

66222-176

9/26/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Kristen Knox
MANA Crop Protection
3120 Highwoods Blvd
Suite 100
Raleigh, NC 27604

9.26.12

Subject Label Amendment / Glyphogan Plus Herbicide
EPA Reg No 66222-176

Dear Ms Knox

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable

Submit one copy of the final printed label for the record before you release the product for shipment. A stamped copy of the label is enclosed for your records. This master label supersedes all previously accepted labels. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", written over a horizontal line.

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

MASTER LABEL

Glyphogan™ Plus Herbicide

Non selective broad spectrum weed control for many cropping systems farmsteads and Conservation Reserve Program acres Selective broad spectrum weed control in Roundup Ready® crops

ACTIVE INGREDIENT	% BY WT
*Glyphosate	
N (phosphonomethyl)glycine in the form of its isopropylamine salt	41.0%
OTHER INGREDIENTS	<u>59.0%</u>
	100.0%

*Contains 480 grams per liter or 4 pounds per U S gallon of the active ingredient glyphosate in the form of its isopropylamine salt Equivalent to 356 grams per liter or 3 pounds per U S gallon of the acid glyphosate

KEEP OUT OF REACH OF CHILDREN

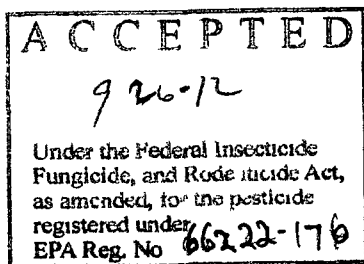
CAUTION

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> • 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 • Call a poison control center or doctor for treatment advice
IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor • Do not induce vomiting unless told to do so by a poison control center or doctor • Do not give any liquid to the person • Do not give anything by mouth to an unconscious person
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air • If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to-mouth if possible • Call a poison control center or doctor for further treatment advice
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 20 minutes • Call a poison control center or doctor for further treatment advice
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact PROSAR at 1 877-250-9291 for emergency medical treatment information	

NET CONTENTS

EPA Reg No 66222-176
EPA Est No

Manufactured for
Makhteshim Agan of North America Inc
3120 Highwoods Blvd Suite 100
Raleigh NC 27604



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation Harmful if swallowed or inhaled Avoid contact with eyes skin or clothing
Avoid breathing vapor or spray mist Wash thoroughly with soap and water after handling

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)

Applicators and other handlers must wear

- long-sleeved shirt and long pants
- shoes plus socks
- protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables use
detergent and hot water Keep and wash PPE separately from other laundry

ENGINEERING CONTROLS STATEMENT 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

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

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 cleaning equipment or disposing of equipment washwaters

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
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 4 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

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.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the entire label before using this product. Use only according to label instructions.

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

PRODUCT INFORMATION (How This Product Works)

Product Description This product is a postemergent systemic herbicide with no soil residual activity. It is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush, and trees. It is formulated as a water-soluble liquid. No additional surfactants, additives containing surfactant buffering agents, or pH adjusting agents are needed or recommended. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Do not add surfactants, additives containing surfactants, buffering agents, or pH adjusting agents to this product. Ammonium sulfate may be used. See the MIXING section of this label for instructions.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

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 of Weeds Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the ANNUAL WEEDS RATE TABLE, PERENNIAL WEEDS RATE TABLE, and the WOODY BRUSH AND TREES RATE TABLE for recommendations for specific weeds.

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

Do not treat weeds under poor growing conditions such as drought stress disease or insect damage as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Cultural Considerations 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.

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

Spray Coverage For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Mode of Action The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to formation of specific amino acids.

No Soil Activity 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.

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.

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 exceed 8 quarts of this product per acre per year. For applications in non-crop sites, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year.

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.

MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

NOTE 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.

Mixing with Water

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 specified amount of this product near the end of the filling process and 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

Tank Mixing Procedure

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 Add individual formulations to the spray tank as follows wettable powder flowable emulsifiable concentrate drift control additive and water-soluble liquid

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 Ensure that the specific tank mixture product is registered for application at the desired site

Refer to the TANK MIXING section under the PRODUCT INFORMATION section for additional precautions

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

Desired Volume	Amount of Glyphogan Plus Herbicide					
	0.5%	1%	1.5%	2%	5%	10%
1 gal	0.7 oz	1.3 oz	2 oz	2.7 oz	6.5 oz	13 oz
25 gal	1 pt	1 qt	1.5 qt	2 qt	5 qt	10 qt
100 gal	2 qt	1 gal	1.5 gal	2 gal	5 gal	10 gal

2 tablespoons = 1 fluid ounce

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

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 dry ammonium sulfate is completely dissolved in the spray tank before adding herbicides Thoroughly rinse the spray system with clean water after use to reduce corrosion

NOTE When using ammonium sulfate apply this product at rates specified in this label Lower rates will result in reduced performance

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 dilutions Use colorants or dyes according to the manufacturer s recommendations

Drift Control Additives

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

APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system

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

*This product is not registered in California or Arizona for use in mistblowers

Selective Equipment Recirculating sprayers shielded and hooded sprayers wiper applicators and sponge bars

Injection Systems Aerial or ground injection sprayers

Controlled Droplet Applicator (CDA) Hand held or boom mounted applicators which produce a spray consisting of a narrow range of droplet sizes

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES

SPRAY DRIFT MANAGEMENT

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

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 The likelihood of injury occurring from the use of this product increases when winds are gusty as wind velocity increases when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift When spraying avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE

AERIAL SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the AERIAL DRIFT REDUCTION ADVISORY SECTION OF THIS LABEL.

AERIAL DRIFT REDUCTION ADVISORY

This section is advisory in nature and does not supersede the mandatory label requirements.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see the **Wind**, **Temperature and Humidity**, and **Temperature Inversions** sections of this label).

Controlling Droplet Size

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.
- **Pressure** Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle orientation** Orienting nozzles so that the spray is released backwards, parallel to the airstream, will produce larger droplets than other orientations and is the recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle type** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height Applications must not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

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)

Wind

Drift potential is lowest between wind speeds of 2 to 10 miles per hour However many factors including droplet size and equipment type determine drift potential at any given speed Application should be avoided below 2 miles per hour due to variable wind direction and high inversion potential **NOTE** Local terrain can influence wind patterns Every applicator should be familiar with local wind patterns and how they affect drift

Temperature and Humidity

When making applications in low relative humidity set up equipment to produce larger droplets to compensate for evaporation Droplet evaporation is most severe when conditions are both hot and dry

Temperature Inversions

Applications must not occur during a temperature inversion because drift potential is high Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain in a concentrated cloud This cloud can move in unpredictable directions due to the light variable winds common during inversions Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind They begin to form as the sun sets and often continue into the morning Their presence can be indicated by ground fog however if fog is not present inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing

Sensitive Areas

The product must only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas bodies of water known habitat for threatened or endangered species non target crops) is minimal (e.g. when wind is blowing away from the sensitive areas)

Aerial Equipment

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

Use the specified rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label Unless otherwise specified do not exceed 1 quart per acre 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 application rates and further instructions

This product plus dicamba tank mixtures may not be applied by air in California

Avoid direct application to any body of water

AVOID DRIFT – DO NOT APPLY DURING LOW LEVEL INVERSION CONDITIONS WHEN WINDS ARE GUST OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED WOT WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED Coarse sprays are less likely to drift therefore do not use nozzles or nozzle configurations which dispense spray as fine spray droplets Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure Ensure uniform application - To avoid streaked uneven or overlapped application use appropriate marking devices

Aircraft 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**

IS MOST SUSCEPTIBLE The maintenance of an organic coating (paint) which meets aerospace specification MIL-C 38413 may prevent corrosion

AERIAL APPLICATION IN CALIFORNIA ONLY

Aerial applications of this product are allowed in the following situations

- 1 In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops
- 2 In alfalfa and pasture renovation applications
- 3 Over the top applications in Roundup Ready® corn and cotton
- 4 Preharvest in alfalfa corn cotton wheat Roundup Ready corn and Roundup Ready cotton

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application

When tank mixing this product with 2 4 D for aerial applications only 2 4 D amine formulations may be used This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only

DO NOT EXCEED THE FOLLOWING MAXIMUM RATES WHEN MAKING APPLICATIONS BY AIR

1 quart per acre prior to harvest	2 quarts per acre
Alfalfa	Fallow
Corn	Reduced Tillage Systems
Roundup Ready corn *	Alfalfa and Pasture Renovation
Cotton	
Roundup Ready cotton *	
Wheat	

* This restriction also applies to over the top applications in these crops

Aerial Equipment

Use the specified rates of this product in 3 to 15 gallons of water per acre Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop and/or near other desirable vegetation or annual crops

- 1 Do not apply within 100 feet of all desirable vegetation or crop(s)
- 2 If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s) do not apply within 500 feet of the desirable vegetation or crop(s)
- 3 Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet
- 4 Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist

AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY (From February 15 through March 31 Only)

Applicable Area

This supplement only applies to the area contained inside the following boundaries within Fresno County California

- North Fresno County line
- South Fresno County line
- East State Highway 99
- West Fresno County line

Product Information

Always read and follow the label directions and precautionary statements for all products used in the aerial application

Observe the following directions to minimize off-site movement during aerial application of this product Minimization of off site movement is the responsibility of the grower Pest Control Advisor and aerial applicator

Written Recommendations

A written recommendation MUST be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application This written recommendation MUST state the proximity of surrounding crops and that conditions of each manufacturer s product label and this label have been satisfied

Aerial Applicator Training and Equipment

Aerial application of this product is limited to pilots who have successfully completed a Fresno County Agricultural Commissioner and California Department of Pesticide Regulation approved training program for aerial application of herbicides All aircraft must be inspected critiqued in flight and certified at a Fresno County Agricultural Commissioner approved fly in Test and calibrate spray equipment at intervals sufficient to insure that proper rates of herbicides and adjuvants are being applied during commercial use Applicator must document such calibrations and testing Demonstration of performance at Fresno County Agricultural Commissioner approved fly ins constitutes such documentation or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner

Applications at Night—Do not apply this product by air earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset without prior permission from the Fresno County Agricultural Commissioner

To report known or suspected misuse of this product call 1 800-332-3111

For additional information on the proper aerial application of this product call 916 784-1718

Note For aerial application from April 1 through February 14 refer to the AERIAL APPLICATION IN CALIFORNIA ONLY section of this label

AERIAL APPLICATION IN ARKANSAS ONLY

AVOID DRIFT DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

Use the specified rate of this product in 3 to 15 gallons of water per acre

Use sufficient carrier volume and appropriate equipment set up to form droplets large enough to avoid drift potential Coarse droplets in the 300 to 500 (VMD) micron range are recommended

Applications should typically be made with the nozzle release point at 8 to 15 feet above the top of the target plants unless a greater height is required for aircraft safety

The distance of the outermost nozzles on the boom must not exceed 75 percent of the length of the wingspan or rotor In many cases reducing this distance to 65 percent of the length of the wingspan or rotor will improve drift control without affecting the swath width

Nozzles must always discharge backward parallel with the air stream and never discharge downwards more than 45 degrees on fixed wing aircraft or forward of the prevailing airflow on rotary winged aircraft Avoid the use of nozzles with wide angle discharge

Do not apply this product when winds are in excess of 10 miles per hour

Do not apply when there is a low level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves These conditions may occur when wind speeds are less than 2 miles per hour

Use the following guidelines when applications are made near crops or other desirable vegetation

- 1 Do not apply within 100 feet of any desirable vegetation or crops
- 2 If wind up to 5 miles per hour is blowing toward desirable vegetation or crops do not apply within 500 feet upwind of the desirable vegetation or crops
- 3 Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet

AERIAL APPLICATION IN ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI AND TENNESSEE ONLY

This product controls annual and perennial weeds listed on this label prior to planting or emergence of corn cotton rice sorghum and soybeans prior to the harvest of cotton and soybeans and following the harvest of any crop in the fall via aerial applications in these locations

Aerial applications of this product may be made in fallow systems and conventional reduced and zero tillage systems. For applications via aerial equipment use the specified rates of this product in 3 to 10 gallons of water per acre. Do not exceed a rate of 3 quarts per acre. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser velocities will allow spray drift to occur.

GROUND BROADCAST EQUIPMENT

Use the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment use flat spray nozzles. Check for even distribution of spray droplets.

HAND HELD OR HIGH VOLUME EQUIPMENT

Apply to foliage of vegetation to be controlled. For applications made on a spray to-wet basis spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only. For control of weeds listed in the ANNUAL WEEDS RATE TABLE 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.

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 annual and perennial weeds and a 5 to 10 percent solution for woody brush and trees.

SELECTIVE EQUIPMENT

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

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION

Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desirable vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

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.

Recirculating Spray System

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

Shielded and Hooded Applicators

A hooded sprayer is a type of shielded applicator where the spray pattern is fully enclosed including top, sides, front and back, thereby shielding the crop from the spray solution. 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**

When applying to crops 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. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION**

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. The spray hoods must be operated on the ground or skimming across the ground. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

These procedures will reduce the 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 miles per hour to avoid bouncing of the spray hoods.
- Maximum wind speed: 10 miles per hour.
- Use low drift nozzles that provide uniform coverage within the treated area.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam, or splatter of the herbicide solution may contact the crop and cause discoloration, stunting, or destruction.

Wiper Applicators and Sponge Bars

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution. Wipers over the top of crops may be used only when specifically recommended in this product's labeling.

When applied under the conditions described in the following paragraphs, this product **CONTROLS** many weeds including volunteer corn, Texas panicum, common rye, shattercane, sicklepod, spanishneedles, and bristly starbur, and **SUPPRESSES** many weeds including Florida beggarweed, Bermudagrass, hemp dogbane, dogfennel, guineagrass, johnsongrass, milkweed, silverleaf nightshade, redroot pigweed, common ragweed, giant ragweed, smutgrass, sunflower, Canada thistle, musk thistle, vaseygrass, and velvetleaf.

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed. 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 miles per hour. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

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.

