

PM 25  
524-331

8/9-1

RAMROD  
FLOWABLE HERBICIDE BY Monsanto

REGISTERED  
JUN 14 1984  
Herbicide,  
Milo Act,  
of the Pesticide  
No. 524-331

RAMROD.  
FLOWABLE HERBICIDE BY Monsanto

Selective herbicide for pre-emergence weed control in field corn, hybrid seed corn, silage corn, sweet corn, grain sorghum (milo), processing green peas, processing pumpkins, and flax.

\* Ramrod is a registered trademark of Monsanto Company

Complete Directions for Use.

SHAKE WELL BEFORE USING

EPA Reg. No. 524-331-AA

1984 1

848 21 00002 53

Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

Read the entire label before using this product

Use only according to label instructions

Not for reformulation or repackaging

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 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, unusual weather (i. weather conditions which are outside the range considered normal at the application

site and for the time period when the product is applied with the normal range being determined on the basis of the average range for the prior 40 years computed from the best available information, and if weather perils, including but not limited to hurricanes, tornadoes and floods) as well as weather considerations 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 or crop.

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 OR CONSEQUENTIAL DAMAGES.

The 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.

8175 E

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

Keep out of reach of children.

**WARNING!**

**HARMFUL IF SWALLOWED OR  
ABSORBED THROUGH SKIN.**

**CAUSES EYE AND SKIN IRRITATION.**

**MAY CAUSE ALLERGIC SKIN REACTION.**

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

Keep container closed.

While handling, wear rubber gloves

Wash thoroughly after handling.

**FIRST AID IN CASE OF CONTACT** immediately

Flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated

clothing. For eyes, call a physician.

Wash clothing before reuse.

**IF SWALLOWED** drink 1 or 2 glasses of water and

induce vomiting by touching back of throat with

finger or blunt object. Do not induce vomiting or

give anything by mouth to an unconscious

person. Get medical attention.

In case of emergency involving this product, call collect, day or night, (214) 694-4000

**Environmental Hazard**

This product is toxic to fish and wildlife. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

Apply this product only as specified on this label.

**Storage and Disposal**

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

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 buried on site in a safe place away from water supplies. All disposal should be in accordance with applicable Federal, state or local procedures.

(See the individual container label for disposal information.)

8/18  
H/SH

**ACTIVE INGREDIENTS**

\*Propachlor, (2-chloro-N-isopropylacetanilide) 42.0%

**INERT INGREDIENTS** 58.0%

100.0%

\*Contains 480 grams/liter or 4 pounds/gallon of propachlor.

**GENERAL INFORMATION**

This product 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. Moisture, either as rain or irrigation, is required after application to activate this product. On coarse soils one-third inch of rainfall, and on medium and fine textured and/or high organic soils one-third to three-fourths 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 or any of its labeled tank mixtures 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 or feed sorghum (milo) forage, silage or fodder (stubble) from treated fields to dairy animals.

Read and carefully observe the cautionary statements and all other information appearing on labeling of all products used in mixtures.

**MIXING AND SPRAYING INSTRUCTIONS**

Always predetermine the compatibility of this product or its labeled tank mix 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.

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.

81795

- 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 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 If a labeled tank mix is being prepared, premix the other product in water. If a wettable powder is used, make a slurry. If flowable atrazine, propazine or Modown are used, premix one part flowable with one part water. Add to tank and continue agitation.
- 6 Complete filling the sprayer tank with carrier. Remove hose from tank immediately after filling to avoid siphoning back into carrier source. NOTE: 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 nozzles. 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.

The test follows:

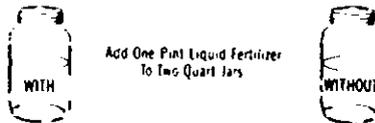
#### A. Materials Required For A Compatibility Test

- 1 Two one-quart jars with lid or stopper (marked "with" and "without")
- 2 Teaspoons (for a more exacting test, a five to ten milliliter (ml) pipette or graduated cylinder is desirable)
- 3 A minimum of one 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)

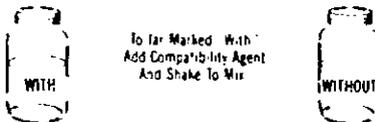
8/18  
609

**B. Procedure**

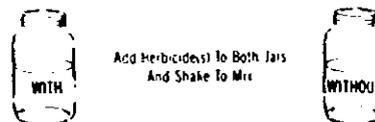
1. Add one pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked "with" and "without".



