duty chemical resistent gloves or neoprene gloves and a face shield or goggles.

Avoid breathing vapor or spray mist.

Keep container closed.

Wash thoroughly with soap and water after handling.

Repove contaminated-clothing and wash before reuser

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 skin-thoroughly with scap and water. Wash clothing before reuser Get medical attention. Sensitized persons should avoid further contact and reuse of the contamined clothing.

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

IF SWALLOWED, induce vomiting only as directed by medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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Collect, day or night, (314) 694-4000.

ENVIRONMENTAL HAZARDS

There is the possibility that this chemical can leach through the soil to groundwater, especially where soils are coarse and groundwater is near the surface. Users are advised not to apply this product to sand and loamy sand soils where the water table (groundwater) is near the surface and where these soils are permeable (well drained).

Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Ramrod/Atrazine FL Worker Protection

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This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or set-back from runoff points must be planted to a crop or seeded with grass or other suitable crop. Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

Care must be taken when using this product to prevent backsiphoning into wells, spills or improper disposal of excess pesticide, spray mixture or rinsates.

Following application, and during rainfall events that cause runoff, atrazine may reach surface water bodies, including streams, rivers and reservoirs.

This product is toxic to fish and wildlife. 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 apply where runoff is likely to occur. Do not apply when weather conditions are likely to cause drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwaters.

Apply this product only as specified on label.

PHYSICAL OR CHEMICAL HAZARDS

In case of: SPILL or LEAK, soak up, remove and keep away from humans a domestic animals.	and
ACTIVE INGREDIENTS*:	
Propachlor, (2-chloro-N- isopropylacetanilide)	31.58
Atrazine,[2-chloro-4-(ethylamino)-	
6-(isopropylamino)-s-triazine]	. 10.0%
Related atrazine compounds	. 0.5%
INERT INGREDIENTS:	. 58.04
	100.0%

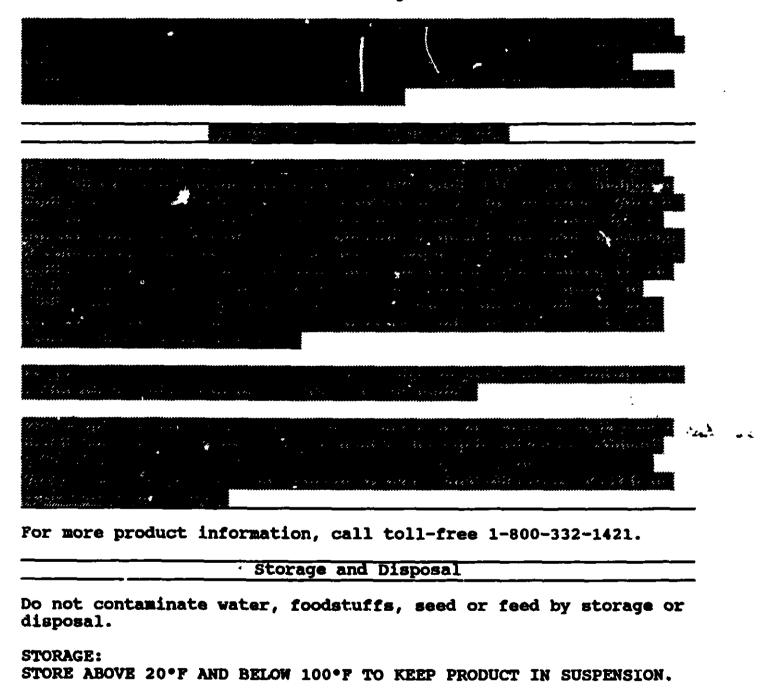
Ramrod/Atrazine FL Worker Protection 5 (7/12/93)

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*Contains 360 grams/liter or 3 pounds/gallon of propachlor and 120 grams/litre or 1 pound/gallon of atrazine and related atrazine compounds.

DIRECTIONS FOR USE

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



Below 20°F the product may freeze. If frozen, mix well to resuspend when temperature is above 40°F.

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Above 100°F, the product may become thick and unsprayable.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable federal, state or local procedures.

(See the individual container label for disposal information.)