Do not use wiper equipment when weeds are wet.

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.

Do not add surfactant to the herbicide solution.

For Rope or Sponge Wick Applicators—Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this section.

For Porous Plastic Applicators—Solutions ranging from 33 to 100 percent of this product in water may be used in porous plastic wiper applications.

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. Do not mix this product with the concentrate of other products when using injection systems.

CDA EQUIPMENT

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount specified in this label when applied by conventional broadcast equipment. For vehicle mounted CDA equipment apply 3 to 15 gallons of water per acre.

For the control of annual weeds with hand held CDA units apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 miles per hour (1 quart per acre). For the control of perennial weeds apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 miles per hour (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern that is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation as damage or destruction may result.

1 0 ANNUAL AND PERENNIAL CROPS

NOTE THIS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED CROPS WITHIN SECTION 1 BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS AND ADDITIONAL RESTRICTIONS.

See the ROUNDUP READY CROPS section of this label or separately published Supplemental Labeling for instructions for treating Roundup Ready crops.

USE INSTRUCTIONS

Unless otherwise specified, applications may be made to control any of the weeds listed in the ANNUAL WEEDS RATE TABLE, PERENNIAL WEEDS RATE TABLE and the WOODY BRUSH AND TREES RATE TABLE. For any crop not listed in this label, applications must be made at least 30 days prior to planting.

For broadcast postemergent treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.

Post directed hooded sprayers and wiper equipment capable of preventing all crop contact with herbicide solutions may be used in mulched or unmulched row middles after crop establishment. Where specifically noted below, wipers may also be used above certain crops to control tall weeds. Refer to the SELECTIVE EQUIPMENT section of this label for essential precautions when using hooded sprayers or wipers to avoid crop injury caused by leakage of spray mists or dripping onto crops. Crop injury is possible with these applications and shall be the sole responsibility of the applicator.

When applying this product prior to transplanting crops into plastic mulch, residues may be removed from the plastic by 0.5 inches of water via sprinkler irrigation or natural rainfall.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing 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 glyphosate or sulfosate containing products does not exceed stated maximum use rate.

1 1 Cereal and Grain Crops

LABELED CROPS: Barley, Buckwheat, Millet (pearl proso), Oats, Rice, Rye, Teosinte, Triticale, Wheat (all types) and Wild rice.

RESTRICTIONS: Do not treat rice fields or levees when field contains water.

TYPES OF APPLICATIONS Preplant preemergence at planting Red Rice Control Prior to Planting Rice (Texas Only) Spot Treatment (except rice) post-harvest preharvest (wheat only) Wiper Applicators (Wheat Only)

Preplant, Preemergence, At Planting

USE INSTRUCTIONS This product may be applied before during or after planting of cereal crops Applications must be made prior to emergence of the crop

Spot Treatment (Except Rice)

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

RESTRICTIONS 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 Take care to avoid drift or spray outside target area for the same reason

Wiper Applicators (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 and when the rye is at least 6 inches above the wheat crop

RESTRICTIONS Allow at least 35 days between application and harvest Do not use roller applicators

Preharvest (Wheat Only)

USE INSTRUCTIONS This product provides weed control when applied prior to harvest of wheat Apply after the hard dough stage of grain (30 percent or less grain moisture) and at least 7 days prior to harvest Wheat stubble may be grazed immediately after harvest

This product may be applied using either aerial or ground spray equipment For ground applications apply this product in 10 to 20 gallons of water per acre For aerial applications apply this product in 3 to 10 gallons of water per acre

RESTRICTIONS Do not apply more than 1 quart of this product per acre Preharvest application is not recommended for wheat grown for seed as a reduction in germination or vigor may occur

Post Harvest

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

RESTRICTIONS For any crop not listed on this label applications must be made at least 30 days prior to planting the next crop Do not harvest or feed treated vegetation for 8 weeks following application

Red Rice Control Prior to Planting Rice (Texas Only)

USE INSTRUCTIONS Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre Flush fields prior to application to obtain uniform germination and stand of red rice Make application when the majority of the red rice plants are in the 2 leaf stage and no more than 4 inches tall Red rice plants with less than 2 true leaves may be only partially controlled

RESTRICTIONS Avoid spraying during low humidity conditions as reduced control may result Do not treat rice fields or levees when the fields contain floodwater Do not re flood treated fields for 8 days following application

Nonselective Control of Listed Annual Weeds in Small Grain Cropping Systems (South Dakota Only)

USE INSTRUCTIONS Apply by ground application in 5 to 10 gallons of water per acre For aerial applications apply in 2 to 3 gallons of water per acre

RESTRICTIONS The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser wind velocities will allow spray drift to

occur Adjust boom height on ground equipment to prevent streaked overlapped or uneven applications Avoid spraying when weeds are subject to moisture stress when dust is on foliage or when straw canopy covers the weeds

1 2 Corn

TYPES OF CORN Field corn Seed corn Sweet corn and Popcorn For Roundup Ready® corn see the ROUNDUP READY® CROPS section of this label

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

Preplant, Preemergence, At Planting

USE INSTRUCTIONS This product may be applied alone or in a tank mixture before during or after planting corn Applications must be made prior to emergence of the crop

TANK MIXTURES This product may be tank mixed with the following products provided that the specific product is registered for application before during or after planting corn in conventional tillage systems into a cover crop established sod or in previous crop residue Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre For improved burndown this product may be tank mixed with 2 4-D or dicamba

2 4 D		Lorox®
Atrazine	Frontier®	Marksman®
Banvel®	Guardman®	Micro Tech®
	Harness®	
	Harness® XTRA	Prowl®
Cyanazine	Harness® XTRA 5 6L	Simazine
Broadstrike®	Lariat®	Surpass®
Bullet®	Lasso®/Alachlor	
	Linex®	Topnotch®

Note these tank mixes are not registered in California

For difficult to control annual 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 these tank mixtures For other labeled annual weeds apply 1 to 1 5 pints of this product per acre when weeds are less than 6 inches tall and 2 to 3 pints when weeds are over 6 inches tall

RESTRICTIONS Applications of 2 4 D or dicamba must be made at least 7 days prior to planting corn

For Southern states do not apply in nitrogen solutions to tough to control grasses such as barnyardgrass fall panicum broadleaf signalgrass annual ryegrass and any perennial weeds The area covered by this recommendation includes from Route 50 South in Illinois and Indiana and the following states Alabama Arkansas Delaware Florida Georgia Kentucky Louisiana Maryland Mississippi New Jersey North Carolina Oklahoma South Carolina Tennessee Texas Virginia and West Virginia Refer to the map under ANNULA WEEDS RATE TABLE

Hooded Sprayers

USE INSTRUCTIONS This product may be used through hooded sprayers for weed control between the rows of all types of corn (including field corn sweet corn and popcorn) Only hooded sprayers that completely enclose the spray pattern may be used See additional instruction for the use of hooded sprayers in the APPLICATION EQUIPMENT AND TECHNIQUES and SELECTIVE EQUIPMENT sections of this label

RESTRICTIONS Corn must be at least 12 inches tall measured without extending leaves Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage Such damage shall be the sole responsibility of the applicator Do not apply more than 1 quart of this product per acre for each

application and no more than 3 quarts per acre per year for hooded sprayer applications Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers 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

Spot Treatment

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

RESTRICTIONS 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 Take care to avoid drift or spray outside target area for the same reason

Preharvest

USE INSTRUCTIONS Make applications 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

RESTRICTIONS Allow a minimum of 7 days between application and harvest Preharvest application is not recommended for corn grown for seed as a reduction in germination or vigor may occur

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

RESTRICTIONS Do not harvest or feed treated vegetation for 8 weeks following application

1.3 Cotton

TYPES OF APPLICATIONS Preplant preemergence at-planting hooded sprayer selective equipment spot treatment preharvest For Roundup Ready® cotton see the ROUNDUP READY CROPS section of this label

Preplant, Preemergence, At-Planting

USE INSTRUCTIONS This product may be applied alone or in tank mixtures before during or after planting cotton Applications must be made prior to emergence of the crop

Hooded Sprayer, Selective Equipment

USE INSTRUCTIONS This product may be applied through hooded sprayers recirculating sprayers shielded applicators or wiper applicators in cotton Allow at least 7 days between application and harvest

RESTRICTIONS See the APPLICATION EQUIPMENT AND TECHNIQUES and SELECTIVE EQUIPMENT sections of this label for information on proper use and calibration of this equipment

Spot Treatment

USE INSTRUCTIONS For spot treatments apply this product prior to boll opening of cotton

RESTRICTIONS Do not treat more than 10 percent of the total field area to be harvested The crop receiving spray in treated area will be killed Take care to avoid drift or spray outside target area for the same reason

Preharvest

USE INSTRUCTIONS This product provides weed control and cotton regrowth inhibition when applied prior to harvest of cotton For weed control apply at rates given in the ANNUAL WEEDS RATE TABLE PERENNIAL WEEDS RATE TABLE and the WOODY BRUSH AND TREES RATE TABLE of this label For cotton regrowth inhibition apply 1 pint to 2 quarts of this product per acre

This product may be applied using either aerial or ground spray equipment For ground applications apply this product in 10 to 20 gallons of water per acre For aerial applications apply this product in 3 to 10 gallons of water

per acre Apply after sufficient bolls have developed to produce the desired yield of cotton Applications made prior to this time could affect maximum yield potential

TANK MIXTURES This product may be tank mixed with Def® 6 Folex® or Prep®/Setup™ to provide additional enhancement of cotton leaf drop

RESTRICTIONS Allow a minimum of 7 days between application and harvest of cotton Do not feed or graze treated cotton forage or hay following preharvest applications Do not apply more than 1 quart of this product by air Do not apply more than 2 quarts of this product per acre by ground Preharvest application is not recommended for cotton grown for seed as a reduction in germination or vigor may occur

1 4 Fallow Systems

TYPES OF APPLICATIONS Chemical fallow Preplant fallow beds Aid-to tillage

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 and dicamba may be used 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 dicamba is applied within 45 days of planting

RESTRICTIONS Do not apply dicamba tank mixtures by air in California For any crop not listed on this label applications must be made at least 30 days prior to planting

Preplant Fallow Beds

USE INSTRUCTIONS This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label For any crop not listed on this label applications must be made at least 30 days prior to planting This product will control weeds listed in the ANNUAL WEEDS RATE TABLE PERENNIAL WEEDS RATE TABLE and the WOODY BRUSH AND TREES RATE TABLE sections of this label

TANK MIXTURES In addition 12 fluid ounces of this product plus 2 to 3 fluid ounces of Goal™ 2XL/Galigan 2E per acre will control the following weeds with the maximum height or length indicated 3 - common cheeseweed chickweed groundsel 6 - London rocket shepherdspurse

16 Fluid ounces of this product plus 2 to 3 fluid ounces of Goal 2XL/Galigan 2E per acre will control the following weeds with the maximum height or length indicated 6 - common cheeseweed groundsel marestalk (*Conyza canadensis*) 12 - chickweed London rocket shepherdspurse

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 For any crop not listed on this label applications must be made at least 30 days prior to planting 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

RESTRICTIONS Tank mixtures with residual herbicides may result in reduced performance

1 5 Grain Sorghum (Milo)

TYPES OF APPLICATIONS Preplant preemergence at planting spot treatment wiper applicators preharvest post harvest

Preplant, Preemergence, At Planting

USE INSTRUCTIONS This product may be applied alone or in tank mixture before during or after planting grain sorghum Applications must be made prior to emergence of the crop

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 AND SPONGE BARS in the SELECTIVE EQUIPMENT section of this label

RESTRICTIONS For spot treatment do not treat more than 10 percent of the total field area to be harvested The crop receiving spray in treated area will be killed Take care to avoid drift or spray outside target area for the same reason

For wiper applicators allow at least 40 days between application and harvest Do not use roller applicators Do not feed or graze treated milo fodder Do not ensile treated vegetation

Preharvest

USE INSTRUCTIONS Make applications at 30 percent grain moisture or less

RESTRICTIONS Do not apply more than 2 quarts of this product per acre Allow a minimum of 7 days between application and harvest Preharvest application is not recommended for sorghum grown for seed as a reduction in germination or vigor may occur The use of this product for preharvest grain sorghum (milo) is not registered in California

Post Harvest

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

RESTRICTIONS Do not harvest or feed treated vegetation for 8 weeks following application

1 6 Herbs

LABELED CROPS Peppermint Spearmint

Spot Treatments (Peppermint and Spearmint Only)

USE INSTRUCTIONS This product may be used as a spot treatment in spearmint and peppermint Apply spot treatments on a spray to wet basis with hand held equipment such as backpack and knapsack sprayers pump up pressure sprayers hand guns hand wands or any other hand held or motorized spray equipment used to direct the spray solution to a limited area

RESTRICTIONS Allow at least 7 days between application and harvest Further applications may be made in the same area at 30 day intervals In spot treatment applications no more than 10 percent of the total field area to be harvested should be treated at one time The crop receiving spray in the treated area will be killed Take care to avoid drift or spray outside the target area for this reason

1 7 Soybeans

TYPES OF APPLICATIONS Preplant preemergence at planting spot treatment preharvest selective equipment hooded sprayers For Roundup Ready ® soybeans see the ROUNDUP READY CROPS section of this label

Preplant, Preemergence, At-Planting

USE INSTRUCTIONS This product may be applied alone or in a tank mixture before during or after planting soybeans Applications must be made prior to emergence of the crop Tank mixtures of this product with any of

the following products may be applied in conventional tillage systems into a cover crop established sod or in previous crop residue

Canopy ®	Lasso ®/Alachlor	Prowl ®
Command ®	Linex®	Pursuit ®
	Lorox ®/Linuron	Pursuit ® Plus
		Scepter ®
Frontier ®	Micro-Tech ®	Sencor ®/Lexone ®/Metribuzin
Fusion ®		Squadron ®

Note The tank mix recommendations in this section are not registered in California

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

For difficult to control annual 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 these tank mixtures For other labeled annual weeds apply 1 to 1 5 pints of this product per acre when weeds are less than 6 inches tall and 2 to 3 pints when weeds are over 6 inches tall

