

EPA Reg. Number:

Date of Issuance:

524-531

MAR - 3 200B

Term of Issuance:

Name of Pesticide Product:

RT Master

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Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration
X Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Monsanto Company 1300 I Street, NW Suite 450 East Washington, DC 20005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

# This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you agree in writing to:

- 1) The text "See engineering controls for additional requirements" must be added to the end of the PPE statements.
- 2) The mechanical transfer engineering control may be deleted from the label. The following text must be added to the label:

"Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40CFR 170.240 (d)(6)."

3) The text in bold type must be added to the User Safety Recommendation text current on the label:

"User should remove clothing/PPE immediately if pesticide gets inside."

- 4) Per the RED, the text "This product may be toxic to aquatic invertebrates" currently on the label must be revised to read "This pesticide may be toxic to fish and aquatic invertebrates."
- 5) The text appearing in the Non-Agricultural Use Requirements box "Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation" must be revised per the RED to read "Do not enter or allow people to enter the treated area until sprays have dried."
- 6) Per the RED, the label must be revised as follows. Any conflicting text must be removed.

# **Cereal Grains:**

Add to the directions for preharvest use:

"Do not apply more than one preharvest application per crop cycle.

Do not apply more than 1.75 lbs ae per acre per crop cycle."

# CRP:

Add the following text:

"Do not apply more than 2 times per year.

The maximum application rate is 2.0 lbs ae per acre per application.

The minimum retreatment interval is 30 days.

For program lands, such as Conservation Reserve Program, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed."

# Field and pop corn:

"Do not use treated crop as fodder for 7 days following application.

The preharvest interval is 7 days.

The maximum application rate per crop cycle is 3 lbs ae per acre.

# Preplant or preemergence:

Apply only one preplant or preemergence application per crop cycle.

The maximum application rate is 1.0 lb ae per acre per application.

# Postemergence:

Apply only one postemergence application per crop cycle.

The maximum application rate is 0.5 lb ae per acre per application.

## Preharvest:

Apply only one preharvest application per crop cycle.

The maximum application rate is 1.5 lbs ae per acre per application."

# Sweet Corn:

"Do not use treated crop as fodder for 7 days following application.

The preharvest interval is 45 days.

The minimum interval between applications is 21 days.

The maximum application rate per crop cycle is 1.5 lbs ae per acre.

# Preplant or preemergence:

Apply only one preplant or preemergence application per crop cycle.

The maximum application rate is 1.0 lbs ae per acre per application.

# Postemergence:

Apply only one postemergence application per crop cycle.

The maximum application rate is 0.5 lbs ae per acre per application."

# Fallowland:

"Plant only labeled crops within 29 days following application.

Do not apply more than 2 applications per year.

The maximum application rate is 2.0 lbs ae per acre per application."

[Rates must be specified.]

# Farmstead (Non-Cropland):

# "Postemergence (annual and perennial weeds):

Do not apply more than 2 applications per year.

The maximum application rate is 2.0 lbs ae/acre per application.

The minimum retreatment interval is 30 days.

# Postemergence (woody plants):

Do not apply more than once year.

The maximum application rate is 4.0 lbs ae/acre per year."

# Sorghum:

"The preharvest interval (PHI) is 30 days.

Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.

# Postemergence:

Do not apply more than one application per crop cycle.

The maximum application rate is 1.0 lb ae/acre per application."

# Grass seed:

"Do not apply more than 2 times per year.

The maximum application rate is 2.0 lbs ae per acre per application.

The minimum retreatment interval is 21 days."

# Pasture:

"Do not cut forage for hay within 7 days of application.

# Postemergence:

For susceptible annual and biennial broadleaf weeds: Use 1.0 lbs ae/acre per application.

For moderately susceptible biennial and perennial broadleaf weeds: Use 1.0 to 2.0 lbs ae/acre per application.

For difficult to control weeds and woody plants: Use 2.0 lbs ae/acre per application.

Spot treatment: Use 2.0 lbs ae/acre.

Do not apply more than two applications per year.

The maximum application rate is 4.0 lbs ae/acre per year.

The minimum retreatment interval is 30 days.

If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable."

# Rangeland:

# Postemergence:

"For susceptible annual and biennial broadleaf weeds: Use 1.0 lbs ae/acre per application.

For moderately susceptible biennial and perennial broadleaf weeds: Use 1.0 to 2.0 lbs ae/acre per application.

For difficult to control weeds and woody plants: Use 2.0 lbs ae/acre per application.

Spot treatment: Use 2.0 lbs ae/acre.

The maximum application rate is 4.0 lbs ae/acre per year.

The minimum retreatment interval is 30 days.

If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable."

# Soybeans:

"Apply not less than 30 days prior to planting soybeans."

Signature of Approving Official:

Date:

MAR - 3 7008

Joanne Miller, Product Manager (23)
Herbicide Branch, Registration Division (7505P)

EPA Form 8570-6

You will submit one copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). A stamped copy of labeling is enclosed for your records. If you have any questions please contact Erik Kraft at 703-308-9358.