2. To the jar marked "with", add  $\frac{1}{4}$  TEAspoon or 1.2 milliliters of a suitable compatibility agent; shake gently for five to ten seconds to mix. ( $\frac{1}{4}$  TEAspoon is the equivalent of two pints per 100 gallons of liquid fertilizer.)



3. To each jar add the appropriate amount of herbicide(s). If more than one is used, add them separately with the wettable powders added first, flowables second and liquid last. Shake gently five to ten seconds after each addition.



| HERBICIDE    | RATE /A   | Amount to Be Added Per Pint Of Sprayable Fluid Fertilizer (Assuming Volume is 25 gal/A) |             |
|--------------|-----------|---|-------------|
|              |           | Level   | Level       |
|              |           | TEAspoons   | Milliliters |
| This Product | 2.5 qts = | 2.4   | or 11.8     |
|              | 3.0 qts = | 2.9   | or 14.2     |
|              | 3.5 qts = | 3.4   | or 16.6     |
|              | 4.0 qts = | 3.8   | or 19.0     |
|              | 4.5 qts = | 4.3   | or 21.4     |
|              | 5.0 qts = | 4.8   | or 23.8     |
|              | 5.5 qts = | 5.3   | or 26.2     |
| 6.0 qts =    | 5.8       | or 29.6   |             |

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 two or three pints (two pints =  $\frac{1}{4}$  TEAspoon or 1.2 milliliters, three pints =  $\frac{3}{4}$  TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

7 of 18

**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 the herbicide(s) 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  
GROUND APPLICATION**

**Broadcast Treatment** — Apply in 15 or more gallons of water or sprayable fluid fertilizer per acre according to this label. Do not apply during periods of gusty winds or winds in excess of 15 mph.

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

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per acre} = \text{Band RATE per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per acre} = \text{Band VOLUME per acre}$$

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.

8198

### WEED CONTROL WITH RAMROD FLOWABLE

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

|  |  |
|--|--|
| <b>Barnyardgrass</b><br>Echinochloa crus-galli | <b>Goosegrass</b><br>Eleusine indica             |
| <b>Carpetweed</b><br>Mollugo verticillata      | <b>Panicum (fall)</b><br>Panicum dichotomiflorum |
| <b>Crabgrass</b><br>Digitaria spp              | <b>Pigweed</b><br>Amaranthus spp                 |
| <b>Foxtail (giant)</b><br>Setaria faberi       | <b>Purslane</b><br>Portulaca oleracea            |
| <b>Foxtail (green)</b><br>Setaria viridis      | <b>Pusley (Florida)</b><br>Richardia scabra      |
| <b>Foxtail (yellow)</b><br>Setaria futescens   | <b>Ryegrass (annual)</b><br>Lolium spp           |

When applied immediately after planting, under the conditions described, this product at a rate of 5 to 6 quarts per acre on a broadcast basis **REDUCES COMPETITION** from the following hard-to-control weeds:

|  |  |
|--|--|
| <b>Buckwheat (wild)</b><br>Polygonum convolvulus | <b>Ragweed (common)</b><br>Ambrosia artemisiifolia       |
| <b>Groundsel</b><br>Senecio vulgaris             | <b>Signalgrass (broadleaf)</b><br>Brachiaria platyphylla |
| <b>Lambsquarters</b><br>Chenopodium album        | <b>Smartweed, Ladysthumb</b><br>Polygonum persicaria     |

Read each of these sections of this label for essential product performance information.

**USE THESE CONVENIENT SECTION MARKERS.**

#### CROPS



81 Feb 9

**DIRECTIONS FOR USE**

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

**SHAKE WELL BEFORE USING**

**RAMROD I SPRAYABLE**

**Field Corn, Hybrid Seed Corn, Silage Corn and Sweet Corn**

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply this product in 15 or more gallons of water or sprayable fluid fertilizer per acre on the soil surface any time from immediately after planting and before the crop or weeds emerge. See the following table for recommended rates. In areas of heavy grass or broadleaf weed infestations or when listed hard-to control weeds are present use the higher rate in the recommended ranges.