Spot Treatment

USE INSTRUCTIONS For spot treatments apply this product prior to initial pod set in soybeans

RESTRICTIONS Do not treat more than 10 percent of the total field area to be harvested The crop receiving spray in treated area will be killed Take care to avoid drift or spray outside target area for the same reason

Preharvest

USE INSTRUCTIONS This product provides weed control when applied prior to harvest of soybeans

Apply at rates given in the ANNUAL WEEDS RATE TABLE PERENNIAL WEEDS RATE TABLE and the WOODY BRUSH AND TREES RATE TABLE This product may be applied using either aerial or ground spray equipment For ground applications apply this product in 10 to 20 gallons of water per acre For aerial applications apply this product in 3 to 10 gallons of water per acre Apply after pods have set and lost all green color Care should be taken to avoid excessive seed shatter loss due to ground application equipment

RESTRICTIONS Do not apply more than 6 quarts per acre of this product for preharvest applications Do not apply more than 1 quart per acre of this product by air Allow a minimum of 7 days between application and harvest of soybeans Do not graze or harvest treated crop for livestock feed within 25 days of last preharvest application Preharvest application is not recommended for soybeans grown for seed as a reduction in germination or vigor may occur

Selective Equipment

USE INSTRUCTIONS This product may be applied through recirculating sprayers shielded applicators hooded sprayers over-the top wiper applicators or sponge bars in soybeans Allow at least 7 days between application and harvest

RESTRICTIONS See the SELECTIVE EQUIPMENT part of the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment

1 8 Sugarcane

TYPES OF APPLICATIONS Preplant preemergence spot treatment fallow hooded sprayers

Preplant and Preemergence

USE INSTRUCTIONS This product may be applied in or around sugarcane fields or in fields prior to the emergence of plant cane

RESTRICTIONS Do not apply to vegetation in or around ditches canals or ponds containing water to be used for irrigation

Spot Treatment

USE INSTRUCTIONS This product may be applied as a spot treatment in sugarcane For control of volunteer or diseased sugarcane make a 1 percent solution of this product in water and spray to-wet the foliage of vegetation to be controlled Volunteer or diseased sugarcane should have at least 7 new leaves

RESTRICTIONS Avoid spray contact with healthy cane plants since severe damage or destruction may result Do not feed or graze treated sugarcane foliage following application

Fallow Treatments

USE INSTRUCTIONS This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops This product may also be used to remove the last stubble of ratoon cane For removal of last stubble of ratoon cane apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves Allow 7 or more days after application before tillage

Hooded Sprayers

USE INSTRUCTIONS This product may be used through hooded sprayers for weed control between the rows of sugarcane See the SELECTIVE EQUIPMENT part of the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for additional use instructions

RESTRICTIONS Do not allow treated weeds to come into contact with the crop Droplets mist foam or splatter of the herbicide solution settling on the crop may result in discoloration stunting or destruction Such damage shall be the sole responsibility of the applicator

2 0 VEGETABLE CROPS

NOTE THIS VEGETABLE CROPS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED VEGETABLE CROPS WITHIN THIS SECTION SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS PREHARVEST INTERVALS AND RESTRICTIONS

USE DIRECTIONS This product may be applied prior to the emergence of direct seeded vegetables or prior to transplanting vegetables For the following crops apply only prior to planting and allow at least 3 days between application and planting cantaloupe casaba melon crenshaw melon cucumber eggplant garlic gherkin gourds ground cherry honeydew melon honey ball melon mango melon melons (all) muskmelon pepper (all) Persian melon pumpkin squash (summer winter) tomatillo tomato watercress and watermelon

RESTRICTIONS When applying this product prior to transplanting crops into plastic mulch care must be taken to remove residues of this product from the plastic prior to transplanting Residues can be removed by a single 0.5 inch application of water either by natural rainfall or via a sprinkler system

2 1 Brassica Vegetables

LABELED CROPS Broccoli (all) Brussels sprouts Cabbage (all) Chinese cabbage (bok choy) Cauliflower Cavalo broccolo Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens

2 2 Bulb Vegetables

LABELED CROPS Garlic Leek Onion Shallot

2 3 Cucurbit Vegetables and Fruits

LABELED CROPS Chayote (fruit) Cucumber Gherkin Gourds Melons (all) cantaloupe casaba crenshaw melon honeydew melon honey ball melon mango melon muskmelon Okra Persian melon Pumpkin Summer

squash (includes crookneck squash scallop squash straightneck squash vegetable marrow zucchini) Winter squash (includes butternut squash calabaza hubbard squash acorn squash spaghetti squash) Watermelon

2.4 Leafy Vegetables

LABELED CROPS Amaranth Arugula (roquette) Beet greens Cardoon Celery Chinese celery Celtuce Chervil Chrysanthemum Corn salad Cress Dandelion Dock (sorrel) Endive Florence fennel Lettuce (head and leaf) Parsley Purslane (garden and winter) Radicchio (red chicory) Rhubarb Spinach (all) Swiss chard Watercress (upland)

2.5 Fruiting Vegetables

LABELED CROPS Eggplant Groundcherry (*Physalis spp*) Pepino Pepper (all) Tomatillo Tomato

2.6 Legume Vegetables (Succulent or Dried)

LABELED CROPS Beans (all *Lupinus* includes grain lupin sweet lupin white lupin and white sweet lupin) Bean (*Phaseolus* includes field bean kidney bean lima bean navy bean pinto bean runner bean snap bean tepary bean wax bean) Bean (*Vigna* includes adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea crowder pea moth bean mung bean rice bean southern pea urd bean yardlong bean) Broad bean (fava) Chickpea (garbanzo) Guar Jackbean Lablab bean Lentil Peas (all *Pisum* includes dwarf pea edible podded pea English pea field pea garden pea green pea snowpea sugar snap pea) Pigeon pea Soybean (immature seed) Sword bean

2.7 Root and Tuber Vegetables

LABELED CROPS Artichoke (Jerusalem) Beet (all garden) Carrot Celeriac Chicory Ginseng Horseradish Parsnip Potato (Irish) Oriental radish Radish Rutabaga Sugar beets Salsify Sweet potato Turnip yams

Directed Applications (Non bearing Ginseng Only)

USE INSTRUCTIONS This product may be used for general weed control in established non bearing ginseng. Direct applications so that there is no contact of this product with the ginseng plant. Applications may be made with boom equipment, CDA shielded sprayers, hand held and high volume wands, lances, and orchard guns or with wiper application equipment.

RESTRICTIONS Allow one year to elapse between application and harvest. Extreme care must be exercised to avoid contact of herbicide solution, spray drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of desirable plants. Contact of this product with other than matured brown bark can result in serious crop damage.

Over the-top Wiper Applications (Rutabagas Only)

USE INSTRUCTIONS Wiper applications may be used over the top of rutabagas.

RESTRICTIONS Allow at least 14 days between application and harvest of rutabagas.

2.8 Asparagus

TYPES OF APPLICATIONS Preplant, preemergence, spot treatment, postharvest.

Preplant and Preemergence

USE INSTRUCTIONS This product may be applied prior to emergence of asparagus.

RESTRICTIONS Do not apply within a week before the first spears emerge.

Spot treatment

USE INSTRUCTIONS This product may be applied immediately after cutting, but prior to the emergence of new spears.

RESTRICTIONS Do not treat more than 10 percent of the total field area to be harvested Do not harvest within 5 days of treatment

Postharvest

USE INSTRUCTIONS This product may be applied after the last harvest and all spears have been removed If spears are allowed to regrow delay application until ferns have developed Delayed treatments should be applied as a directed or shielded spray in order to avoid contact of the spray with ferns stems or spears

RESTRICTIONS Direct contact of the spray with the asparagus may result in serious crop injury Select and use recommended types of spray equipment for postemergence postharvest applications A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop

2 9 Peanuts

TYPES OF APPLICATIONS Preplant preemergence at planting

USE INSTRUCTIONS This product may be applied before during or after planting peanuts Applications must be made prior to the emergence of the crop

2 10 Sunflowers

TYPES OF APPLICATIONS Preplant preemergence

USE INSTRUCTIONS This product may be applied before during or after planting sunflowers Applications must be made prior to emergence of the crop

RESTRICTIONS Do not apply more than 1 quart of this product per acre for sunflowers Make only one preplant or preemergent application per year Do not feed or graze sunflower forage following application of this product

3 0 TREE, NUT AND VINE CROPS

NOTE THIS SECTION GIVES DIRECTIONS THAT APPLY TO ALL LISTED TREE NUT AND VINE CROPS WITHIN THIS SECTION SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS PREHARVEST INTERVALS AND RESTRICTIONS

USE INSTRUCTIONS

TYPES OF APPLICATIONS General Weed Control Middles (between rows of trees) Strips (within rows of trees) Selective Equipment (Shielded Sprayers Wiper Applications except kiwi) Perennial Grass Suppression Cut Stump Applications may be made with boom equipment CDA equipment shielded sprayers hand-held and high volume wands lances orchard guns or with wiper applicator equipment except as directed

This product may be applied in middles strips and for general weed control in established tree fruit and nut groves orchards berries and vineyards It may also be used for site preparation prior to transplanting these crops Allow a minimum of 3 days between application and transplanting Apply 1 pint to 5 quarts per acre according to the ANNUAL WEEDS RATE TABLE AND PERENNIAL WEEDS RATE TABLE sections of this label Repeat applications may be made up to a maximum of 10 6 quarts per acre per year

Middles (Between Rows)

USE INSTRUCTIONS This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree fruits tree nuts and vine crops If weeds are under drought stress irrigate prior to application Reduced control may result if weeds have been mowed prior to application

TANK MIXTURES A tank mixture of this product plus Goal 2XL/Galigan 2E may be used for annual weeds in middles between rows of citrus crops tree fruits tree nuts and vine crops This mixture is recommended when weeds are stressed or growing in dense populations 16 to 32 fluid ounces per acre of this product plus 3 to 12 fluid ounces per acre of Goal 2XL/Galigan 2E will control annual weeds with a maximum height or diameter of 6

inches including crabgrass hairy fleabane (*Conyza bonariensis*) common groundsel junglerice common lambsquarters redroot pigweed London rocket common ryegrass shepherdspurse annual sowthistle common cheeseweed (malva) filaree (suppression) horseweed/marestail (*Conyza canadensis*) stinging nettle and common purslane (suppression) 12 to 32 oz/A of this product plus 3 to 12 fluid ounces per acre of Goal 2XL/Galigan 2E will control common cheeseweed (malva) with a maximum height or diameter of 3 inches

Strips (In Rows)

TANK MIXTURES This product may be applied in rows of tree nut or vine crops in tank mixtures with the following products

- | | |
|-------------------------|--------------------------|
| Devrinol® 50 DF | Simazine 4L |
| Direx® 4L/Diuron 4L | Simazine 80W |
| Goal® 2XL/Galigan™ 2E | Sim Trol® 4L |
| Karmex® DF/Diuron 80 DF | Solicam® DF |
| Krovar® I | Surflan® AS/Oryzalin 4AS |
| | Surflan® W |

- Prowl®
- Princep Caliber® 90

Do not apply these tank mixtures in Puerto Rico

Refer to the individual product labels for specific crops rates geographic restrictions and precautionary statements Apply 1 pint to 5 quarts of this product per acre in these tank mixtures Use rates at the higher end of the specified rate range when weeds are stressed growing in dense populations or are greater than 12 inches tall

Perennial Grass Suppression

This product will suppress perennial grasses such as bahiagrass Bermudagrass tall fescue orchardgrass Kentucky bluegrass and quackgrass that are grown as ground covers in tree and vine crops

For suppression of tall fescue fine fescue orchardgrass and quackgrass apply 8 fluid ounces of this product in 10 to 20 gallons of water per acre

For suppression of Kentucky bluegrass covers apply 6 fluid ounces of this product per acre Do not add ammonium sulfate

For best results mow cool season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre Apply 1 to 2 weeks after full green up or after mowing to a uniform height of 3 to 4 inches This application must be made prior to seedhead emergence

For suppression up to 120 days apply 4 fluid ounces of this product per acre followed by an application of 2 to 4 fluid ounces per acre about 45 days later Make no more than 2 applications per year

For burndown of Bermudagrass apply 1 to 2 quarts of this product in 3 to 20 gallons of water per acre Use this treatment only if reduction of the Bermudagrass stand can be tolerated When burndown is required prior to harvest allow at least 21 days to elapse to ensure sufficient time for burndown to occur

For suppression of Bermudagrass apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces of this product per acre west of the Rocky Mountains Apply in a total spray volume of 3 to 20 gallons per acre no sooner than 1 to 2 weeks after full green up If the Bermudagrass is mowed prior to application maintain a minimum of 3 inches in height Sequential applications may be made when regrowth occurs and Bermudagrass injury and stand reduction can be tolerated East of the Rocky Mountains rates of 6 to 10 fluid ounces of this product per acre should be used in shaded conditions or where a lesser degree of suppression is desired

Selective Equipment

Shielded and wiper applicators may be used in tree crops and grapes. Refer to the individual crop section for time interval between application and harvest.

RESTRICTIONS For all uses in this section, extreme care must be exercised to avoid contact of herbicide solution, spray drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees, canes and vines. Contact of this product with other than matured brown bark can result in serious crop damage or destruction. Avoid painting cut stumps with this product as injury resulting from root grafting may occur in adjacent trees.

3.1 Berry Crops

LABELED CROPS Blackberry (boysenberry, dewberry and youngberry), Blueberry, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry, Oallieberry, Raspberry (black/red), Youngberry.

TYPES OF APPLICATIONS Preplant, preemergence, directed spray (except Cranberry), wiper application.

USE INSTRUCTIONS This product may be applied as a preplant or preemergence broadcast application or as a wiper application for crops listed in this section. Directed sprays may be applied to any crop except cranberries. For wick or wiper applications, mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

RESTRICTIONS To avoid damage, herbicide sprays must not be allowed to contact desirable vegetation, including green shoots, canes, or foliage. Allow a minimum of 30 days between last application and harvest in cranberries. Allow a minimum of 14 days between last application and harvest in other berry crops.