ACCEPTED with COMMENTS In EPA Letter Dated:

MAR - 3 2008
Under the Federal insecticitie,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Rcg. No.

524-53

RT Master Herbicide by Monsanto

Complete Directions for Use

EPA Reg. No. 524-531

HERBICIDE FOR Control of annual and perennial weeds in [geographic area to be added at time of label printing]

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

RT Master, Monsanto and the Vine symbol are trademarks of Monsanto Technology LLC.

#### Container Statement:

Read "Limit of Warranty and Liability" which appears in the label booklet, before buying or using. If terms are not acceptable, return at once unopened.

Read the entire label before using this product.

Use only according to label instructions.

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

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

# Refillable Container Label Statement:

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. IT IS INTENDED THAT REPACKAGING BE ONLY IN ACCORDANCE WITH A MONSANTO REPACKAGING OR TOLL REPACKAGING AGREEMENT.

Non-Refillable Container Label Statement:

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION OR REPACKAGING.

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11.0 LIMIT OF WARRANTY AND LIABILITY

#### 1.0 INGREDIENTS

ACTIVE INGREDIENTS:	
*Glyphosate, N-(phosphonomethyl)	•
glycine, in the form of its isopropylamine salt	41.0%
**2,4-D, 2,4-dichlorophenoxyacetic acid,	
in the form of its isopropylamine salt	4.2%
······································	
•	
OTHER INGREDIENTS:	54.8%
Q11DK II/OIODDDI/IO	100.0%
	100.076

- \*Contains 480 grams per liter or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt.
- \*\*Contains 49 grams per liter or 0.4 pounds per U.S. gallon of the active ingredient 2,4-dichlorophenoxyacetic acid, in the form of its isopropylamine salt.

#### 2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE,

1-800-332-3111

IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT,

(314)-694-4000

## 3.0 PRECAUTIONARY STATEMENTS

# 3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

## **CAUTION!**

CAUSES MODERATE EYE IRRITATION

Avoid contact with eyes or clothing.

## **FIRST AID**

IF IN EYES,	• Hold eye open and rinse slowly and gently with water for 15 - 20
	minutes.
·	• Remove contact lenses, if present, after the first 5 minutes, then
	continue rinsing eye.
<u>:</u>	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
	HOT LINE NUMBER

## **HOT LINE NUMBER**

- Have product container or label with you when calling a poison control center or doctor, or going for treatment.
- You may also contact (314) 694-4000, collect day or night, for emergency medical treatment information.
- This product is identified as [INSERT BRAND NAME], EPA Registration No. 524-531.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

# Personal Protective Equipment (PPE)

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

All mixers, loaders, applicators, flaggers and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks and protective eyewear. Chemical resistant gloves are required when applying with any handheld nozzle or equipment. A chemical resistant apron plus chemical resistant gloves are required when mixing, loading, cleaning up spills or equipment or when otherwise exposed to this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

# **Engineering Controls:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

For containers of 5 gallons or more: A mechanical system (such as probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements in the WPS for agricultural pesticides [40 CFR 170.240 (d) (4)], the handler PPE requirements may be reduced or modified as specified in the WPS. Pilot must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

## **User Safety Recommendations:**

## Users should:

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

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

#### 3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product may be toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. Application around a cistern or well may result in contamination of drinking water or ground water.

# 3.3 Physical or Chemical Hazards

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

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

# **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling.

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

# Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks, protective eyewear.

# Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

#### 4.0 STORAGE AND DISPOSAL

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

See container label for STORAGE AND DISPOSAL instructions.

Keep container closed to prevent spills and contamination.

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.

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

[Alternate Container Label Storage and Disposal Statements by Container Type]:

## [FOR REFILLABLE PORTABLE (MINI-BULK) CONTAINERS]

This container must only be refilled with pesticide product. Do not reuse this container for any other purpose.

Final disposal must be in compliance with state and local regulations. If not refilled, returned, or recycled, triple rinse or pressure rinse, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Do not transport this container if it is damaged or leaking. If the container is damaged, leaking or obsolete, or to obtain information about recycling portable refillable containers, contact Monsanto Company at 800-768-6387.

Users: When the container is empty, replace the cap and seal all openings that have been made during usage, and return the container to the point of purchase, or to an alternate location designated by the manufacturer at the time of purchase of this product. If not returned, triple rinse or pressure rinse the empty container and offer it for recycling if available.

Refillers: Do not reuse this mini-bulk container except for refill in accordance with a valid Monsanto Repackaging or Toll Repackaging Agreement. Prior to refilling, inspect carefully for damage such as

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cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting.

# [FOR REFILLABLE STATIONARY BULK CONTAINERS]

This container must only be refilled with pesticide product. Do not reuse this container for any other purpose.

Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices.