| SOIL TEXTURE              | BROADCAST RATE IN QUARTS PER ACRE |                           |
|---------------------------|-----------------------------------|---------------------------|
|                           | Less than 3% organic matter       | 3% or more organic matter |
| <b>COARSE</b>             |                                   |                           |
| Sand thru Sandy Loam      | 4 to 4.5                          | 4.5 to 5                  |
| <b>MEDIUM</b>             |                                   |                           |
| Loam thru Sandy Clay Loam | 4.5 to 5                          | 5.25 to 5.5               |
| <b>FINE</b>               |                                   |                           |
| Silty Clay Loam thru Clay | 5.25 to 5.5                       | 5.5 to 6                  |

**For Lister or Deep Furrow Planted Corn** — Apply this product at the broadcast rate of 5.25 to 6 quarts per acre in 15 or more gallons of water. 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.

**Grain Sorghum (Milo)**

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply 4 to 5 quarts of this product in 15 or more gallons of water or sprayable fluid fertilizer solutions per acre any time from immediately after planting and before the crop or weeds emerge. The higher rate should be used on high organic matter soils (greater than 3%) or in areas of heavy grass and broadleaf weed infestations or when listed hard-to control weeds are present.

**For Lister or Deep Furrow Planted Milo** — Apply this product at the broadcast rate of 5 quarts per acre in 15 or more gallons of water. If heavy rains follow application, the treatment on the top and sides of the furrow may not provide as good weed and grass control as that obtained in the bottom of the furrow.

817001

**Peas, Green (for Processing)**

**Preemergence Surface Treatment** — Apply 4 to 5 quarts in 15 or more gallons of water per acre immediately after planting or prior to emergence of crop or weeds

**Pumpkins**

**For Preemergence Control**

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply this product in 15 or more gallons of water per acre on the soil surface any time from immediately after planting and before the crop or weeds emerge. See the following table for recommended rates. In areas of heavy grass or broadleaf weed infestations or when listed hard-to-control weeds are present use the higher rate in the recommended ranges

| SOIL TEXTURE*             | BROADCAST RATE IN QUARTS PER ACRE |                             |
|---------------------------|-----------------------------------|-----------------------------|
|                           | 1 to 3% organic matter            | More than 3% organic matter |
| <b>COARSE</b>             |                                   |                             |
| Sand thru Sandy Loam      | 4 to 4.5                          | 4.5 to 5                    |
| <b>MEDIUM</b>             |                                   |                             |
| Loam thru Sandy Clay Loam | 4.5 to 5                          | 5.25 to 5.5                 |
| <b>FINE</b>               |                                   |                             |
| Silty Clay Loam thru Clay | 5.25 to 5.5                       | 5.5 to 6                    |

\*Do not apply to soil with less than 1% organic matter

NOTE: Apply this product only once per growing season. Do not apply within 90 days of harvest

DO NOT apply to "jack-o-lantern" type pumpkins.

**Flax**

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply 4 quarts of this product in 15 or more gallons of water or liquid fertilizer per acre. This product can be applied on the soil surface any time from immediately after planting and before the crop or weeds emerge

**RAMROD FLOWABLE PLUS  
ATRAZINE (Tank Mixture)**

**Field Corn, Hybrid Seed Corn, Silage Corn,  
Sweet Corn and Grain Sorghum**

NOTE FOR GRAIN SORGHUM:

IN TEXAS USE ONLY ON THE FINE TEXTURE SOILS OF THE GULF COAST

When applied as directed under the conditions described, this tank mixture **CONTROLS** these additional annual broadleaf weeds:

|                           |                           |
|---------------------------|---------------------------|
| <b>Kochia</b>             | <b>Nightshade (hairy)</b> |
| Kochia scoparia           | Solanum sarachoides       |
| <b>Mustard</b>            | <b>Smartweed</b>          |
| Brassica spp              | (Pennsylvania)            |
| <b>Nightshade (black)</b> | Polygonum                 |
| Solanum nigrum            | pensylvanicum             |

8/18/11

When applied as directed under the conditions described this tank mixture REDUCES COMPETITION from these additional hard to control weeds

|                   |                                |
|-------------------|--------------------------------|
| <b>Cocklebur</b>  | <b>Morningglory (annual)</b>   |
| Xanthium          | Ipomoea purpurea               |
| pensylvanicum     | <b>Signalgrass (broadleaf)</b> |
| <b>Jimsonweed</b> | Brachiaria platyphylla         |
| Datura stramonium | <b>Velvetleaf, Buttonweed</b>  |
|                   | Abutilon theophrasti           |

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply this tank mixture in 15 or more gallons of water or sprayable fluid fertilizer per acre on the soil surface any time from immediately after planting and before either the crop or weeds emerge. See the following table for recommended rates. In areas of heavy grass or broadleaf weed infestations or when listed hard to control weeds are present use the higher rate in recommended range.