3.2 Citrus Crops

LABELED CROPS Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.

TYPES OF APPLICATIONS General Weed Control, Middles (between rows of trees), Strips (within rows of trees), Selective Equipment (Shielded Sprayers, Wiper Applications).

USE INSTRUCTIONS For Use Directions, see the TREE, NUT AND VINE CROPS (USE INSTRUCTIONS) section. The recommendations below pertain to applications in Florida and Texas.

FLORIDA AND TEXAS For burndown or control of the weeds listed below, apply the specified rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre. For citron, apply as a post-directed spray only.

For goatweed, apply 2 to 3 quarts of this product per acre. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches tall. If goatweed is greater than 8 inches tall, the addition of Krovar® I or Karmex®/Diuron may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Perennial weeds

WEED SPECIES	Glyphogan Plus Herbicide RATE PER ACRE			
	1 Qt	2 Qt	3 Qt	5 Qt
Bermudagrass	B	-	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods		B	C	C
Paragrass	B	C	C	C

Torpedograss	S	-	PC	C
S = Suppression	B = Burndown			
PC = Partial control	C = Control			

RESTRICTIONS Allow a minimum of 1 day between last application and harvest in citrus crops

3 3 Pome Fruit, Stone Fruit and Olives

LABELED CROPS Apple Crabapple Loquat Mayhaw Pear Quince Apricot Cherry (sweet tart) Nectarine Olive Peach Plum/Prune (all types)

TYPES OF APPLICATIONS General weed control middles (between rows of trees) strips (in row of trees) selective equipment

USE DIRECTIONS FOR USE DIRECTIONS SEE THE TREE NUTS AND VINE CROPS (USE INSTRUCTIONS) SECTION The following directions are specific to tree fruits

EQUIPMENT RESTRICTIONS For cherries any application equipment listed in this section may be used in all states For olives apply as a post-directed spray only Any application equipment listed in this section may be used in apricots nectarines peaches and plums/prunes growing in Arizona California Colorado Idaho Kansas Kentucky New Jersey North Dakota Oklahoma Oregon Texas Utah and Washington except for peaches grown in the states specified in the following paragraph In all other states use wiper equipment only

For PEACHES grown in Alabama Arkansas Florida Georgia Louisiana Mississippi North Carolina South Carolina and Tennessee only apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees Apply no later than 90 days after first bloom Applications made after this time may result in severe damage Remove suckers and low-hanging limbs at least 10 days prior to application Avoid applications near trees with recent pruning wounds or other mechanical injury Apply only near trees that have been planted in the orchard for 2 or more years EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED

RESTRICTIONS Allow a minimum of 1 day between last application and harvest for apple crabapple loquat mayhaw pear and quince Allow a minimum of 17 days between last application and harvest in apricot cherry (sweet tart) nectarine olive peach and plum/prune

3 4 Tree Nuts

LABELED CROPS Almond Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory nut Macadamia Pecan Pistachio Walnut (black English)

TYPES OF APPLICATIONS General weed control middles (between rows of trees) strips (in row of trees) selective equipment

USE DIRECTIONS FOR USE DIRECTIONS SEE THE TREE NUT AND VINE CROPS (USE INSTRUCTIONS) SECTION The following directions are specific to tree nuts

RESTRICTIONS Allow a minimum of 3 days between last application and harvest of tree nuts

3 5 Tropical and Subtropical Trees and Fruits

LABELED CROPS Atemoya Avocado Banana Barbados cherry (acerola) Breadfruit Canistel Carambola (starfruit) Cherimoya Cocoa beans Coconuts Coffee Dates Figs Guava Jaboticaba Jackfruit Longan Lychee Mango Marmaladebox (genip) Papaya Passion fruit Persimmon Pineapple Plantain Pomegranate Sapodilla Sapote (black mamey white) Soursop Sugar apple Tamarind Tea

TYPES OF APPLICATIONS General weed control middles (between rows of trees) strips (in row of trees) selective equipment plus Bananacide (banana only)

USE DIRECTIONS This product may be applied for general weed control or for site preparation prior to transplanting crops listed in this section In coffee and banana delay applications 3 months after transplanting to allow the new coffee or banana plant to become established

RESTRICTIONS Allow a minimum of 1 day between last application and harvest in banana guava and papaya Allow a minimum of 28 days between last application and harvest in coffee and plantain Allow a minimum of 14 days between last application and harvest for any other tropical or subtropical tree fruit crop including tea Do not feed or graze treated pineapple forage following application

Bananacide (Bananas Only)

USE INSTRUCTIONS This product may be used to destroy banana plants For direct application to bananas remove fruit prior to treatment

3 6 Vine Crops

LABELED CROPS Grapes (raisin table wine) Kiwi

TYPES OF APPLICATIONS General weed control middles (between rows) strips (in row) selective equipment

USE DIRECTIONS FOR USE DIRECTIONS SEE THE TREE NUT AND VINE (USE INSTRUCTIONS) SECTION The following directions are specific to vine crops Applications should not be made when green shoots canes or foliage are in the spray zone In the northeast and Great Lakes regions applications must be made prior to the end of bloom stage of grapes to avoid injury or make applications with shielded sprayers or wiper equipment

RESTRICTIONS Allow a minimum of 14 days between last application and harvest

4 0 PASTURE GRASSES, FORAGE LEGUMES AND RANGELANDS

4 1 Alfalfa, Clover, and Other Forage Legumes

LABELED CROPS Alfalfa Clover Kudzu Lespedeza Lupin Sainfoin Trefoil Velvet bean Vetch (all types)

TYPES OF APPLICATIONS Dormant (Alfalfa Only) Preplant Preemergence At-planting Spot Treatment (Alfalfa and Clover Only) Wiper Applicators (Alfalfa and Clover Only) Renovation Preharvest (Alfalfa Only)

Dormant (Alfalfa Only)

USE INSTRUCTIONS This product will control or suppress many weeds including quackgrass downy brome and cheatgrass in dormant alfalfa Apply 8 to 12 ounces per acre of this product Apply in the spring to alfalfa that is dormant Applications should be made after spring temperatures have warmed enough to encourage resumption of weed growth but prior to initiation of trifoliolate leaf expansion of the alfalfa Applications made after expansion of the first trifoliolate leaf of the alfalfa will cause growth reduction and reduced crop yield

RESTRICTIONS Do not use ammonium sulfate when spraying dormant alfalfa with this product Do not use this product where a slight yield reduction in the first cutting of alfalfa cannot be tolerated Do not make more than one application per year Allow 36 hours after application before grazing livestock or harvesting Slight discoloration of the alfalfa may occur but the alfalfa will regreen and regrow under moist soil conditions as effects of this product wear off Application of this product can cause crop injury Any crop injury is the sole responsibility of the applicator

Preplant, Preemergence, and At Planting

USE INSTRUCTIONS This product may be applied before during or after planting alfalfa and clover Applications must be made prior to emergence of the crop

RESTRICTIONS Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting

Preharvest (Alfalfa Only)

USE INSTRUCTIONS This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable. This application will severely injure or destroy the stand of alfalfa. This product will control annual and perennial weeds including quackgrass when applied prior to the harvest of alfalfa. The treated crop and weeds can be harvested and fed to livestock after 36 hours. Allow a minimum of 36 hours between application and harvest. Use up to 1 quart of this product per acre. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year. For control of quackgrass apply in the spring, late summer or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

RESTRICTIONS Do not apply more than 1 quart of this product per acre as a preharvest treatment. Preharvest application is not recommended for alfalfa grown for seed as a reduction in germination or vigor may occur.

Spot Treatment and Wiper Applications (Alfalfa and Clover Only)

USE INSTRUCTIONS This product may be applied as a spot treatment in alfalfa or clover. This product may be applied with wiper applicators to control or suppress the weeds listed under WIPER AND SPONGE BARS in the SELECTIVE EQUIPMENT section of this label. Applications may be made in the same area at 30 day intervals.

RESTRICTIONS For spot treatment and wiper applications apply in areas where the movement of domestic livestock can be controlled. No more than 10 percent of the total field area should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

Renovation

USE INSTRUCTIONS This product may be applied as a broadcast spray to renovate existing stands of alfalfa, clover, and other labeled forage legumes. Labeled crops may be planted into the treated area.

RESTRICTIONS Remove domestic livestock before application and wait 8 weeks between applications and grazing or harvesting.

4.2 Conservation Reserve Program (CRP)

TYPES OF APPLICATIONS Renovation (rotating out of CRP), Site preparation, Postemergence weed control in dormant CRP grasses, Wiper applications.

Renovation (Rotating Out of CRP), Site Preparation

USE INSTRUCTIONS This product may be used to prepare CRP land for crop production. Refer to Federal, state or local use guides for CRP renovation recommendations.

Postemergence Weed Control in Dormant CRP Grasses, Wiper Applications

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 12 to 16 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.

RESTRICTIONS Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant. Do not apply more than 3 quarts per acre per year onto CRP grasses.

4.3 Grass Seed Production

LABELED CROPS Any grass (*Gramineae* family) except corn sorghum sugarcane and those listed above under CEREAL AND GRAIN CROPS

TYPES OF APPLICATIONS Preplant Renovation Site Preparation Shielded Sprayers

Preplant, Renovation and Site Preparation

USE INSTRUCTIONS This product may be applied before planting or renovation of turf or forage grass areas grown for seed production 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

RESTRICTIONS Do not disturb soil or underground plant parts before treatment Tillage or renovation techniques such as vertical mowing coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts Do not feed or graze treated areas for 8 weeks following application

Shielded Sprayers (Idaho, Oregon and Washington Only)

USE INSTRUCTIONS Apply 1 to 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

RESTRICTIONS Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage Such damage shall be the sole responsibility of the applicator

4 4 Pastures

LABELED CROPS Any grass (*Gramineae* family except corn sorghum sugarcane and those listed above under CEREAL AND GRAIN CROPS) including Bahiagrass Bermudagrass Bluegrass Bromegrass Fescue Orchardgrass Ryegrass Timothy Wheatgrass Alfalfa and Clover In Hawaii pastures include kikuyu grass pangola grass and guineagrass

TYPES OF APPLICATIONS Spot Treatment Over the-Top Wiper Application Preplant Preemergence Pasture Renovation

Spot Treatment and Wiper Application

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

RESTRICTIONS For spot treatment and wiper applications apply in areas where the movement of domestic livestock can be controlled No more than 10 percent of the total pasture area should be treated at one time Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting

Preplant, Preemergence, and Pasture Renovation

USE INSTRUCTIONS This product may be applied prior to planting or emergence of forage grasses and legumes In addition this product may be used to control perennial pasture species listed on this label prior to re-planting

RESTRICTIONS Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting

5 0 ROUNDUP READY® CROPS

The following instructions include all applications which can be made onto the specified Roundup Ready® crops during the complete cropping season Do NOT combine these instructions with other recommendations made for

crop varieties that do not contain the Roundup Ready gene in the ANNUAL AND PERENNIAL CROPS section of this label

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY® GENE

Applying this product to crop varieties that are not designated as Roundup Ready® will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants that do not contain the Roundup Ready gene, since severe injury or destruction will result.

The Roundup Ready designation indicates that the crop variety contains a patented gene that provides tolerance to this product. Information on Roundup Ready crop varieties may be obtained from your seed supplier or MANA representative. Roundup Ready crop varieties must be purchased from an authorized licensed seed supplier. **IT IS UNLAWFUL TO SELL OR PLANT SAVED SEED. SEEDS WITH THE ROUNDUP READY® GENE MAY ONLY BE USED FOR PLANTING A COMMERCIAL CROP IN A SINGLE SEASON. SEED MAY NOT BE SAVED FOR REPLANTING AND SAVED SEED MAY NOT BE SUPPLIED TO OTHERS FOR REPLANTING.** MAKHTESHIM AGAN NORTH AMERICA DOES NOT WARRANT THE SAFETY OR PERFORMANCE OF THIS PRODUCT WHEN USED ON BROWN BAG OR FARMER SAVED SEED.

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat spray nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in 3 to 15 gallons of water per acre. See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for procedures to avoid spray drift that may cause injury to any vegetation not intended for treatment. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

For proper stewardship of aerial applications over the top of Roundup Ready crops, MANA recommends that growers and applicators read and follow all precautions and procedures contained in the use guide, A Guide to On Target Aerial Application, available by calling 1-800-ROUNDUP (1-800-768-6387) or on the internet at www.FARMSOURCE™.com

ATTENTION AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE.

See the MIXING and APPLICATION EQUIPMENT AND TECHNIQUES sections of this label for additional directions and restrictions on the application of this product.

Sprayer Preparation It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product. Follow the cleaning procedures specified on the label of the product(s) previously used. **THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.**

5.1 Seed Production of Canola with the Roundup Ready® Gene

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT TO CONTROL NON GLYPHOSATE TOLERANT CANOLA IN PRODUCTION FIELDS OF CANOLA WHICH CONTAINS THE ROUNDUP READY® GENE

SEVERE INJURY OR DEATH WILL RESULT IF CANOLA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT

USE INSTRUCTIONS This product will control non glyphosate tolerant canola in seed production fields of canola containing the Roundup Ready® gene. This product may be applied by ground application equipment only.

Apply 1 pint of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. A second application of 1 pint may be applied if needed to control non glyphosate resistant canola plants. Apply to Roundup Ready® canola from emergence to the pre flower (early bolting) stage.

RESTRICTIONS Do not exceed a maximum rate of 1 quart of this product per acre per season. Treated canola may not be used for food or feed. Do not feed or graze treated canola. Do not process treated canola for food or feed.