GENERAL INFORMATION

This herbicide mixture is recommended for control of many annual grasses and certain broadleaf weeds. For best results it should be applied to the soil surface before crop or weeds emerge. The seedbed should be fine, firm and free of clods and trash; application should be made within 5 days after the last tillage for weed control. Do not apply when conditions favor drift. Some moisture, either as rain or irrigation, is required soon after application to activate this herbicide mixture. On coarse texture soil 1/3 inch of rainfall, and on medium and fine textured and/or high organic soi's 1/3 to 3/4 inch of rainfall is required depending upon original soil moisture. Better results are obtained when moisture occurs within 10 days after application. Generally, lower amounts of rainfall are required when soil moisture is high at time of planting.

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. Keep container closed to prevent spills and contamination.

Flush sprayer with clean water after use.

Do not use this product in fields where flood irrigation is to be practiced.

DO NOT apply in sprayable fluid fertilizer after crop emergence since crop injury may result.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

Do not graze or feed sorghum (milo) forage, silage or fodder (stubble) from treated fields to dairy animals.

CORN, SORGHUM OR SOYBEANS CAN BE PLANTED THE YEAR FOLLOWING THE USE OF THIS TANK MIXTURE. IF SOYBEANS OR OTHER NON- LABELED CROPS ARE PLANTED THE FOLLOWING YEAR, THERE IS THE POSSIBILITY OF CROP

Ramrod/Atrazine FL Worker Protection 7

INJURY DUE TO CARRYOVER OF ATRAZINE.

Do not plant soybeans in areas where furrow irrigation is practiced.

In Texas, on grain sorghum, use only on the fine textured soils of the Gulf Coast.

Applications made to sorghum growing on alkali soils or where cuts, fills or erosions have exposed calcareous or alkali subsoils may result in crop injury.

SOLL 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 textural groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil textural groups.

SOIL TEXTURAL GROUP	SOIL TEXTURE
COARSE: MEDIUM:	sand, loamy sand, sandy loam 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 textural group for the soil to be treated.

MIXING AND SPRAYING INSTRUCTIONS

Always predetermine the compatibility of this product with water carrier or sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. See the "Standard Sprayable Fluid Fertilizer Compatibility Test" section on this label.

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Mix this product or its labeled tank mix with the appropriate carrier as follows:

- 1. Place a 20 to 35 mesh screen or wetting basket over the filling port.
- 2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.
- 3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add it to the carrier already in the tank. Use only compatibility agents, cleared by the Federal Food and Drug Administration for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent. Check for adequate agitation.
- 4. Add the required amount of this product. Continue agitation.
- 5. Complete filling the sprayer tank with carrier. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. Maintain good agitation at all times until the contents of the tank are sprayed, otherwise, settling which can lead to clogging may occur. Close tank valves and drain all lines when spraying is delayed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results, use flat fan or flood jet nozzle. Check for even distribution of spray droplets. To reduce loss of the chemical due to drift of a fine mist, apply at pressures less than 40 psi.

STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to provide compatibility potential.

A. Materials Required For A Compatibility Test

- 1. Two 1 quart jars with lid or stopper (marked ''with'' and ''without'').
- 2. TEAspoons (for a more exacting test, a 5 to 10 milliliter

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Ramrod/Atrazine FL Worker Protection

20 13 (m1) pipette or graduated cylinder is desirable). A minimum of 1 quart of the sprayable fluid fertilizer to be 3. tested. The herbicide(s) to be mixed. 4. A compatibility agent (the purpose of the adjuvant is to 5. help keep the fertilizer and herbicide(s) in suspension, if this assistance is needed). Procedure B. Add 1 pint of the sprayable fluid fertilizer that will be 1. used or other herbicide carrier to each jar marked "with" and "without". Add 1 Pint Liquid Fertilizer To 2 Quart Jars. WITH WITHOUT To the jar marked ''with'', add 1/4 TEAspoon or 1.2 2. milliliters of a suitable compatibility agent; shake gently for 5 to 10 seconds to mix. (1/4 TEAspoon is the equivalent of 2 pints per 100 gallons of liquid fertilizer.) To Jar Marked 'With' Add Compatibility Agent And Shake to Mix. WITH WITHOUT 3. To each jar add the appropriate amount of this product. Shake gently for 5 to 10 seconds. Add Herbicide(s) To Both Jars And Shake to Mix. WITH WITHOUT