**BROADCAST RATE IN POUNDS PER ACRE**

| SOIL TEXTURE              | Less than 3% organic matter   |                       | 3% or more organic matter     |                       |
|---------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
|                           | Ramrod Flowable + 4L (Quarts) | atrazine* 4L (Quarts) | Ramrod Flowable + 4L (Quarts) | atrazine* 4L (Quarts) |
| <b>COARSE**</b>           |                               |                       |                               |                       |
| Sand thru Sandy Loam      | 2.5                           | 1.0                   | 3                             | 1.2                   |
| <b>MEDIUM</b>             |                               |                       |                               |                       |
| Loam thru Sandy Clay Loam | 3                             | 1.2                   | 3.4                           | 1.4                   |
| <b>FINE</b>               |                               |                       |                               |                       |
| Silty Clay Loam thru Clay | 3                             | 1.2 to 1.4            | 3.4 to 4                      | 1.4 to 1.6            |

\*Use rates listed in this label when using atrazine 4L. Use equivalent rates when using atrazine 80W or 90% dry flowable formulations. One quart of atrazine 4L equals 1.25 pounds of atrazine 80W or 1.1 pounds of atrazine 90% dry flowable.

\*\*Do not use on grain sorghum on coarse texture soils with less than 3% organic matter.

819-21  
12-1-18

PLANT ONLY CORN, SORGHUM OR SOYBEANS THE YEAR FOLLOWING THE USE OF THIS TANK MIXTURE. IF SOYBEANS ARE TO BE PLANTED THERE IS A POSSIBILITY OF CROP INJURY DUE TO CARRYOVER OF ATRAZINE. Do not plant soybeans in areas where furrow irrigation is practiced. Applications made on alkali soils or where cuts, fits or erosion have exposed calcareous or alkali subsoils may result in crop injury to milo.

**Emerged Weed Control — For Corn Only —** This tank mixture 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 to remove emerged weeds. Avoid cultivation methods which will displace the treated soil layer.

See the rate table in the Preemergence Treatment 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 tank mixture 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.

**RAMROD FLOWABLE PLUS  
PROPAZINE (Tank Mixture)**

**Grain Sorghum (Milo)**

When applied as directed under the conditions described, this tank mixture **CONTROLS** these additional annual broadleaf weeds:

- |                 |                      |
|-----------------|----------------------|
| <b>Kochia</b>   | <b>Lambsquarters</b> |
| Kochia scoperia | Chenopodium album    |

When applied as directed under conditions described, this tank mixture **REDUCES COMPETITION** from this additional annual broadleaf weed:

- Morningglory (annual)**  
Ipomoea purpurea

130-18

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds apply this tank mixture in 15 or more gallons of water per acre anytime after planting and before either crop or weeds emerge. Application must be made within 5 days of last tillage operation for best results. See the following table for recommended rates.

| SOIL TEXTURE            | BROADCAST RATE PER ACRE QUARTS |  |
|-------------------------|--------------------------------|--|
|                         | Ramrod Flowable +              | Propazine 4L More than 1% organic matter** |
| <b>COARSE</b>           |                                |  |
| Sand thru Sandy Loam    | 2.5 to 3                       | 8 to 1*                                    |
| <b>MEDIUM THRU FINE</b> |                                |  |
| Loam thru Clay          | 3                              | 1  |

\*Use the higher rates within the recommended range for this tank mixture when heavy weed infestations exist, harder-to-control species are present or soil organic matter is greater than 3 percent.

In coarse soil types with 1% or less organic matter, use the following rates of propazine 80W in the tank mixture:

| COARSE SOILS Percent Organic Matter | Quarts Propazine 4L per acre** |
|-------------------------------------|--------------------------------|
| Less than 75%                       | 4                              |
| 75% to 1%                           | 6                              |

\*\* Use rates listed in this label when using propazine 4L. Use equivalent rates when using atrazine 80W or 90% dry flowable formulations. One quart 4L equals 1.25 pounds of 80W or 1.1 pounds of 90% dry flowable.