5.2 Preplant, Preemergent and/or Over the Top Applications to Canola with the Roundup Ready® Gene

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT ONLY ON CANOLA WHICH CONTAINS THE ROUNDUP READY® GENE

DO NOT USE THIS PRODUCT ON CANOLA WITH THE ROUNDUP READY® GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEORGIA, KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA

SEVERE INJURY OR DEATH WILL RESULT IF CANOLA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT. Avoid contact with foliage, green stems, or fruit of crops or any desirable plants which do not contain the Roundup Ready® gene since severe injury or destruction will result.

USE INSTRUCTIONS This product will control many troublesome emerged weeds when applied preplant, preemergent and/or over the top applications in Roundup Ready® canola.

RESTRICTIONS See the ROUNDUP READY CROPS section of this label for other precautionary instructions for use in Roundup Ready crops. There are no rotational crop restrictions following applications of this product. Allow a minimum of 60 days between last application and canola harvest. Refer to the table below for maximum seasonal rates.

Maximum Allowable Combined Application Quantities Per Season	
Total of Preplant and Preemergence applications	2 quarts per acre
Total in crop application from emergence to 6 leaf stage	1 quart per acre

Ground Applications Apply this product in 5 to 20 gallons of spray solution per acre using broadcast equipment. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use nozzles which provide a flat fan pattern. Check for even distribution of spray droplets.

Aerial Applications Use the specified rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed a maximum rate of 16 ounces of this product per acre when applied by air. **AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. DO NOT APPLY DURING LOW LEVEL INVERSION CONDITIONS WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. MAINTAIN APPROPRIATE BUFFER ZONES TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION.**

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to

occur When spraying avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) that are likely to drift **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE**

Coarse sprays are less likely to drift therefore do not use nozzles or nozzle configurations that dispense spray as fine spray droplets Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure

WEEDS CONTROLLED For specific rates of application and instructions refer to the **ANNUAL WEEDS RATE TABLE** and the **PERENNIAL WEEDS RATE TABLE**

TANK MIXTURES Tank mixes of this product with other herbicides insecticides or fungicides may result in reduced weed control or crop injury and are not recommended for over the top applications of this product Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product This product will control or suppress most perennial weeds For some perennial weeds repeat applications may be required to eliminate crop competition throughout the growing season For over the top uses on Roundup Ready crop varieties crop safety and weed control performance are not warranted by Makhteshim Agan North America when this product is used in conjunction with brown bag or bin run seed saved from previous year's production and replanted

Preplant or Preemergence

USE INSTRUCTIONS This product may be applied by aerial or ground application equipment before planting or emergence of canola

RESTRICTIONS The maximum combined application rate from all preplant and preemergent applications must not exceed 2 quarts per acre per season **NOTE** In no till and stale seedbed systems always use a burndown treatment to control existing weeds before canola emerges Apply a preplant burndown treatment of 16 32 fl oz per acre of this product

Over the top (Postemergence)

USE INSTRUCTIONS This product may be applied by aerial or ground application equipment postemergence to Roundup Ready® canola from emergence through the 6 leaf stage of development To maximize yield potential make applications early to eliminate competing weeds

RESTRICTIONS Do not exceed 16 fl oz per acre of this product in any single over-the-top broadcast application Do not apply more than two broadcast over-the-top applications from emergence to the 6-leaf stage of development Sequential over-the-top applications must be at least 10 days apart

5.3 Corn with the Roundup Ready® Gene

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT ONLY ON CORN SEED WHICH CONTAINS THE ROUNDUP READY® GENE

SEVERE INJURY OR DEATH WILL RESULT IF CORN VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT Avoid contact with foliage, green stems, or fruit of crops or any desirable plants which do not contain the Roundup Ready® gene since severe injury or destruction will result

Postemergence

USE INSTRUCTIONS This product may be applied postemergence to Roundup Ready corn during the period beginning at corn emergence and continuing through the 12-leaf stage or until corn height reaches 30 inches whichever comes first

RESTRICTIONS See the **ROUNDUP READY CROPS** section of this label for instructions for use in Roundup Ready crops Single in crop applications of this product are not to exceed 1 quart per acre Sequential in crop applications of this product may not exceed 2 quarts per acre per growing season Total Glyphogan Plus use must not exceed 8 quarts per acre per year Refer to the table below for maximum seasonal rates

Allow a minimum of 50 days between application of this product and harvest of corn forage and 7 days between application and harvest of corn grain. Allow a minimum of 14 days between in crop applications of this product. The use of additives for in crop applications to Roundup Ready corn is prohibited. There are no rotational crop restrictions following applications of this product.

Maximum Allowable Application Quantities Per Season	
Combined total per year for all applications	8 quarts per acre
Total of Preplant Preemergence applications (maximum)	5 quarts per acre
Total in crop applications from emergence to 12-leaf stage or 30 inches	2 quarts per acre
Maximum preharvest application rate	1 quart per acre

WEEDS CONTROLLED When applied as directed this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more application of this product. Applications should be made to actively growing weeds before they reach the maximum size listed in the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE on this label. Glyphogan Plus applied at up to 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition: nutsedge, rhizome johnsongrass, quackgrass, Canada thistle, wirestem muhly.

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

Ground Applications Apply this product in 5 to 20 gallons of spray solution per acre using broadcast equipment. Refer to the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE section for specific application rates. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use nozzles which provide a flat fan pattern. Check for even distribution of spray droplets.

Aerial Applications Use the specified rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed a maximum rate of 1 quart of this product per acre when applied by air. Refer to the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE sections for specific application rates. **AVOID DRIFT. DO NOT APPLY DURING INVERSION CONDITIONS. WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. MAINTAIN APPROPRIATE BUFFER ZONES TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION.**

Sequential Applications Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control. The second application should be made after some regrowth has occurred.

TANK MIXTURES Glyphogan Plus with Micro Tech® Use these tank mixtures for postemergence and residual control of annual weeds in corn. These tank mixtures may be made during the period beginning at corn emergence and continuing until corn height reaches 5 inches.

Glyphogan Plus with atrazine, Banvel®, Clarity®, Permit® or 2,4-D Use these tank mixtures for postemergence control of additional weeds in corn. A Glyphogan Plus tank mixture with atrazine may be made during the period beginning at corn emergence and continuing until corn height reaches 12 inches. A Glyphogan Plus tank mixture with Banvel or Clarity at 0.125 – 0.25 lb per acre may be made during the period beginning at corn emergence and continuing until corn height reaches 30 inches. A Glyphogan Plus tank mixture with Permit may be made during the period beginning at corn emergence and continuing until corn height reaches 30 inches. A Glyphogan

Plus tank mixture with 2 4 D at 0 125 0 25 lb per acre may be made during the period beginning at corn emergence and continuing until corn is at the 5 leaf stage or corn height reaches 8 inches whichever comes first

5 4 Cotton with the Roundup Ready® Gene

See the ROUNDUP READY® CROPS section of this label for instructions for use in Roundup Ready Soybeans MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON COTTON VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY® GENE

SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT AVOID CONTACT OF HERBICIDE WITH FOLIAGE GREEN STEMS OR FRUIT OF CROPS OR ANY DESIRABLE PLANTS AND TREES OTHER THAN CROPS WITH THE ROUNDUP READY® GENE SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT

USE INSTRUCTIONS This product will control many troublesome weeds with over the top post directed hooded spray and preharvest applications in Roundup Ready® cotton

RESTRICTIONS For preharvest applications (applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20% boll crack) allow a minimum of 7 days between final application and harvest of cotton There are no rotational crop restrictions following application of this product Sprayer preparation Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use Follow the cleaning procedures specified on the label of the product(s) previously used

NOTE Glyphogan Plus will not enhance the performance of harvest aids when applied to Roundup Ready cotton Do not apply Glyphogan Plus to crops grown for seed

MAXIMUM ANNUAL RATES See table below for maximum amount of this product which can be applied to Roundup Ready Cotton

Maximum Allowable Application Quantities Per Season	
Combined total per year for all applications	8 quarts per acre
Total of Preplant Preemergence applications	5 quarts per acre
Total in crop applications from ground cracking to layby	4 quarts per acre
Maximum preharvest application rate	2 quarts per acre

Ground Applications Use the specified rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray Carefully select proper nozzle and spray pressure to avoid spraying a fine mist For best results with ground application equipment use nozzles which provide a flat fan pattern Check for even distribution of spray droplets

Aerial Applications Use the specified rates of this product in 3 to 15 gallons of spray solution per acre Do not exceed a rate of 1 quart of this product per acre AVOID DRIFT EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE DO NOT APPLY DURING LOW LEVEL INVERSION CONDITIONS WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED MAINTAIN APPROPRIATE BUFFER ZONES TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION

Over the Top Applications

This product may be applied by aerial or ground application equipment postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter) Over the top applications made after the four leaf (node) stage of development may result in boll loss delayed maturity and/or yield loss Any single over the top broadcast application should not exceed 1 quart per acre No more than two over the top broadcast applications may be made from crop emergence through the four leaf (node) stage of development Sequential over-the top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications

NOTE Always plant into a weed free seedbed In no till and stale seedbed systems always burn down existing weeds before cotton emerges Apply a preplant burndown treatment of 16 48 fl oz per acre of this product

Post directed or hooded applications

This product may be applied using precision post directed or hooded sprayers to Roundup Ready cotton through lay Be especially careful to minimize contact of the spray with cotton leaves At this stage post-directed equipment should be used which directs the spray to the base of the cotton plants Place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row For best results make applications while weeds are small (less than 3 inches) Minimize spray drift onto the leaves of the cotton plants by maintaining low spray pressure (less than 30 PSI) Applications that contact the cotton leaves may result in boll loss delayed maturity and/or yield loss Any single post directed application should not exceed 1 quart per acre of this product No more than two applications should be made from the fifth leaf through layby Sequential in crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications

Salvage Treatment

This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop One quart per acre may be applied either as an over the-top application or as a post directed treatment sprayed higher on the cotton plants and over the weeds NOTE Salvage treatments will result in significant boll loss delayed maturity and/or yield loss No more than one salvage treatment should be used per growing season

WEEDS CONTROLLED For specific rates of application and instructions for control of various annual and perennial weeds refer to the ANNUAL WEEDS RATE TABLE and PERENNIAL WEEDS RATE TABLE of this label Glyphogan Plus applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition yellow and purple nutsedge rhizome johnsongrass common bermudagrass silverleaf nightshade trumpet creeper and Redvine Fall preharvest applications may be required for control of these perennial weeds Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for over the top applications of this product Some weeds with multiple germination times or suppressed (stunted) weeds may required sequential applications of this product for control

5 5 Flex Cotton with the Roundup Ready® Gene

TYPES OF APPLICATION Preplant At-Planting Preemergence Postemergence (In-crop) Preharvest

USE INSTRUCTIONS Refer to the following table for maximum application rates of this product with Roundup Ready Flex cotton

Maximum Application Rates	
Combined total per year for all applications	8 quarts per acre
Total of all Preplant At planting Preemergence applications	5 quarts per acre
Total of all In crop applications from cracking to 60 percent open bolls	6 quarts per acre
Total of all In crop applications between layby and 60 percent open bolls	2 quarts per acre
Total of all In crop applications from 60 percent bolls open to 7 days prior to harvest	2 quarts per acre
Total of all In-crop applications from emergence through harvest	6 quarts per acre

RESTRICTIONS See the **ROUNDUP READY CROPS** section of the Glyphogan Herbicide label for precautionary instructions regarding the use of this product in Roundup Ready Crops Also refer to the Glyphogan Herbicide label for more information on Maximum Application Rates

Preplant, At Planting, Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready Flex cotton
TANK MIXTURES This product may be tank mixed with 2 4 D or Clarity and applied prior to planting only This product may be tank mixed with the following products and applied prior to crop emergence Ensure that the specific product being used is labeled for application prior to planting or the emergence of cotton Read and follow label directions of all products in the tank mixture

clomazone diuron flumioxazin fluometuron fomesafen metolachlor s metolachlor pendimethalin prometryn pyriithiobac sodium

Caparol Cotton Pro Command Cotoran MANA Diuron Direx Karmex Parallel Parallel PCS Dual MAGNUM Dual II MAGNUM Prowl Prowl H2O Reflex Pyrimax Staple Valor Zorial

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5 quarts per acre per season Refer to individual tank mix product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

Postemergence (In-crop)

USE INSTRUCTIONS This product may be applied to control annual grasses and broadleaf weeds listed in the Glyphogan Herbicide label To maximize yield potential eliminate competing weeds early Many perennial weeds will be controlled or suppressed with one or more applications of this product Use an initial application of 1 quart per acre to control or suppress 1 to 3 inch tall annual grasses and broadleaf weeds This product may be applied postemergence to Roundup Ready Flex cotton using ground application equipment at rates up to 1 5 quarts per acre per application In addition to broadcast application post directed spray equipment may be used to achieve more thorough weed coverage

TANK MIXTURES This product may be tank mixed with the following products and applied postemergence (in crop) over the top of Roundup Ready Flex cotton Ensure that the specific product being used is labeled for application postemergence (in-crop) to cotton Read and follow label directions of all products in the tank mixture

clethodim fluazifop P butyl fomesafen metolachlor s metolachlor pyriithiobac-sodium quizalofop p-ethyl sethoxydim trifloxysulfuron-sodium

Assure II Parallel Parallel PCS Dual MAGNUM Envoke Fusilade Poast Plus Arrow Select Pyrimax Staple

Pyrimax or Staple may cause leaf yellowing and/or leaf crinkling when applied postemergence (in crop) in Roundup Ready Flex cotton Parallel and Dual Magnum applied over the top of Roundup Ready Flex cotton may cause leaf injury in the form of necrotic spotting

This product can be tank mixed with the following products for in crop application using precision post-directed or hooded sprayers Ensure that the specific product being used is labeled for application postemergence (in crop) to cotton Read and follow label directions of all products in the tank mixture

carfentrazone-ethyl diuron flumioxazin fluometuron linuron pendimethalin prometryn pyriithiobac sodium trifloxysulfuron sodium

Aim Cotton PRO Caparol Cotoran MANA Diuron Direx Envoke Layby-Pro Prowl H2O Pyrimax Staple Valor

Pyrimax or Staple may cause leaf yellowing and/or leaf crinkling when applied postemergence (in crop) in Roundup Ready Flex cotton

RESTRICTIONS The maximum single in-crop application rate of this product to Roundup Ready Flex cotton using ground application equipment is 1.5 quarts per acre. **In-crop application rates above 1 quart per acre made alone or with the addition of other crop chemical products containing surfactant may cause a crop response including leaf speckling or leaf necrosis.** Do not exceed a maximum rate of 1 quart of this product per acre when making application by air. Between layby and 60 percent open bolls, the maximum combined total application rate of this product is 2 quarts per acre. The maximum combined total of all applications of this product made from crop emergence to 60 percent open bolls must not exceed 6 quarts per acre. **DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR OVER-THE-TOP APPLICATION TO ROUNDUP READY FLEX COTTON.** Refer to individual tank mix product label for restrictions and precautions; use according to the most restrictive precautionary statements for each product in the tank mixture.