Final disposal must be in compliance with state and local regulations. If not refilled, triple rinse or pressure rinse container and offer for recycling or reconditioning if possible. If burned, stay out of smoke.

# (FOR PLASTIC 1-WAY CONTAINERS & BOTTLES)

Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill. or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## (FOR DRUMS)

Do not reuse container. Return container per the Monsanto container return program. If not returned, triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# 5.0 GENERAL INFORMATION (HOW THIS PRODUCT WORKS)

**Product Description:** This product is a postemergent, systemic herbicide. It is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Stage or Condition of Weeds: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow.

Weeds under poor growing conditions such as drought stress, disease or insect damage, may absorb less herbicide resulting in reduced weed control. Reduced results may also occur when treating weeds heavily covered with dust.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Refer to the annual, perennial, woody brush and trees rate tables for recommendations for specific weeds.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

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**Spray Coverage:** For best results, spray coverage should be uniform and complete. However, spraying herbicide solution to the point of runoff is wasteful and should be avoided.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture, including retreatment intervals, and preharvest intervals. Carefully follow the maximum annual treatment rate for 2,4-D when mixing with other 2,4-D containing products. When this label recommends a tank mixture with a generic active ingredient such as atrazine or dicamba, the user must ensure that the mixture product's label allows the specific application site.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: Except as otherwise specified in a crop section of this label, the combined total of all treatments must not 8 quarts of this product per acre per year. [Optional Statement: This maximum rate is equivalent to 0.64 pounds of 2,4-D acid equivalents per acre per year and 6 pounds of glyphosate acid equivalents per acre per year.]

For noncrop uses, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year. [Optional Statement: This maximum rate is equivalent to 0.85 pounds of 2,4-D acid equivalents per acre per year and 8 pounds of glyphosate acid equivalents per acre per year.]

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing 2,4-D, glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other products do not exceed stated maximum use rates.

## 6.0 MIXING

Reduced results may occur if water containing soil is used, such as visibly muddy water or water from ponds and ditches that is not clear.

# 6.1 Mixing with Water or Liquid Nitrogen Solutions

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product near the end of the filling process. Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process. Mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

NOTE: Before mixing this product or labeled tank mixtures of this product with liquid nitrogen solutions, the planned combination should be tested for compatibility. Use 10 to 60 gallons of nitrogen solution per acre.

## **6.2 Tank Mixing Procedure**

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Mix labeled tank mixtures of this product with water as follows:

- 1. Place a 20 to 35 mesh screen or wetting basket over filling port.
- 2. Through the screen, fill the spray tank one-half full with water and start agitation.
- 3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- 4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- 6. Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.
- 7. Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.
- 8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to the "Tank Mixing" section of "GENERAL INFORMATION" for additional precautions.

# 6.3 Mixing for Hand-held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

# Spray Solution

100 Gal

vn. ' 1			Amount of	R I Master	-	
Desired Volume	1/2%	. 1%	1 1/2%	2%	5%	10%
1 Gal	2/3 oz	1-1/3 oz	2 oz	2-2/3 oz	6-1/2 oz	12-3/4oz
25 Gal	1 nt	1 at	1-1/2 at	2 at	5 at	10 at

1-1/2 gal

2 gal

5 gal

# 2 tablespoons = 1 fluid ounce

2 qt

1 gal

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

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10 gal

#### 6.4 Nonionic Surfactants

Nonionic surfactants which are labeled for use with herbicides may be used with this product and labeled tank mixtures. The use of surfactants as additives does not reduce the application rate of this product required to achieve weed control. When adding additional surfactant, use 0.5 percent concentration (2 quarts per 100 gallons of spray solution) of surfactant containing at least 70 percent active ingredient or a 1 percent concentration (4 quarts per 100 gallons of spray solution) for those containing less than 70 percent active ingredient. Read and carefully observe cautionary statements and other information appearing on the surfactant label.

NOTE: Use of herbicides at lower than label recommended rates will result in reduced performance.

#### 6.5 Ammonium Sulfate

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product, particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

NOTE: The use of ammonium sulfate as an additive does not preclude the need for additional surfactant. Recommended rates for herbicides and surfactant should be maintained when adding ammonium sulfate.

# 6.6 Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or higher dilutions. Use colorants or dyes according to the manufacturer's recommendations.

## 6.7 Drift Control Additives

Drift control additives may be used with all equipment types, except wiper applicators and sponge bars. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

# 7.0 APPLICATION EQUIPMENT AND TECHNIQUES

This product may be applied with the following application equipment:

Aerial--Fixed Wing and Helicopter

Ground Broadcast Spray--Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.

Hand-Held and High-Volume Spray Equipment--Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage.

Selective Equipment—Recirculating sprayers, shielded and hooded sprayers, wiper applicators and sponge bars.

Injection Systems--Aerial or ground injection sprayers.

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#### ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

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

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. CLEAN SPRAYER PARTS IMMEDIATELY AFTER USING THIS PRODUCT BY THOROUGHLY FLUSHING WITH WATER AND AN APPROVED CLEANING AGENT.