**NOTE:** Applications of this tank mixture to alkali soils where cuts, hills, or erosions have exposed calcareous or alkali subsoils may result in crop injury. Do not plant crops other than corn or sorghum for 18 months following application of this tank mixture due to possibility of crop injury from propazine carryover. Whenever using reduced rates of propazine recommended for coarse soils with less than 1% organic matter, duration of weed control may be reduced. Weed control may be reduced if either an irrigation or a rainfall in excess of one inch occurs after application.

All applicable directions, restrictions and precautions on the container labels for Ramrod Flowable herbicide and propazine are to be followed.

8/15/11

**RAMROD FLOWABLE PLUS  
MODOWN™ 4F FLOWABLE  
(Tank Mixture)**

**Grain Sorghum (Milo)**

When applied as directed under the conditions described, this tank mixture **CONTROLS** these additional annual broadleaf weeds:

- |                 |                      |
|-----------------|----------------------|
| <b>Kochia</b>   | <b>Lambsquarters</b> |
| Kochia scoperia | Chenopodium album    |

When applied as directed under the conditions described, this tank mixture **REDUCES COMPETITION** from these additional annual broadleaf weeds:

- |                              |                                |
|------------------------------|--------------------------------|
| <b>Jimsonweed</b>            | <b>Sida (prickly), Teaweed</b> |
| Datura stramonium            | Sida spinosa                   |
| <b>Morningglory (annual)</b> | <b>Velvetleaf, Buttonweed</b>  |
| Ipomoea purpurea             | Abutilon theophrasti           |

**Preemergence Surface Treatment** — For control of listed annual grasses and broadleaf weeds, apply this tank mixture in 15 or more gallons of water per acre any time after planting and before either crop or weeds emerge. Application must be made within 5 days of last tillage operation for best results. See the following table for recommended rates.

| SOIL TEXTURE            | BROADCAST RATE<br>IN QUARTS PER ACRE |                         |
|-------------------------|--------------------------------------|-------------------------|
|                         | Ramrod<br>Flowable                   | + Modown<br>4F Flowable |
| <b>COARSE</b>           |                                      |                         |
| Sand thru<br>Sandy Loam | 3                                    | 1.25                    |
| <b>MEDIUM and FINE</b>  |                                      |                         |
| Loam thru Clay          | 3 to 4                               | 1.25 to 1.5             |

Use the higher rate within the recommended range for this tank mixture when heavy weed infestations exist, harder-to-control species are present, or soil organic matter is greater than 3 percent.

© 2008 Valent U.S.A. Inc.

**NOTE:** Do not apply this tank mixture after it has begun to crack the soil surface just prior to emergence. Rainfall which splashes treated soil onto the crop at time of emergence may result in crop injury from Modown. Do not rotate to crops other than corn, soybeans, grain sorghums, small grains or rice prior to one year following treatment with this tank mixture.

All applicational directions, restrictions and precautions on the container labels for Ramrod Flowable herbicide and Modown herbicide are to be followed.