Preharvest

USE INSTRUCTIONS This product may be applied to Roundup Ready Flex cotton up to 2 quarts per acre for annual and perennial weed control prior to harvest after 60 percent boll crack.

NOTE This product will not enhance the performance of harvest aids when applied to Roundup Ready Flex cotton.

RESTRICTIONS Allow a minimum of 7 days between application and harvest of Roundup Ready Flex cotton. **DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO ROUNDUP READY FLEX COTTON.**

ATTENTION USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY FLEX COTTON. HOWEVER, DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS, IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

5.6 Soybeans with the Roundup Ready® Gene

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON SOYBEAN VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

SEVERE INJURY OR DEATH OF SOYBEANS WILL RESULT IF ANY SOYBEAN VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT. AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS OR ANY DESIRABLE PLANTS AND TREES OTHER THAN CROPS WITH THE ROUNDUP READY® GENE. SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT.

See the **ROUNDUP READY CROPS** section of this label for instructions for use in Roundup Ready Soybeans.

USE INSTRUCTIONS This product may be applied postemergence to Roundup Ready® soybeans from the cracking stage throughout flowering. When applied as directed, this product will control the labeled annual grasses and broadleaf weeds in Roundup Ready soybeans. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product.

RESTRICTIONS Allow a minimum of 14 days between final application and harvest of soybeans. There are no rotational crop restrictions following application of this product. Refer to the table below for the maximum annual rates.

NOTE The use of this product for in crop applications over Roundup Ready soybeans may not be practiced in California unless the applicator has at the time of application a California-approved Supplemental Label specifying the accepted Directions for Use

MAXIMUM ANNUAL RATES See table below for maximum amount of this product which can be applied to Roundup Ready Soybeans

Maximum Allowable Application Quantities Per Season	
Combined total per year for all applications	8 quarts per acre
Total of Preplant Prior to Crop Emergence	5 quarts per acre
Total in crop applications from cracking throughout flowering	3 quarts per acre
Maximum combined total applied in crop and preharvest	3 quarts per acre
Maximum combined total applied during flowering	2 quarts per acre
Maximum single rate for in crop applications	2 quarts per acre
Maximum preharvest application rate (applied after loss of green color in soybean pods until 14 days before harvest)	1 quart per acre

Ground Applications Use the specified rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment use nozzles which provide a flat fan pattern. Check for even distribution of spray droplets.

Aerial Applications Use the specified rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed a rate of 1 quart of this product per acre. Aerial applications are permitted only in the states of Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Mississippi, Missouri (boot-heel only), North Carolina, Oklahoma, South Carolina, Tennessee, and Texas. **DO NOT APPLY DURING LOW LEVEL INVERSION CONDITIONS WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. MAINTAIN APPROPRIATE BUFFER ZONES TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION.**

ANNUAL WEED APPLICATION RATES

The following application rates will provide control of labeled grasses and broadleaf weeds in conventional and no till soybean production systems. Refer to the ANNUAL WEEDS RATE TABLE on this label for application rates for specific annual weeds.

Makhteshim Agan North America will not warrant crop safety or weed control when Roundup Ready soybeans are treated with herbicides not specified on this label. Because of the potential for 1) crop injury, 2) poor weed control from antagonism, and/or 3) rotational crop restrictions herbicides not specified on this label should not be used, whether applied preemergence or applied postemergence as a tank mixture with Glyphogan Plus.

This product may be used up to 64 fluid ounces per acre in any single application for control of annual weeds where heavy weed densities exist. The maximum combined total of this product which can be applied during flowering is 64 fluid ounces per acre.

NOTE The following instructions are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence. In no till and stale seedbed systems a preplant burn down treatment of 16-64 fluid ounces per acre of this product can be used to control existing weeds prior to crop emergence.

MIDWEST/MID ATLANTIC INSTRUCTIONS

Narrow row or drilled soybeans A single in-crop application of this product will provide effective control of labeled weeds For best results an initial application of 32 fluid ounces per acre on 4 8 inch weeds is recommended Weeds will generally be 4 8 inches tall 3 5 weeks after planting If the initial application is delayed and weeds are 8 18 inches tall use 48 fl oz per acre for best results

Under adverse growing conditions such as drought hail wind damage or a poor soybean stand that slows or delays canopy closure a sequential application of this product at 16 to 32 fl oz per acre may be necessary to control late flushes of weeds The combined total application in-crop must not exceed 64 fl oz per acre

Wide row soybeans An in crop application of this product will provide effective control of the initial stand of labeled weeds For best results apply an initial application of 32 fl oz per acre on 4 8 inch weeds Weeds will generally be 4 8 inches tall 3 5 weeks after planting If new flushes of weeds occur they can be controlled by sequential applications of this product

Initial Treatment

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
8	32
18	48

Sequential Application (if needed, combined total application in crop not to exceed 96 fl oz /A)

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
1 3	16
3 6	24
6-12	32

Giant ragweed apply 32 fl oz /A when the weed is 8-12 inches tall to avoid the need for sequential application

Groundcherry ladythumb Pennsylvania smartweed morningglory Apply 32 fl oz /A to weeds 3 6 inches tall

Some weeds such as black nightshade wooly cupgrass shattercane wild proso millet burcucumber and giant ragweed with multiple germination times may require a sequential application of this product Suppressed or stunted weeds may also require sequential applications Sequential applications should be made after some regrowth has occurred Use a minimum of 16 fl oz of this product per acre for sequential applications The combined total of all in crop postemergence treatments must not exceed 96 fl oz per acre

SOUTHEAST INSTRUCTIONS

Narrow row, drilled, or wide row soybeans An in-crop application of this product will provide effective control of the initial stand of labeled weeds For best results apply an initial application of 32 fl oz per acre on 3 6 inch weeds Weeds will generally be 3 6 inches tall 2 3 weeks after planting

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
3 6	32
6 12	48

Under adverse growing conditions such as drought hail wind damage or a poor soybean stand that slows or delays canopy closure a sequential application of this product at 16 to 32 fl oz per acre may be necessary to control late flushes of weeds

Sequential Application (if needed, combined total application in crop not to exceed 96 fl oz /A)

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
2 3	16
3 6	24
6 12	32

Florida pusley hemp sesbania and spurred anoda Apply 32 fl oz per acre to weeds 2-4 inches for the initial application Apply 32 fl oz per acre when these weeds are 3 6 inches tall if a sequential application is necessary

Morningglory black nightshade groundcherry and Pennsylvania smartweed Apply 24 fl oz per acre on 1 3 inch weeds 32 fl oz per Acre on 3 6 inch weeds or 48 fl oz per acre on 6 12 inch weeds for the initial application Some weeds such as black nightshade broadleaf signalgrass Texas panicum burcumber and sicklepod with multiple germination times may require a sequential application of this product Suppressed or stunted weeds may also require sequential applications Sequential applications should be made after some regrowth has occurred Use a minimum of 16 fl oz of this product per acre for sequential applications The combined total of all in crop postemergence treatments must not exceed 96 fl oz per acre

DELTA/MID SOUTH INSTRUCTIONS

Narrow row, drilled, or wide row soybeans An in crop application of this product will provide effective control of the initial stand of labeled weeds A sequential application will be required to control new flushes of weeds For best results an initial application of 32 fl oz per acre on 2-4 inch weeds is recommended Weeds will generally be 2-4 inches tall 2 3 weeks after planting

Initial Treatment

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
2-4	32
5 12	48

Sequential Application (if needed, combined total application in crop not to exceed 96 fl oz per A)

<u>Weed Height (inches)</u>	<u>Rate (fl oz /A)</u>
2 3	16
3 6	24
6-12	32

Hemp sesbania and spurred anoda Apply a sequential treatment of 32 fl oz per acre to weeds 3 6 inches tall if necessary

Some weeds such as black nightshade broadleaf signalgrass Texas panicum burcucumber and sicklepod with multiple germination times may require a sequential application of this product Suppressed or stunted weeds may also require sequential applications Sequential applications should be made after some regrowth has occurred Use a minimum of 16 fl oz of this product per acre for sequential applications The combined total of all in crop postemergence treatments must not exceed 96 fl oz per Acre

PERENNIAL WEEDS APPLICATION RATES

A 32 to 64 fl oz per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as bermudagrass Canada thistle common milkweed field bindweed hemp dogbane horsenettle marestalk (horseweed) nutsedge quackgrass rhizome johnsongrass redvine trumpetcreeper swamp smartweed and wirestem muhly For best results allow perennial weed species to achieve at least 6 inches of growth before spraying with Glyphogan Plus For additional information on perennial weeds see the PERENNIAL WEEDS RATE TABLE on this label For some perennial species repeat applications may be required to eliminate crop competition throughout the growing season

5 7 Sugar Beets with the Roundup Ready® Gene

MAKHTESHIM AGAN NORTH AMERICA RECOMMENDS USE OF THIS PRODUCT FOR APPLICATION ONLY ON SUGAR BEET VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY GENE

SEVERE INJURY OR DEATH OF SOYBEANS WILL RESULT IF ANY SUGAR BEET VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY® GENE ARE SPRAYED WITH THIS PRODUCT AVOID CONTACT OF HERBICIDE WITH FOLIAGE GREEN STEMS OR FRUIT OF CROPS OR ANY DESIRABLE PLANTS AND TREES OTHER THAN CROPS WITH THE ROUNDUP READY® GENE SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT

See the ROUNDUP READY CROPS section of this label for instructions for use in Roundup Ready® sugar beets

TYPES OF APPLICATIONS Preplant At Planting Preemergence Postemergence (In Crop)

RESTRICTIONS Refer to the table below for rate restrictions

Allow a minimum of 30 days between last application and sugar beet harvest For any crop NOT listed in the Crops section of this label applications must be at least 30 days prior to planting

Maximum Allowable Application Rates Per Season	
Combined total per year for all applications	8 quarts per acre
Combined total per year for Preplant Preemergence applications	5 quarts per acre
Combined total from crop emergence through harvest	4.5 quarts per acre
Combined total per year for emergence to 8 leaf stage	2.5 quarts per acre
Combined total per year for 8 leaf stage to canopy closure	2 quarts per acre
Maximum single application rate from emergence to 8-leaf stage	1.5 quarts per acre
Maximum single application rate from 8-leaf stage and canopy closure	1 quart per acre

Preplant, Preemergence, At Planting

USE INSTRUCTIONS This product may be applied before during or after planting of Roundup Ready sugar beets

RESTRICTIONS The maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5.0 quarts per acre per season

Postemergence (In Crop)

USE INSTRUCTIONS To control annual grasses and broadleaf weeds this product may be applied postemergent over the top to Roundup Ready sugar beets from emergence to 30 days prior to harvest To maximize yield potential spray sugar beets early to eliminate competing weeds Up to 4 sequential applications of this product may be made with at least 10 days between applications Refer to the ANNUAL WEEDS RATE TABLES in this label for application rates for specific annual weeds This product will control or suppress most perennial weeds For some perennial weeds repeat applications may be required to eliminate crop competition throughout the growing season

6.0 NON CROP USES AROUND THE FARMSTEAD

TYPES OF APPLICATIONS General Non-Selective Weed Control Trim-and Edge Chemical Mowing Cut Stumps Habitat Management Wildlife Food Plots and Rangelands (Dormant)

General Weed Control, Trim-And Edge

USE INSTRUCTIONS This product may be used to control annual weeds perennial weeds and woody brush which are found in any part of the farmstead including building foundations along and in fences in dry ditches and canals along ditchbanks farm roads shelterbelts prior to landscape plantings and equipment storage areas

TANK MIXTURES This product may be tank mixed with the following products provided that the specific product is registered for use on such non-crop sites Refer to these product labels for approved farmstead sites and application rates For annual weeds use 1 quart per acre of this product when weeds are less than 6 inches tall 1.5 quarts per acre when weeds are greater than 6 inches tall For perennial weeds apply 2 to 5 quarts per acre

in these tank mixes For tank mixtures with these products through backpack sprayers handguns or other high volume spray to wet applications see HAND HELD OR HIGH VOLUME EQUIPMENT under the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for specified rates

Banvel	2 4-D
Diuron	Simazine Simazine 4L Simazine 80W
Princep® Caliber 90	Surflan® 75 W
Surflan® AS/Oryzalin 4 AS	

This product plus dicamba tank mixtures may not be applied by air in California

Chemical Mowing

USE INSTRUCTIONS This product will suppress perennial grasses listed in this section to serve as a substitute for mowing Use 6 to 8 fluid ounces of this product per acre Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass Use 8 fluid ounces of this product per acre when treating tall fescue fine fescue orchardgrass or quackgrass covers Apply treatments in 10 to 20 gallons of spray solution per acre Chemical mowing applications may be made along farm ditches and other parts of farmsteads

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

Cut Stumps

TYPES OF APPLICATION Treating cut stumps in any non crop site listed on this label

USE INSTRUCTIONS This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species some of which are listed below Apply this product using suitable equipment to ensure coverage of the entire cambium Cut trees or resprouts close to the soil surface Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting Delays in application may result in reduced performance For best results applications should be made during periods of active growth and full leaf expansion

Alder	Reed giant
Eucalyptus	Saltcedar
Madrone	Sweetgum
Oak	Tan oak
	Willow

RESTRICTIONS Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump Injury resulting from root grafting may occur in adjacent woody brush or trees

Habitat Restoration and Management

TYPES OF USES Habitat restoration and maintenance wildlife food plots

USE INSTRUCTIONS This product may be used to control exotic and other undesirable vegetation in habitat management areas Applications can be made to allow recovery of native plant species prior to planting desirable native species and for similar broad spectrum vegetation control requirements in habitat management areas Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement The tank mixtures listed in this section of the label may be used for habitat restoration and maintenance

Wildlife Food Plots

USE INSTRUCTIONS This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots Any wildlife food species may be planted after applying this product or

native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage.