## SPRAY DRIFT MANAGEMENT

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended.

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground or aerial) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product. Avoiding spray drift at the application site is the responsibility of the applicator.

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

# **Droplet Size**

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

## Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

### **Temperature Inversions**

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

# Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use, or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans

(vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables or tobacco. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants.

Avoid direct application to any body of water.

# 7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Aerial applications of this product should not exceed 1 quart per acre unless otherwise specified. Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems and preharvest applications. Refer to the individual use area sections of this label for recommended volumes and application rates.

Ensure uniform application--To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Equipment Maintenance: Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. Prolonged exposure of this product to uncoated steel surfaces may result in corrosion and possible failure of the part. Landing gear are most susceptible. The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller droplets, etc.).

Boom Length: The boom length must not exceed 75% of the wingspan or 90% of the rotor diameter.

Application Height: Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

# 7.2 Ground Broadcast Equipment

Use the recommended rates of this product in 3 to 10 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume may be increased up to 40 gallons within the recommended range to ensure complete coverage. Select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets. Do not apply with a nozzle height greater than 4 feet above the crop canopy.

# 7.3 Hand-Held and High-Volume Equipment

For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. However, spraying herbicide solution to the point of runoff is wasteful and should be avoided. Use coarse sprays only.

# 7.4 Selective Equipment

This product may be applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

# Shielded and hooded applicators

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

To minimize potential for crop injury:

- The spray hoods must be operated on the ground or skimming across the ground.
- Leave at least an 8 inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 mph.
- Maximum wind speed: 10 mph.
- Use low-drift nozzles.

# Wiper applicators and sponge bars

A wiper or sponge applicator applies the herbicide solution directly onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

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Wiper equipment can be ineffective in transferring herbicide to weeds that are wet at the time of application.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

Because wiper solutions are already very concentrated, no additional surfactant is needed.

# 7.5 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Because compatibility of concentrated products has not been tested, mixture of this product with the concentrate of other products is not advised when using injection systems.

## 8.0 CROPS (Alphabetical)

This section is organized alphabetically by crop category. There may be several labeled crops listed in a crop category.

Unless otherwise specified, applications may be made to control any weeds listed in the annual and perennial tables.

# PRECAUTIONS, RESTRICTIONS FOR ALL CROP USES:

- For any crop not listed in this "CROPS" section, applications must be made at least 30 days prior to planting.
- For Spot Treatments in labeled crops, do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Avoid drift or spray outside target area for the same reason.
- For Broadcast Postemergent Treatments, do not graze, harvest or feed treated vegetation for 8 weeks following application unless otherwise specified.

## 8.1 Cereal Crops

LABELED CROPS: Barley, Millet (Pearl, Proso), Rye, Triticale, and Wheat (All)

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, post-harvest, preharvest (wheat and barley only).

# Preplant, preemergence, at-planting

USE INSTRUCTIONS: This product may be applied once prior to emergence of labeled crops.

PRECAUTIONS, RESTRICTIONS: Do not exceed 2 quarts per acre.

# Spot treatment

USE INSTRUCTIONS: This product may be applied as a single spot treatment in labeled cereal crops. Apply this product before heading in small grains.

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# Preharvest (wheat, feed barley)

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of wheat or barley. Apply after the hard-dough stage of grain (30 percent or less grain moisture) and at least 14 days prior to harvest. This product may be applied using either aerial or ground spray equipment. Stubble may be grazed 2 weeks after treatment.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre. Since herbicide treatment may reduce germination or vigor, it is not advised to treat wheat or barley grown for seed. Allow at least 14 days between application harvest of grain. Allow 7 days between application and grazing or harvest of forage or straw.

# Wiper applications (wheat only)

USE INSTRUCTIONS: Wiper applications may be used in wheat. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth, when the rye is at least 6 inches above the wheat crop.

PRECAUTIONS, RESTRICTIONS: Allow at least 14 days between application and harvest. Do not use roller applicators.

#### **Postharvest**

USE INSTRUCTIONS: This product may be applied after harvest of cereal crops. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

#### 8.2 Conservation Reserve Program (CRP)

TYPES OF APPLICATIONS: Renovation (rotating out of CRP), postemergence, site preparation, wiper.

## Renovation (rotating out of CRP), Site preparation

USE INSTRUCTIONS: This product may be used to prepare CRP land for crop production.

PRECAUTIONS, RESTRICTIONS: For any crop not listed in this "CROPS" section, applications must be made at least 30 days prior to planting.

## Postemergence, Wiper

USE INSTRUCTIONS: This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 8 to 10 fluid ounces of this product per acre in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

PRECAUTIONS, RESTRICTIONS: Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant.