15-AB-18

30

848 21 000 02 53

EPA Reg No 524-331-AA

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

© MONSANTO COMPANY 1984



MONSANTO COMPANY  
AGRICULTURAL PRODUCTS  
ST LOUIS MISSOURI 63167 USA

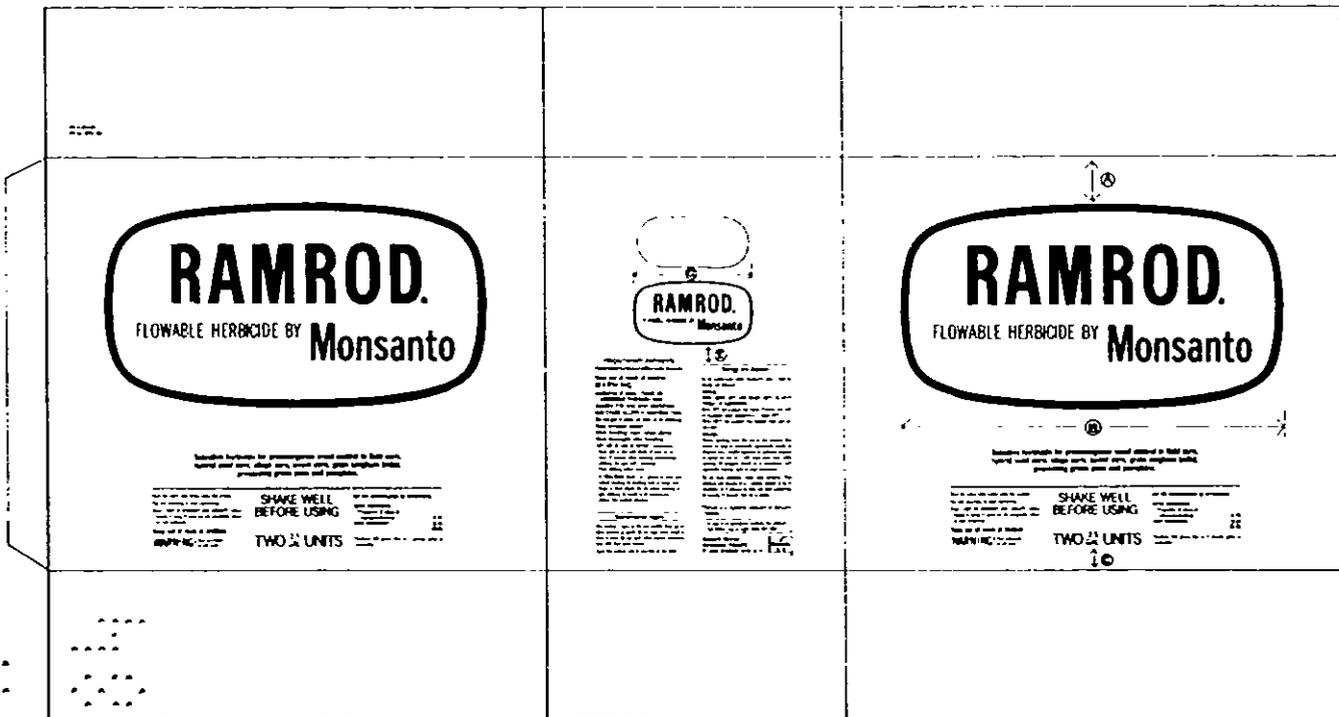
# SHIPPING CONTAINER PRINTING LAYOUT

Date \_\_\_\_\_

Order No. \_\_\_\_\_

Req. No. OCT. 31, 1984

Die Reorder No. \_\_\_\_\_



ACCOUNTED  
 DEC 14 1984  
 EKA Reg. No. 524-331

- (A) 1 1/2" FROM TOP SCORE
- (B) 13" LEFT TO RIGHT
- (C) 3/4" FROM BOTTOM SCORE
- (D) 4 1/4" FROM TOP SCORE
- (E) 5/8" SPACE BETWEEN COPY
- (F) 1" SPACE BETWEEN COPY
- (G) 4" LEFT TO RIGHT

THIS MINIATURE SHOULD  
 NOT BE FOLLOWED  
 FOR EXACT SIZE OR COLOR.

OUR RESPONSIBILITY... REPLACEMENT OF DIES ONLY

11548 ADIE ROAD

MAS

**RAMROD.**

FLOWABLE HERBICIDE BY **Monsanto**

Selective herbicide for pre-emergence weed control in field corn, hybrid seed corn, silage corn, sweet corn, grain sorghum (milo), processing green peas, and pumpkins.

Complete Directions for Use.

SHAKE WELL BEFORE USING

EPA Reg No 524-331 AA

1982-1

2071 06 2 5

**RAMROD.**

FLOWABLE HERBICIDE BY **Monsanto**

**2 1/2**

GALLON

Invalid without copy of Invoice

817981

**RAMROD.**  
FLOWABLE HERBICIDE BY **Monsanto**

Selective herbicide for pre-emergence weed control in field corn, hybrid seed corn, silage corn, sweet corn, grain sorghum (milo), processing green peas, processing pumpkins, and flax.

\*Ramrod is a registered trademark of Monsanto Company

Complete Directions for Use.

SHAKE WELL BEFORE USING

EPA Reg. No. 524-331 AA

1984 1

848 21 000 02 25

**RAMROD.**  
FLOWABLE HERBICIDE BY **Monsanto**

**2 1/2**  
GALLON

Inveld without copy of invoice