Rangelands (Dormant)

USE DIRECTIONS This product will control or suppress many weeds including downy brome, cheatgrass, cereal rye, medusahead rye, and jointed goatgrass in dormant rangelands. Apply 8 to 16 fluid ounces of this product per acre in the early spring when the weeds have greened up, but desirable grasses such as crested and tall wheatgrass are still truly dormant. Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under most soil conditions as effects of this product wear off.

RESTRICTIONS Do not use ammonium sulfate when spraying dormant rangeland grasses with this product. Do not make more than one application per year.

7.0 Christmas Trees

TYPES OF APPLICATION Post Directed, Spot treatment, Site preparation

Post directed, Spot Treatment

USE INSTRUCTIONS This product may be used as a post directed spray and spot treatment around established Christmas trees.

RESTRICTIONS Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. **THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE TOP BROADCAST SPRAY IN CHRISTMAS TREES.** Care must be exercised to avoid contact of spray drift or mist with foliage or green bark of established Christmas trees.

Site Preparation

USE INSTRUCTIONS This product may be used prior to planting Christmas trees.

RESTRICTIONS Precautions should be taken to protect nontarget plants during site preparation applications.

**ANNUAL WEEDS RATE TABLE
(Alphabetically by Species)**

WATER CARRIER VOLUMES OF 3 TO 10 GALLONS PER ACRE FOR GROUND APPLICATIONS AND 3 TO 5 GALLONS PER ACRE FOR AERIAL APPLICATIONS ARE RECOMMENDED

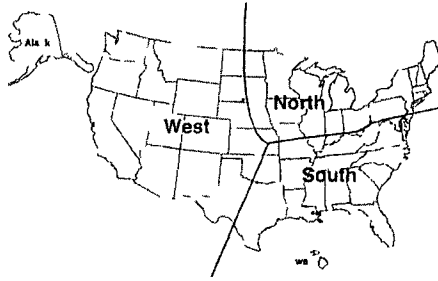
Apply to actively growing annual weeds.

Do not tank mix with soil residual herbicides when using these rates unless otherwise specified.

For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

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.

Refer to the map below for locations of the regions listed in the annual weed tables below.



ANNUAL WEEDS RATE TABLE – NORTH (N) AND SOUTH (S) REGIONS

The table below gives the maximum height or length in inches for various annual weeds which are controlled by Glyphogan Plus at different use rates (fl oz per acre)

WEED SPECIES	REGION	Maximum Weed Height/Length (in inches)					
		RATE OF GLYPHOGAN PLUS					
		(fluid ounces per acre)					
		12	16	24	32	40	48
Annoda spurred			1	2	3	5	8
Barley			18	18 +			
Barnyardgrass	S		3	5	7	9	12
	N			6	12		
Bassia fivehook					6		
Bittercress		-	12	20			-
Bluegrass annual			10		-		-
Brome downy		6	-		-		
Brome Japanese		-	6		24		-
Browntop panicum			6	8	12		24
Burcucumber			-	6	12		
Buttercup			12	20			
Carolina foxtail		-	20	-	-		-
Carolina geranium			-		4		9
Carpetweed		-		6	12		-
Cheat			6	20			-
Chervil			20				-
Chickweed			12	18	-		
Cocklebur			12	18	24		
Copperleaf hophornbeam			1	2	3	4	6
Copperleaf Virginia			1	2	3	4	6
Corn			12	20			
Corn speedwell		-	12	-		-	-
Crabgrass			12	18			-
Cutleaf evening primrose		-			3		6
Dwarfdandelion			20	-			-
Eastern mannagrass			8	12			-
Eclipta			4	8	12		
Fall panicum	S	-	4	6	8	12	24
	N		6	12	18		-
Falsedandelion			20			-	
Falseflax smallseed			12				
Fiddleneck				-	6		12
Field pennycress		-	6	12			-
Filaree				-		-	12
Fleabane annual			6	20			

Fleabane hairy	-					
(<i>Conyza bonariensis</i>)	-	6		-		-
Fleabane rough	-	3	6	12		
Florida pusley	-			12	-	
Foxtail	N	18	18+	-	-	
	S	-	8	12	20	-
Goatgrass jointed	-	6	-	-		
Goosegrass	-	3	5	8	-	18
Grain sorghum (milo)	-	6	12	20	-	
Groundsel common	-	6		-		
Hemp sesbania	-	-	2	4	6	8
Henbit	-	-	-	6		20
Horseweed/ Maretail	N	6	12	18		
(<i>Conyza canadensis</i>)	S		12	30		-
Itchgrass	-	6	12	18	-	-
Jimsonweed	-		6		12	-
Johnsongrass seedling	N		12	18	-	
	S	-		18		
Junglerice	-	3	5	7	9	12
Knotweed	-	3	8	12		20
Kochia **	-		3 to 6	12	-	
Lambsquarters	-	6	8	12	-	20
Little barley	-	20	-	-	-	
London rocket	-	6		-		
Mayweed	-		2	6	12	18
Morningglory (<i>Ipomoea spp</i>)	-		2	4		6
Mustard blue	6		-	-		
Mustard tansy	6	12	20			-
Mustard tumble	6		-			
Mustard wild	6	12	18			
Nightshade black	-	6	12		-	
Nightshade hairy	-	6	12		-	-
Oats	-		6	20		
Pigweed species	-	12	18	24	-	
Plains/Tickseed coreopsis	-	5	12	18	-	-
Prickly lettuce	-	6	12	20	-	
Purslane	-	-	-	6		12
Ragweed common	N	6	12	18	-	-
	S	-	4	6	8	-
Ragweed giant			4	6		11
Red rice			-	4		
Russian thistle			-	6		-
Rye	N		18	18 +	-	
	S		6	20	60	
Ryegrass			-	6	-	7 +
Sandbur field	12	-	-			
Shattercane	-	12	18	-		
Shepherdspurse		6	12			
Sicklepod	-	-	2	4		8
Signalgrass broadleaf		3	5	7	9	12
Smartweed ladythumb	-	4	6	8		12
Smartweed Pennsylvania	-	4	6	8		12
Sowthistle annual		-		6		12
Spanishneedles			-	8		18
Speedwell purslane		12		-		
Sprangletop	-	6	12	20		
Spurge prostrate	-	6	12	20		

Spurge spotted		6	12	20		
Spurry umbrella		6		-		-
Stinkgrass		12	-	-	-	-
Sunflower		12	18	-		-
Teaweed/ Prickly sida		1	2	3	4	6
Texas panicum		-	6	8	12	-
Velvetleaf	N	3	6	12		
	S	2	3	4	5	8
Virginia pepperweed		18	-			
Waterhemp		-	6	12		-
Wheat	N	18	18 +	-		-
	S	6	30	-		-
Wheat (overwintered)		-	6	18	-	-
Wild oats		-	12			-
Witchgrass			12			-
Woolly cupgrass			6	12		-
Yellow rocket		-		12	20	-

Do not treat kochia in the button stage

ANNUAL WEEDS RATE TABLE – WEST REGION

The table below gives the maximum height or length in inches for various annual weeds which are controlled by Glyphogan Plus at different use rates (fl oz per acre)

WEED SPECIES	REGION	Maximum Weed Height/Length (in inches)				
		RATE OF GLYPHOGAN PLUS				
		(fluid ounces per acre)				
		12	16	24	32	48
Barley		12				-
Barnyardgrass		6		-		-
Bluegrass annual		6		-		-
Bluegrass bulbous			6	-		
Brome downy **		6				
Buttercup			12	-		-
Cheat			6			-
Chickweed			6	-		
Cocklebur			12	-	-	
Corn		-	6	-	-	-
Crabgrass		-	12			-
Dwarf dandelion			12	-		-
Fall panicum			12	-		-
Falseflax smallseed		-	12			-
Field pennycress			6	-		-
Filaree		-	-	-		12
Fleabane hairy (Conyza bonariensis)			6	-		
Florida pusley					12	
Foxtail		8 fl oz for up to 12 inches				
Goatgrass jointed		-	6	-		
Groundsel common			6	-		
Henbit			6	-	-	
Horseweed/ Marestail (Conyza canadensis)		-	6	-		-
Johnsongrass seedling		-	12	-		
Lambsquarters			6	-	-	
London rocket			6			

Morningglory (<i>Ipomoea spp</i>)	-	2	-	-
Mustard blue	6	-	-	-
Mustard tansy	6	-	-	-
Mustard tumble	6	-	-	-
Mustard wild	6	-	-	-
Pigweed species		12	-	-
Rye	12	-	-	-
Ryegrass Italian		6	-	-
Sandbur field	12	-	-	-
Shattercane	12	-	-	-
Shepherdspurse	-	6	-	-
Sowthistle annual		6	-	-
Spurge annual	-	6	-	-
Stinkgrass	12	-	-	-
Texas panicum	-	12	-	-
Wheat	18	-	-	-
Wild oats		12	-	-
Witchgrass		12	-	-

For control of downy brome in no-till systems use 16 fluid ounces per acre

Annual Weeds - Rates for 10 to 40 Gallons per Acre

Apply 1 to 5 quarts of this product per acre Use 1 quart per acre if weeds are less than 6 inches tall and 1.5 quarts per acre if weeds are over 6 inches tall These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10 to 40 gallons per acre for ground applications

Annual Weeds Tank Mixtures with 2,4-D or Dicamba

12 to 16 fluid ounces of this product plus 0.25 pounds a.i. of dicamba or 0.5 pounds a.i. of 2,4-D per acre will control the following weeds with the maximum height or length indicated 6 inches - prickly lettuce marehail/horseweed morning glory kochia (dicamba only) 12 inches cocklebur lambsquarters pigweed Russian thistle

16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D per acre will control the following weeds when they are a maximum height or length of 6 inches common ragweed giant ragweed Pennsylvania smartweed and velvetleaf

12 fluid ounces of this product plus 0.25 pounds a.i. of dicamba or 0.5 pounds a.i. 2,4-D per acre will control foxtail up to 18 inches

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures Ensure that the specific product is registered for application at the desired site Some crop injury may occur if dicamba is applied within 45 days of planting

DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA

**PERENNIAL WEEDS RATE TABLE
(Alphabetically by Species)**

Apply to actively growing perennial weeds

NOTE If weeds have been mowed or tilled do not treat until plants have resumed active growth and have reached the recommended stages Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth

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

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

	Amount of Glyphogan Plus to Prepare Different Percent Spray Concentrations					
	½%	1%	1 ½%	2%	5%	10%
Desired Volume						
1 Gal	2/3 oz	1 1/3 oz	2 oz	2 2/3 oz	6 ½ oz	13 oz
25 Gal	1 pt	1 qt	1 ½ qt	2 qt	5 qt	10 qt
100 Gal	2 qt	1 gal	1 ½ gal	2 gal	5 gal	10 gal

2 tablespoons = 1 fluid ounce

Weed Species	Rate (Qt/A)	Water Volume (GPA)	Hand-Held % Solution
Alfalfa	1	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

Alligatorweed	4	3 20	1 5%
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Partial control Apply when most of the plants are in bloom Repeat applications will be required to maintain control

Anise (fennel)	-	-	1 2%
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For hand held apply as a spray to wet treatment Optimum results are obtained when plants are treated at the bud to full bloom stage of growth

Bahiagrass	3 5	3 20	2%
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Apply when most plants have reached the early head stage

Bentgrass	1 5	10 - 20	2%
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For suppression in grass seed production areas For ground applications only Ensure entire crown area has resumed growth prior to a fall application Bentgrass should have at least 3 inches of growth Tillage prior to treatment should be avoided Tillage 7 to 10 days after application is recommended for best results

Bermudagrass	3 5	3 20	2%
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For control apply 5 quarts of this product per acre For partial control apply 3 quarts per acre Treat when Bermudagrass is actively growing and seedheads are present Retreatment may be necessary to maintain control

Bermudagrass, water (knotgrass)	1 1 5	5 10	2%
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Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Apply when water Bermudagrass is 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field.
 Fall applications only. Apply 1 quart of this product in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water Bermudagrass that is 12 to 18 inches in length.
 This product is not registered in California for use on water Bermudagrass.

Bindweed, field	0.5 - 5	3 - 20	2%
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Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.

For control, apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.

Also for control, apply 2 quarts of this product plus 0.5 pounds a.i. of dicamba in 10 to 20 gallons of water per acre. Do not apply by air.

For suppression on irrigated agricultural land, apply 1 to 2 quarts of this product plus 1 pound a.i. of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

For suppression, apply 16 fluid ounces of this product plus 0.5 pounds a.i. of 2,4-D 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.

In California only, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky	1 - 2	3 - 40	2%
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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.

Blueweed, Texas	3 - 5	3 - 40	2%
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Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. 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.

Brackenfern	3 - 4	3 - 40	1 - 1.5%
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Apply to fully expanded fronds that are at least 18 inches long.

Bromegrass, smooth	1 - 2	3 - 40	2%
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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.