## 8.3 Corn

TYPES OF CORN: Field corn, seed corn, sweet corn and popcorn

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, hooded sprayers, spot treatment, preharvest, post-harvest

# Preplant, Preemergence and At-Planting

USE INSTRUCTIONS: This product may be applied once before, during or after planting com. Apply up to 2 quarts of this product per acre. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

**ATRAZINE** 

EXTRAZINE™

LOROX™

**BANVELTM** 

FRONTIER™

MARKSMAN™

**BICEPTM** 

**GUARDSMAN™** 

MICRO-TECH®

BICEP II HARNESS XTRA

BROADSTRIKE™

**HARNESS® PROWLTM** 

HARNESS XTRA 5.6L

**SIMAZINE** 

**BULLET®** 

**LARIAT®** 

SURPASS™

**DUAL**<sup>TM</sup>

**ALACHLOR SURPASS 100** 

TOPNOTCH™

**DUAL II** LINEX<sup>TM</sup>

For improved burndown, this product may be tank mixed with 2,4-D or dicamba. The maximum rate of

2,4-D that may be used preemergence to corn is 1.25 pounds acid equivalent per acre per year.

PRECAUTIONS, RESTRICTIONS: Applications of dicamba must be made at least 7 days prior to planting corn.

# **Hooded Sprayers**

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. Corn must be at least 12 inches tall, measured without extending leaves.

When applying to corn that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows. See additional instruction for the use of hooded sprayers in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment in not intended may cause damage. Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop or when the leaves of the crop are growing in direct contact with weeds to be treated. Such damage shall be the sole responsibility of the applicator. Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers. Do not apply more than 1 quart of this product per acre as a single hooded sprayer application.

#### Spot treatment

USE INSTRUCTIONS: For spot treatments, apply this product prior to silking of corn.

PRECAUTIONS, RESTRICTIONS: Do not graze or feed treated forage for 7 days after spot treatments.

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#### **Preharvest**

USE INSTRUCTIONS: Make a single application at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3 quarts of this product per acre. For aerial applications, apply up to 1 quart of this product per acre.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest of grain or fodder. It is not recommended that corn grown for seed be treated because a reduction in germination or vigor may result.

#### Post-harvest

USE INSTRUCTIONS: This product may be applied after harvest of corn. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: Do not graze, harvest or feed treated vegetation for 7 days following application.

## 8.4 Fallow Systems

TYPES OF APPLICATIONS: Chemical fallow and aid-to-tillage.

PRECAUTIONS, RESTRICTIONS: Do not cut forage for hay within 7 days of application.

#### Chemical fallow

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D, dicamba, Tordon™ 22K, or atrazine may be used. Observe at least a 30-day retreatment interval.

### Aid-to-tillage

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage.

# 8.5 Farmsteads

TYPES OF APPLICATIONS: General nonselective weed control, trim-and-edge, chemical mowing

#### General nonselective weed control, Trim-and-edge

USE INSTRUCTIONS: This product may be used to control annual weeds and perennial weeds which are found in any part of the farmstead, including building foundations, along and in fences, shelterbelts, and equipment storage areas.

### Chemical mowing

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USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Apply this product at rate of 6 to 8 fluid ounces per acre. Use 8 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

PRECAUTIONS, RESTRICTIONS: Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

# 8.6 Grain Sorghum (Milo)

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, wiper applicators, hooded sprayers, postharvest

# Preplant, Preemergence, At-planting

USE INSTRUCTIONS: This product may be applied once before, during or after planting milo. Apply up to 1.5 quarts of this product per acre.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

ATRAZINE

LARIAT

BICEP II

ALACHLOR

BULLET

**MICRO-TECH** 

**DUAL II** 

PRECAUTIONS, RESTRICTIONS: Under certain circumstances, an application of 2,4-D may result in reduced early growth vigor. Applications should be made 5-7 days prior to anticipated emergence of the crop to allow adequate dissipation of 2,4-D.

## Spot treatment and Wiper applications

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER APPLICATORS" in the "ANNUAL WEEDS" and "PERRENIAL WEEDS" sections of this label.

PRECAUTIONS, RESTRICTIONS: For wiper applicators, avoid treatment during the boot, tasseling, or early dough stages. Allow at least 40 days between application and harvest. Use of roller applicators is not recommended. Do not ensile treated vegetation.

# **Hooded Sprayers**

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of milo. Only hooded sprayers that completely enclose the spray pattern may be used. Milo must be at least 12 inches tall, measured without extending leaves. Treat before milo sends tillers between the drill rows. If such tillers are contacted with the spray solution, the main plant may be killed.

When applying to mile that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep

furrows. See additional instruction for the use of hooded sprayers in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop or when the leaves of the crop are growing in direct contact with weeds to be treated. Such damage shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fodder following applications of this product through hooded sprayers. Do not apply more than 1 quart of this product per year as a single hooded sprayer application.

#### Postharvest

USE INSTRUCTIONS: This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1 quart of this product per acre for control, or 1.5 pints of this product per acre for suppression.

## 8.7 Grass Seed Production

GRAZING RESTRICTIONS: Do not graze lactating dairy animals on treated areas within 7 days after application. Do not harvest grass cut for hay from treated areas for 30 days. Withdraw meat animals from treated forage at least 3 days before slaughter.