Amount to Be Added Per Pint Of Sprayable Fluid Fertilizer (Assuming Volume is 25 gal/%)

HEREICIDE	RATE/A	Level TEAspoons Millilite	
This Product	3.5 qts. = 4 qts. =		16.6 19.0

Ramrod/Atrazine FL Worker Protection 10

4.5 gts.	-	4.3	or 21.4
5 qts.	-	4.8	or 23.8
5.5 qts.		5.3	or 26.2

This compatibility test is designed for 25 gallons of spray per acre with the maximum labeled rate of herbicide. For changes in spray volume or herbicide concentration, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to 2 or 3 pints (2 pints = 1/4 TEAspoon or 1.2 milliliters, 3 pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

C. Observations and Decisions

- 1. If the herbicide(s) and the sprayable fluid fertilizer are compatible.
- 2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small oily particles in the solution.

If incompatibility in any form described above occurs in the jar 'with' the compatibility agent added, the liquid fertilizer and the herbicide(s) should not be used together in the same spray tank.

If incompatibility as described above occurs in the jar "without" the adjuvant but not in the jar "with" adjuvant, the use of a compatibility adjuvant is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. Wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If this product is compatible with fluid fertilizer in the foregoing test without having to use a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible the herbicide(s) should be premixed with water before adding to the spray tank.

APPLICATION INFORMATION

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APPLICATION SYSTEMS

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

Ground Broadcast Treatment - Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer as specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply during periods of gusty winds, when winds are in excess of 15 mph or when other conditions favoring drift exist.

Band Treatment - Apply a broadcast equivalent rate and volume per acre. To determine these:

Band width <u>in inches</u> Row width in inches	x	Broadcast RATE per acre	2	Band RATE per acre
Band width <u>in inches</u> Row width in inches	x	Broadcast VOLUME per acre	=	Band VOLUME per acre

Mount spray equipment on the planter with nozzles behind press wheel and apply this product at planting time.

NOTE: For band application nozzle placement, refer to the nozzle manufacturer's specification as a guide for determining proper nozzle height.

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APPLICATION TINING AND METHODS

Preemergence Surface Application - This product and all labeled tank mixtures may be applied to the soil surface after planting and prior to either crop or weed emergence, apply within 5 days of last preplant tillage. If weeds emerge after last preplant tillage, rotary hoe or shallowly cultivate immediately to improve performance. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide treatment into the weed germination zone. The amount of precipitation or overhead sprinkler irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. Performance is improved when moisture is received within 7 days after application and prior to weed emergence. High intensity or excessive rainfall or excessive irrigation after application may reduce control.

Cultivation Information - Delay cultivation after application for

Ramrod/Atrazine FL Worker Protection 12

as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. If a band application is used and weeds have emerged in the treated band, set cultivator to throw soil into the row covering the band.

WEEDS CONTROLLED

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

When applied as directed, under the conditions described, this product CONTROLS the following weeds.

Barnyardgrass, Watergrass Echinochloa crus-galli Buckwheat, wild Polygonum convolvulus Carpetweed Mollugo verticillata Crabgrass Digitaria spp. Fortail, giant Setaria faberi Fortail, green Setaria viridis Fortail; yellow Setaria lutescens Goosegrass Eleusine indica Groundsel Senecio vulgaris Kochia Kochia scoparia Lambsquarters Chenopodium album Mustard Brassica spp.

Nightshade, black Solanum nigrum Nightshade, hairy Solanum sarrachoides Panicum, fall Panicum dichotomiflorum Pigweed Amaranthus spp. Purslane Portulaca oleracea Pusley, Florida Richardia scabra · Raqueed Ambrosia artemisiifolia Ryegrass, annual Lolium spp. Smartweed Polygonum pensylvanicum Polygonum persicaria

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When applied immediately after planting, under the conditions described, this product at a rate of 4 to 5.5 quarts per acre on a broadcast basis REDUCES COMPETITION from the following hard-tocontrol weeds:

NOTE: For preemergence weed control on highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate is 6.4 quarts of this product per acre (1.6 pounds of atrazine active ingredient per acre).