Bursage, woolly-leaf		3 - 20	2%
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For control apply 2 quarts of this product plus ½ pound a.i. of dicamba per acre For partial control apply 1 quart of this product plus ½ pound a.i. of dicamba per acre Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering

Canarygrass, reed	2 - 3	3 - 40	2%
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For best results apply when most plants have reached the boot to head stage of growth

Cattail	3 - 5	3 - 40	2%
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Apply when most plants have reached the early head stage

Clover, red or white	3 - 5	3 - 20	2%
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Apply when most plants have reached the early bud stage

Cogongrass	3 - 5	10 - 40	2%
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Apply when cogongrass is at least 18 inches tall in late summer or fall Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage repeat treatments may be necessary to maintain control

Dallisgrass	3 - 5	3 - 20	2%
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Apply when most plants have reached the early head stage

Dandelion	3 - 5	3 - 40	2%
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Apply when most plants have reached the early bud stage of growth

Also for control apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre

Dock, curly	3 - 5	3 - 40	2%
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Apply when most plants have reached the early bud stage of growth

Also for control apply 16 to 32 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre

Dogbane, hemp	4	3 - 40	2%
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Apply when most plants have reached the late bud to flower stage of growth Following crop harvest or mowing allow weeds to regrow to a mature stage prior to treatment For best results apply in late summer or fall For suppression apply 16 fluid ounces of this product plus 0.5 pounds a.i. of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications Delay applications until maximum emergence of dogbane has occurred

Fescue (except tall)	3 - 5	3 - 20	2%
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Apply when most plants have reached the early head stage

Fescue, tall	1 - 3	3 - 40	2%
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Apply 3 quarts of this product per acre when most plants have reached boot to early seedhead stage of development

Fall applications only Apply 1 quart of this product in 3 to 10 gallons of water per acre Apply to fescue in the fall when plants have 6 to 12 inches of new growth A sequential application of 1 pint per acre of this product will improve long-term control and control seedlings germinating after fall treatments or the following spring

Guineagrass	3	3 - 40	1%
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Apply when most plants have reached at least the 7-leaf stage of growth Ensure thorough coverage when using hand held equipment

Horsenettle	3 5	3 20	2%
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Apply when most plants have reached the early bud stage

Horseradish	4	3 40	2%
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Apply when most plants have reached the late bud to flower stage of growth For best results apply in late summer or fall

Iceplant	-	1 5	2%
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Iceplant should be at or beyond the early bud stage of growth Thorough coverage is necessary for best control

Jerusalem artichoke	3 - 5	3 - 20	2%
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Apply when most plants are in the early bud stage

Johnsongrass	0 5 3	3 40	1%
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In annual cropping systems apply 1 to 2 quarts of this product per acre Apply 1 to 2 quarts of this product per acre Apply 1 quart 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 In non crop or areas where annual tillage is not practiced (no till) 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 Do not tank mix with residual herbicides when using 1 quart of this product per acre

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

Kikuyugrass	2 3	3 40	2%
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Spray when most kikuyugrass is at least 8 inches in height (3 or 4 leaf stage of growth) Allow 3 or more days after application before tillage

Knapweed	4	3 40	2%
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Apply when most plants have reached the late bud to flower stage of growth For best results apply in late summer or fall

Lantana	-	1 1	25%
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Apply at or beyond the bloom stage of growth Use the higher application rate for plants that have reached the woody stage of growth

Lespedeza	3 - 5	3 - 20	2%
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Apply when most plants have reached the early bud stage

Milkweed, common	3	3 40	2%
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Apply when most plants have reached the late bud to flower stage of growth

Muhly, wirestem	1 2	3 - 40	2%
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Use 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 or in pasture sod or non crop areas Spray when the wirestem muhly is 8 inches or

more in height Do not till between harvest and fall applications or in the fall or spring prior to spring applications Allow 3 or more days after application before tillage

Mullein, common	3 5	3 - 20	2%
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Apply when most plants are in the early bud stage

Napiergrass	3 5	3 20	2%
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Apply when most plants are in the early head stage

Nightshade, silverleaf	2	3 10	2%
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Applications should be made when at least 60 percent of the plants have berries Fall treatments must be applied before a killing frost

Nutsedge, purple or yellow	0 5 - 3	3 - 40	1 2%
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Apply 3 quarts of this product per acre or apply a 1 to 2 percent solution for control of nutsedge plants and immature nutlets attached to treated plants Treat when plants are in flower or when new nutlets can be found at rhizome tips Nutlets that have not germinated will not be controlled and may germinate following treatment Repeat treatments will be required for long-term control of ungerminated tubers

Sequential applications 1 to 2 quarts of this product in 3 to 10 gallons of water per acre will also provide control Make applications when a majority of the plants are in the 3 to 5 leaf stage (less than 6 inches tall) Repeat this application as necessary when newly emerging plants reach the 3- to 5-leaf stage Subsequent applications will be necessary for long term control

For partial control of existing plants apply 1 pint to 2 quarts of this product in 3 to 40 gallons of water per acre Treat when plants have 3 to 5 leaves and most are less than 6 inches tall Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants

Orchardgrass	1 - 2	3 40	2%
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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

Orchardgrass sods going to no till corn Apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications Allow at least 3 days following application before planting A sequential application of atrazine will be necessary for optimum results

Pampasgrass	-	-	1 5 - 2%
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Pampasgrass should be at or beyond the boot stage of growth Thorough coverage is necessary for best control

Paragrass	3 5	3 20	2%
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Apply when most plants are in the early head stage

Phragmites	3 - 5	10 40	1 2%
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For partial control and for best results treat during late summer or fall when plants are actively growing and in full bloom Treatment before or after this stage may lead to reduced control Due to the dense nature of the vegetation which may prevent good spray coverage or uneven stages of growth repeat treatments may be necessary to maintain control Visual control symptoms will be slow to develop

Poison hemlock	-	-	1 2%
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For hand held apply as a spray to-wet treatment Optimum results are obtained when plants are treated at the bud to full bloom stage of growth Thorough coverage is necessary for best control

Quackgrass	1 3	3 40	2%
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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 Do not tank mix with residual herbicides when using the 1-quart rate 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 non crop areas 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

Redvine	0 75 - 2	5 10	2%
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For suppression apply 24 fluid ounces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre Apply specified rates in 5 to 10 gallons of water per acre Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation Make applications at least 1 week before a killing frost

Reed, giant	-	-	2%
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Best results are obtained when applications are made in late summer to fall

Ryegrass, perennial	1 3	3 - 40	1%
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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 In non-crop or areas where annual tillage is not practiced (no till) 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 Do not tank mix with residual herbicides when using 1 quart of this product per acre

Smartweed, swamp	3 5	3 40	2%
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Apply when most plants have reached the early bud stage of growth Also for control apply 16 fluid ounces of this product plus 0.5 pounds a.i. of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall

Spurge, leafy	-	3 - 10	2%
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For suppression apply 16 fluid ounces of this product plus 0.5 pounds a.i. of 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

Starthistle, yellow	2	10 - 40	2%
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Best results are obtained when applications are made during the rosette bolting and early flower stages

Sweet potato, wild			2%
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For partial control apply to plants that are at or beyond the bloom stage of growth Repeat applications may be required

Thistle, artichoke	-	-	2%
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For partial control apply to plants that are at or beyond the bloom stage of growth Repeat applications may be required

Thistle, Canada	2 3	3 40	2%
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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 in the spring apply 1 quart of this product or 1 pint of this product plus 0.5 pounds a.i. of 2,4-D in 3 to 10 gallons of water per acre 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

Timothy	2 - 3	3 - 40	2%
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For best results apply when most plants have reached the boot to head stage of growth

Torpedograss	4 - 5	3 - 40	2%
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For partial control apply when most plants are at or beyond the seedhead stage of growth Repeat applications will be required to maintain control Fall treatments must be applied before frost

Trumpet creeper	2	5 - 10	2%
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For partial control apply in late September or October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation Make applications at least 1 week before a killing frost

Vaseygrass	3 - 5	3 - 20	2%
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Apply when most plants are in the early head stage

Velvetgrass	3 - 5	3 - 20	2%
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Apply when most plants are in the early head stage

Wheatgrass, western	2 - 3	3 - 40	2%
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For best results apply when most plants have reached the boot to head stage of growth

WOODY BRUSH AND TREES RATE TABLE

Apply this product after full leaf expansion unless otherwise directed Use the higher rate for larger plants and/or dense areas of growth On vines use the higher rate for plants that have reached the woody stage of growth Best results are obtained when application is made in late summer or fall after fruit formation

In arid areas best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering

Allow 7 or more days after application before tillage mowing or removal Repeat treatments may be necessary to control plants regenerating from underground parts or seed Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred Reduced performance may result if fall treatments are made following a frost

Unless otherwise directed apply broadcast treatments in 3 to 40 gallons of water per acre Ensure thorough coverage when using hand held equipment Symptoms may not appear prior to frost or senescence with fall treatments

Weed Species	Rate (Qt/A)	Hand Held % Solution
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* Partial Control

Alder	3 - 4	1 1.5%
Ash *	2 - 5	1 2%

Aspen quaking	2 3	1 1 5%	
Bearmat (Bearclover) *	2 5	1 - 2%	
Beech *	2 5	1 - 2%	
Birch	2	1%	
Blackberry	3 4	1 1 5%	Make applications after plants have reached full leaf maturity Best results are obtained when applications are made in late summer or fall Applications may also be made after leaf drop and until a killing frost or as long as stems are green After berries have set or dropped in late fall blackberry can be controlled by applying a 0.75 percent solution of this product For control of blackberries after leaf drop and until killing frost or as long as stems are green apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre
Blackgum	2 5	1 - 2%	
Bracken	2 5	1 - 2%	
Broom French Scotch		1 5 2%	
Buckwheat California *		1 2%	Thorough coverage of foliage is necessary for best results
Cascara *	2 5	1 2%	
Catsclaw *		1 1 5%	
Ceanothus *	2 5	1 - 2%	
Chamise	-	1%	Thorough coverage of foliage is necessary for best results
Cherry bitter black pin	2 - 3	1 - 1 5%	
Coyote brush	---	1 5 - 2%	Apply when at least 50 percent of the new leaves are fully developed
Dogwood *	2 5	1 2%	
Elderberry	2	1%	
Elm *	2 5	1 2%	
Eucalyptus	-	2%	For control of eucalyptus resprouts apply when resprouts are 6 to 12 feet tall Ensure complete coverage Avoid application to drought stressed plants
Florida holly (Brazilian Peppertree)*	2 5	1 2%	
Orse *	2 5	1 2%	
Hasardia *	-	1 2%	Thorough coverage of foliage is necessary for best results
Hawthorn	2 3	1 - 1 5%	
Hazel	2	1%	
Hickory *	2 5	1 - 2%	
Honeysuckle	3 4	1 - 1 5%	
Hornbeam American *	2 5	1 - 2%	
Kudzu	4	2%	Repeat applications may be required to maintain control
Locust black *	2 4	1 2%	
Madrone resprouts *		2%	Apply to resprouts that are 3 to 6 feet tall Best results are obtained with spring/early summer treatments
Manzanita *	2 - 5	1 - 2%	
Maple red	2 - 4	1 1 5%	Apply a 1 to 1.5 percent solution when at least 50 percent of the new leaves are fully developed

			For partial control apply 2 to 4 quarts of this product per acre
Maple sugar	-	1 1.5%	Apply when at least 50 percent of the new leaves are fully developed
Monkey flower *	-	1 2%	Thorough coverage of foliage is necessary for best results
Oak black white *	2 4	1 2%	
Oak post	3 - 4	1 1.5%	
Oak northern pin		1 1.5%	Apply when at least 50 percent of the new pin leaves are fully developed
Oak southern red	2 - 3	1 1.5%	
Persimmon *	2 5	1 2%	
Pine	2 5	1 2%	
Poison ivy/Poison oak	4 5	2%	Repeat applications may be required to maintain control Fall treatments must be applied before leaves lose green color
Poplar yellow *	2 - 5	1 2%	
Redbud eastern	2 - 5	1 2%	
Rose multiflora	2	1%	Treatments should be made prior to leaf deterioration by leaf eating insects
Russian olive *	2 - 5	1 - 2%	
Sage black		1%	Thorough coverage of foliage is necessary for best results
Sage white *	2 5	1 2%	
Sage brush California	---	1%	Thorough coverage of foliage is necessary for best results
Salmonberry	2	1%	
Saltcedar	2 - 5	1 2%	
Sassafras *	2 - 5	1 2%	
Sourwood *	2 5	1 2%	
Sumac poison smooth winged *	2 4	1 2%	
Sweetgum	2 - 3	1 - 1.5%	
Swordfern *	2 5	1 2%	
Tallowtree Chinese	-	1%	Thorough coverage of foliage is necessary for best results
Tan oak resprouts *	-	2%	Apply to resprouts that are less than 3 to 6 feet tall Best results are obtained with fall applications
Thimbleberry	2	1%	
Tobacco tree *		1 2%	
Trumpet creeper	2 3	1 1.5%	
Vine maple *	2 5	1 2%	
Virginia creeper	2 - 5	1 - 2%	
Waxmyrtle southern *	2 - 5	1 - 2%	
Willow	3	1%	

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STORAGE AND DISPOSAL

PESTICIDE STORAGE

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

PESTICIDE STORAGE Store above 10 F (12°C) to keep product from crystallizing Crystals will settle to the bottom If allowed to crystallize place in a warm room at 68 F (20 C) for several days to redissolve and roll or shake container or recirculate in mini bulk or bulk container to mix well before using
Keep container closed to prevent spills and contamination

PESTICIDE DISPOSAL Wastes resulting from the use of this product that cannot be used or chemically reprocessed must 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

CONTAINER HANDLING

Nonrefillable Container (five gallons or less) Nonrefillable container Do not reuse or refill this container Offer for recycling if available Clean container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

Nonrefillable Container (greater than five gallons) Nonrefillable container Do not reuse or refill this container Offer for recycling if available Clean container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

Refillable Container (greater than 55 gallons) Refillable container Refill this container with glyphosate only Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times For final disposal offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use conditions of warranties and limitations of liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following **CONDITIONS DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY**

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the use of this product Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use or application all of which are beyond the control of Makhteshim Agan of North America Inc All such risks shall be assumed by the user or buyer

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Glyphogan Plus Herbicide (66222 176) (notif to EPA 03 24 11) (Fast Track Amendment to EPA 09 14 2012)