# Site Preparation

TYPES OF APPLICATIONS: Site preparation, preplant, preemergence, renovation, shielded sprayers, wiper applicators, spot treatments, creating rows in annual ryegrass.

## Preplant, Preemergence, Renovation

USE INSTRUCTIONS: This product may be applied before, during, or after planting or renovation of turf or forage grass areas grown for seed production. Applications MUST be made prior to the emergence of the crop to avoid crop injury. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

PRECAUTIONS. RESTRICTIONS: Tillage or renovation techniques such as vertical mowing, coring or slicing that disturb soil or underground plant parts should be avoided before treatment and should be delayed for 7 days after application to allow proper translocation into underground plant parts.

# Shielded sprayers

USE INSTRUCTIONS: Apply 1-3 quarts of this product as a broadcast spray in 10 to 20 gallons of water per acre to control weeds in the rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment in not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Make up to 2 treatments per year and observe a 21-day retreatment interval.

## Wiper Applications

PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators should be adjusted so that the wiper contact point is at least two (2) inches above the desirable vegetation. Weeds should be a minimum of six (6) inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions.

#### **Spot Treatments**

USE INSTRUCTIONS: Use a 1-1.5 percent solution.

## **Creating Rows in Annual Ryegrass**

USE INSTRUCTIONS: Use 16-32 fluid ounces of this product per acre mixed with water. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height. Grass that is sprayed will be destroyed.

PRECAUTIONS, RESTRICTIONS: Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended.

Grower assumes all responsibility for crop losses from misapplication.

## 8.8 Pastures

GRAZING RESTRICTIONS: Do not graze lactating dairy animals on treated areas within 7 days after application. Do not harvest grass cut for hay from treated areas for 30 days. Withdraw meat animals from treated forage at least 3 days before slaughter.

TYPES OF PASTURES: Bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, and wheatgrass.

TYPES OF APPLICATIONS: Preplant, preemergence, pasture renovation, spot treatment, wiper application.

## Preplant, Preemergence and Pasture renovation

USE INSTRUCTIONS: This product may be used to control perennial pasture species listed on this label prior to re-planting.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

# Spot treatment and Wiper application

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USE INSTRUCTIONS: This product may be applied as a spot treatment or with wiper applicators in pastures. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

# 8.9 Rangelands

TYPES OF APPLICATIONS: Postemergence

USE INSTRUCTIONS: This product will control or suppress many annual weeds growing in perennial cool and warm season grass rangelands.

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds.

Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

PRECAUTIONS, RESTRICTIONS: Use of ammonium sulfate when spraying rangeland grasses with this product is not recommended. Do not make more than one application per year. Do not graze lactating dairy animals on treated areas within 7 days after application. Do not harvest grass cut for hay from treated areas for 30 days. Withdraw meat animals from treated forage at least 3 days before slaughter.

# **Postemergence**

Apply 12-16 fluid ounces of this product to control or suppress many weeds, including downy brome, cheat grass, cereal rye and jointed goatgrass in rangelands. Apply when most mature brome plants are in early flower and before the plants including seedheads turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve, and encourages perennial grass conversion on weedy sites. Fall applications are possible, and recommended where spring moisture is usually limited and fall germination allows for good weed growth.

Apply 16 fluid ounces when the medusahead has reached the 3 leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Fire may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeat applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead dominated rangelands.

Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off.

# 8.10 Soybeans

TYPES OF APPLICATIONS: Preplant

USE INSTRUCTIONS: This product may be applied before planting soybeans. Applications must be made 15 days prior to planting of the crop. Under cold soil conditions, it is recommended to delay planting so that further time is available for the 2,4-D to dissipate from the soil.

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The following tank mixtures may be applied before planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

<b>CANOPY</b> <sup>TM</sup>	ALACHLOR	PROWL
COMMAND™	LINEX	PURSUIT™
DUAL	LOROX/LINURON	PURSUIT PLUS
DUAL II	LOROX PLUS	SCEPTER™
FRONTIER	MICRO-TECH	SENCOR <sup>TM</sup> /LEXONE <sup>TM</sup>
FUSION™		SQUADRON™
GEMINI™	PREVIEW™	TURBO™

For improved burndown, this product may be tank-mixed with 2,4-D or 2,4-DB. See the 2,4-D label for intervals between application and planting.

PRECAUTIONS, RESTRICTIONS: In treated fields, plant soybean seed as deep as practical, but not less than 1 inch deep. Adjust the planter if necessary to ensure that the planted seed is adequately covered. Do not make more than one application per season regardless of the application rate used. Do not apply more than 2 quarts per acre. Do not use on sandy soils with less than 1% organic matter. Do not allow livestock grazing or harvest hay, forage, or fodder from treated fields.

# 9.0 ANNUAL WEEDS RATE TABLES (Alphabetically by Species)

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated) area.