Buttonveed, Velvetleaf Abutilon theophrasti Cocklebur Xanthium strumarium Jimsonweed Datura stramonium Morningglory, annual Ipomoea purpurea Bignalgrass, broadleaf Brachiaria platyphylla

FOR WEED CONTROL IN GRAIN SORGHUM (milo) FIELD CORN, HYBRID SEED CORN AND SILAGE CORN

For preemergence weed control on highly erodible soils (as defined by the Soil Conservation Service) with less than 30 percent plant residue cover, the maximum rate is 6.4 quarts of this product per acre (1.6 pounds of atrazine 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 is 8 quarts of this product per acre (2 pounds of atrazine active ingredient per acre). If there has been a previous application of a product containing atrazine, do not exceed a total of 2.5 pounds of atrazine active ingredient per acre per calendar year.

Apply this product in water or sprayable fluid fertilizer solutions for control of annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label.

APPROVED APPLICATION SYSTEMS

Ground - Broadcast boon; banded

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Reference: The "APPLICATION SYSTEMS" saction of this label provides detailed information on the application of this product using the system selected.

APPROVED APPLICATION METHODS

Preemergence Surface - Apply this product after planting, before crop and weed emergence and within 5 days after last preplant tillage operation. See the following table for recommended broadcast rate per acre for preemergence surface applications.

Ramrod/Atrazine FL Worker Protection 14

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Reference: The "APPLICATION TIMING AND METHODS" section of this label provides detailed information and procedures for the application timing and method selected.

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SOIL	BROADCAST RATE PER ACRE (QUARTS) **					
TEXTURAL	Less than 3%	3% or more				
GROUP*	organic matter	organic matter				
Coarse***	3.5	4				
Medium	4	4.5				
Fine	4 to 4.5	4.5 to 5.5				

Preemergence Surface Application Rates

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

**Use the higher rates in the recommended ranges in areas of heavy weed infestations.

***Do not use on grain sorghum on coarse-textured soils with less than 3 percent organic matter.

Note for Corn Only - This product can be applied until weeds reach the 2-leaf stage but prior to corn emergence. Applications beyond the 2-leaf stage will not provide satisfactory results. Better results will be obtained if rainfall occurs within 5 to 7 days after application. If rainfall does not occur, use shallow cultivation with a rolling cultivator or similar implement to remove emerged weeds. Avoid cultivation methods which will displace the treated soil layer. See the rate table in the preemergence section of this label for the recommended rate for the soil texture and organic matter content to be treated.

For Lister or Deep Furrow Planted Corn - Apply this product at the higher broadcast rate listed in the rate table in the preemergence section of this label for the soil texture and organic matter content to be treated.

If heavy rains follow application, the treatment on the top and sides of the furrow may not provide as good weed control as that obtained in the bottom of the furrow.

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EPA Reg. No. 524-328

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

•MONSANTO COMPANY 1992

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

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

DEC 2 1993

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

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Dr. Russell P. Schneider MONSANTO COMPANY AGENT FOR: MONSANTO AGRICULTURAL CO. 700 14TH ST., N.W. SUITE 1100 WASHINGTON, D.C. 20005

Subject: Label Amendment Submission of 07/16/93 In Response to PR Notice 93-7 EPA Reg. No. 524-328 RAMROD AND ATRAZINE FLOWABLE HERBICIDE

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 reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (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 not been reviewed or 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:

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
AND

WITHIN one year from date of this acceptance.



Recycled/Recyclebie Printed with Bey/Censis int on paper that contains at ignal 69% recycled Mer

BEST AVAILABLE COPY

Page 2

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

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

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

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

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Attachment

RAMROD® and ATRAZINE Herbicide Mixture by Monsanto

Selective herbicide for preemergence weed control in grain sorghum (milo), field corn, hybrid seed corn and silage corn .

RESTRICTED USE PESTICIDE

(GROUND AND SURFACE WATER CONCERNS) FOR RETAIL SALE AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT IS A RESTRICTED USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS FROM THE USE OF ATRAXINE. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAXIME TO REACH GROUND AND SURFACE WATER.

Complete Directions for Use SHAKE WELL BEFORE USING

•Ramrod is a registered trademark of Monsanto Company.