For those rates less than 48 fluid ounces per acre, this product may be used up to 48 fluid ounces per acre where heavy weed densities exist.

RT Master plus other labeled herbicides: For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in labeled tank mixtures.

Tank mixing with soil residual herbicides when using rates of 1 quart per acre or less may result in reduced performance. Follow specific rate recommendations when tank mixing this product.

# ANNUAL WEEDS RATE TABLE

		(Fluid (					
WEED SPECIES.	12	16	24	32	48		
	Maximum Height/Length						
Barley	12"	<u>-</u>		-	-		
Barnyardgrass	-	-	6"	12"	-		
Bluegrass, annual	6"	-	•	-	-		
Bluegrass, bulbous	-	6"	-	-	-		

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Brome, downy 1,2	~		6"	12"	-	-
Buckwheat, wild <sup>3</sup>	-			1"	2"	-
Buttercup	· -		6"	12"	-	-
Cheat <sup>2</sup>	-	•	6"	-	-	-
Chickweed	-		6"	-	· •	-
Cocklebur	-	,	12"	-	-	-
Corn	-		6"	-	-	-
Crabgrass			6"	12"		-
Dwarfdandelion	-		12"	-	- ·	-
Fall panicum	-		12"	-		
Falseflax, smallseed	-		12"	•	-	-
Field pennycress	-		6"	-	-	-
Filaree	<u>-</u>		-	-	-	12"
Fleabane, hairy	-		6"	<b>-</b> .	-	
(Conyza bonariensis)						
Florida pusley	-	-	<b>-</b>	-	12"	
	6" ·	-	12"	-	12"	
Florida pusley	6" ´	-	- 12" 6"	12"	12"	
Florida pusley Foxtail, green	6" ´			12"	12"	-
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow	6"	-	6"	12"	12" - -	-
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed	6" -		6" 6"	12"	12"	
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common	6"	-	6" 6"	12"	12"	
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common  Henbit  Horseweed/Marestail	6"	-	6" 6" 6"	12"	12"	
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common  Henbit  Horseweed/Marestail  (Conyza canadensis)	6"		6" 6" 6" 6"	12" 3-6"	12" 12"	
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common  Henbit  Horseweed/Marestail (Conyza canadensis)  Johnsongrass, seedling	6"	- -	6" 6" 6" 6"	- - -		
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common  Henbit  Horseweed/Marestail (Conyza canadensis)  Johnsongrass, seedling  Kochia 4	6"	-	6" 6" 6" 6" 12"	- - -		
Florida pusley  Foxtail, green  Foxtail, giant, bristly, yellow  Goatgrass, jointed  Groundsel, common  Henbit  Horseweed/Marestail (Conyza canadensis)  Johnsongrass, seedling  Kochia 4  Lambsquarters	6"		6" 6" 6" 6" 12"	- - - 3-6"	- - - - 12"	

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Morningglory (Ipomoea spp.)	-	2"	<u>-</u>	-	-
Mustard, blue	6"	-	-	· <u>-</u>	-
Mustard, tansy	6"	-	-	<b>-</b> .	-
Mustard, tumble	6"	<b>-</b>	-	-	-
Mustard, wild	6"	<b>-</b> .	-	-	-
Pigweed		12"	-	-	-
Rye, volunteer/cereal <sup>2</sup>	-	6"	18"	-	
Ryegrass, Italian	-	-	-	6"	12"
Sandbur, field	-	6"	12"	-	-
Shattercane	12"	-	-	-	-
Shepherd's-purse	. <del>-</del>	6"		<b>-</b>	-
Sowthistle, annual	- '	6 <b>"</b> .	-	-	-
Spurge, annual	-	6"	-	-	-
Stinkgrass	-	-	12"	-	-
Texas panicum	. <del>-</del>	12"	·	-	-
Thistle, Russian	-	-	6"	12"	-
Wheat <sup>2</sup>	-	6"	18"	-	-
Wild oats	-	12"	-	-	-
Witchgrass	-	-	12"	-	-

<sup>&</sup>lt;sup>1</sup> For control of Downy brome in no-till systems, use 24 fluid ounces per acre.

# 9.1 Annual Weeds -- Tank Mixtures with 2,4-D, Banvel<sup>TM</sup> or Tordon 22K

12 to 24 fluid ounces of this product plus 0.25 pound a.i. of Banvel or 0.4 pound a.e. of 2,4-D or 1 to 2 ounces of Tordon 22K per acre will control the following weeds with the maximum height or length indicated: 6" -- prickly lettuce, marestail/horseweed (*Conyza canadensis*), morningglory (*Ipomoea spp.*),

<sup>&</sup>lt;sup>2</sup> Performance is better if application is made before this weed reaches the boot stage of growth.