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PRECAUTIONARY STATEMENTS

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CROPS

EPA Registration No. 524-328 848.29-000.61/53

> ACCEPTED via COMMENTS in EPA Letter Dated

> DEC 2 1993

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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.

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LINIT OF WARRANTY AND LIABILITY

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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, 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 FAID 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

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LIMIT OF WARRAWTY 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. WARNING!

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

Users are required to wear long sleeve shirts and long pants or equivalent, chemical resistant gloves and boots (waterproofed). In addition, persons involved in mixing/loading operations are required to use heavy duty chemical resistent gloves or neoprene gloves and a face shield or goggles.

Avoid breathing vapor or spray mist.

Keep container closed.

Wash thoroughly-with-scap and water after handling.

Remove-contaminated clothing and wash-before-reuser (

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 soop is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Get medical attention. Sensitized persons should avoid further contact and reuse of contamined clothing.

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

IF SWALLOWED, induce vomiting only as directed by medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Ramrod/Atrazine FL Worker Protection

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

ENVIRONMENTAL HAZARDS

There is the possibility that this chemical can leach through the soil to groundwater, especially where soils are coarse and groundwater is near the surface. Users are advised not to apply this product to sand and loamy sand soils where the water table (groundwater) is near the surface and where these soils are permeable (well drained).

Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

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This product may not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or set-back from runoff points must be planted to a crop or seeded with grass or other suitable crop. Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply.

Care must be taken when using this product to prevent backsiphoning into wells, spills or improper disposal of excess pesticide, spray mixture or rinsates.

Following application, and during rainfall events that cause runoff, atrazine may reach surface water bodies, including streams, rivers and reservoirs.

This product is toxic to fish and wildlife. 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 apply where runoff is likely to occur. Do not apply when weather conditions are likely to cause drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwaters.

Apply this product only as specified on lubel.

PHYSICAL OR CHEMICAL HAZARDS	£
In case of: SPILL or LEAK, soak up, remove and keep away from humans domestic animals.	and
ACTIVE INGREDIENTS*: Propachlor, (2-chloro-N- isopropylacetanilide) Atrazine,[2-chloro-4-(ethylamino)-	31.5%
6-(isopropylamino)-s-triazine]	10.0%
Related atrazine compounds	0.5%
INERT INGREDIENTS:	
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*Contains 360 grams/liter or 3 pounds/gallon of propachlor and 120 grams/litre or 1 pound/gallon of atrazine and related atrazine compounds.

DIRECTIONS FOR USE

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

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For more product information, call toll-free 1-800-332-1421.

Storage and Disposal

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

STORAGE: STORE ABOVE 20°F AND BELOW 100°F TO KEEP PRODUCT IN SUSPENSION.

Below 20°F the product may freeze. If frozen, mix well to resuspend when temperature is above 40°F.

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Above 100°F, the product may become thick and unsprayable.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable federal, state or local procedures.

(See the individual container label for disposal information.)

GENERAL INFORMATION

This herbicide mixture is recommended for control of many annual grasses and certain broadleaf weeds. For best results it should be applied to the soil surface before crop or weeds emerge. The seedbed should be fine, firm and free of clods and trash; application should be made within 5 days after the last tillage for weed control. Do not apply when conditions favon drift. Some moisture, either as rain or irrigation, is required soon after application to activate this herbicide mixture. On coarse texture soil 1/3 inch of rainfall, and on medium and fine textured and/or high organic soils 1/3 to 3/4 inch of rainfall is required depending upon original soil moisture. Better results are obtained when moisture occurs within 10 days after application. Generally, lower amounts of rainfall are required when soil moisture is high at time of planting.

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. Keep container closed to prevent spills and contamination.

Flush sprayer with clean water after use.

Do not use this product in fields where flood irrigation is to be practiced.

DO NOT apply in sprayable fluid fertilizer after crop emergence since crop injury may result.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

Do not graze or feed sorghum (milo) forage, silage or fodder (stubble) from treated fields to dairy animals.

CORN, SORGHUM OR SOYBEANS CAN BE PLANTED THE YEAR FOLLOWING THE USE OF THIS TANK MIXTURE. IF SOYBEANS OR OTHER NON- LABELED CROPS ARE PLANTED THE FOLLOWING YEAR, THERE IS THE POSSIBILITY OF CROP

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