<sup>&</sup>lt;sup>3</sup> Use 24 ounces per acre of this product to control wild buckwheat in the cotyledon to 2-leaf stage. Use 32 ounces per acre to control 2 to 4-leaf wild buckwheat. For improved control of wild buckwheat over 2 inches in size, use sequential treatments of 32 ounces followed by 32 ounces of this product or refer to the tank mix section of this label.

<sup>&</sup>lt;sup>4</sup> Treatment kochia in the puffball stage will result in reduced control.

kochia (Banvel only); wild buckwheat (Tordon 22K only); 12" -- cocklebur, lambsquarters, pigweed, Russian thistle.

12 fluid ounces of this product plus 0.25 pound a.i. of Banvel or 0.4 pound a.e. of 2,4-D per acre will control foxtail up to 18".

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel or Tordon 22K is applied within 45 days of planting.

# 9.2 Annual Weeds -- Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1 pound atrazine per acre.

16 ounces of this product plus 1 to 2 pounds of atrazine per acre will control the following weeds: Barnyardgrass (requires 26 ounces for control), Downy brome, Green foxtail, Lambsquarters, Prickly lettuce (*Lactuca serriola*), Tansy mustard, Pigweed, Field sandbur (*Cenchrus spp.*), Stinkgrass, Russian thistle (*Salsola kali*), Volunteer Wheat, Witchgrass (*Panicum capillare*) and Kochia (add 4 fluid ounces Banvel for control).

9.3 Sponge Wick Applicators-Apply a 33 percent solution mixed in water.

Porous-Plastic Applicators--Apply solutions ranging from 33 to 100 percent mixed in water.

When applied as recommended using rope or sponge wick applicators, or porous-plastic applicators, this product CONTROLS the following weeds:

Corn, volunteer Shattercane
Panicum, Texas Sicklepod
Rye, common Spanishneedles

When applied as recommended, this product SUPPRESSES the following weeds:

Beggarweed, Florida Ragweed, giant
Dogbane, hemp Smutgrass
Dogfennel Sunflower
Pigweed, redroot Thistle, musk
Ragweed, common Velvetleaf

# 9.4 Hand-Held and High-Volume Equipment

For control of weeds listed in the annual weeds rate tables, apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution.

When using application methods which result in less than complete coverage, use a 5 percent solution.

# 10.0 PERENNIAL WEEDS RATE TABLE (Alphabetically by Species)

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated) area.

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Tank-mixing with residual herbicides when using the 1 quart per acre rate will result in reduced control.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

Unless otherwise stated, allow 7 or more days after application before tillage.

Best results are obtained when soil moisture is adequate for active weed growth.

Weed Species	Rate (QT/A)	Water Volume (GPA)	Hand-Held % Solution	Comments
Alfalfa	1-2	3-10	2%	Make applications after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.
Bindweed, field	0.5-5	3-20	2%	Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.
				For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.e. of 2,4-D or 0.25 pounds a.i. of Banvel in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.
Blueweed, Texas	3-5	3-40	2%	Apply 4 to 5 quarts of this product per acre. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.
Bromegrass, smooth	1-2	3-40	2%	Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.
Johnsongrass	0.5-3	3-40	1%	In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of

this product when applying 10 to 40 gallons of water per acre. On farmstead sites or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage.

For burndown of Johnsongrass, apply 1 pint of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.

Spot treatment (partial control or suppression)--Apply a 1 percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Nightshade, silverleaf	2	3-10	2%
Quackgrass	1-3	3-40	2%
,			
: ·			

Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.

In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 1 quart of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 2 quarts of this product. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results.

In pastures, sods or farmstead sites where deep tillage does not follow application: Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.

Ryegrass,	•	•	
perennial	1-3	3-40	1%

In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. On farmstead sites or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

				For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost.
Spurge, leafy		3-10	2%	For suppression, apply 16 fluid ounces of this product plus 0.4 pound a.e. 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.
Thistle, Canada	2-3	3-40	2%	Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.
		•		For suppression, apply 1 quart of this product in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.
				NOTE: Mixtures of 2,4-D with glyphosate products may result in reduced control of this weed. Users should consider local conditions and previous local recommendations when applying this product. Based on historical performance, users in the Pacific Northwest are advised to avoid use where this weed is the dominant species being treated.
Wheatgrass, western	2-3	3-40	2%	For best results, apply when most plants have reached the boot-to-head stage of growth.

<sup>10.1</sup> Hand-held or high volume equipment: For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle. When using application methods which result in less than complete coverage, use a 5 percent solution for perennial weeds and a 5 to 10 percent solution for woody brush and trees.

10.2 Sponge Wick Applicators- Apply a 33 percent solution mixed in water.

For Porous-Plastic Applicators--Apply solutions ranging from 33 to 100 percent mixed in water.

When applied as recommended, this product CONTROLS Bristly Starbur.

When applied as recommended, this product SUPPRESSES the following weeds:

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Bermudagrass Dogbane, hemp Guineagrass Johnsongrass Milkweed Nightshade, silverleaf Thistle, Canada Vaseygrass

#### 11.0 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

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

To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

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