

GLUFOSINATE-AMMONIUM

GROUP

10

HERBICIDE

Total[®] Herbicide

ACTIVE INGREDIENT:

Glufosinate-ammonium 24.5%*

OTHER INGREDIENTS: 75.5%

TOTAL: 100.0%

*Equivalent to 2.34 pounds of active ingredient per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside for additional Precautionary Statements and complete Directions For Use.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

FIRST AID

IF ON SKIN: • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

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

IF SWALLOWED: • Call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Center or doctor or going for treatment. For emergency medical treatment, contact 1-877-424-7452.

NOTE TO PHYSICIAN: If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. You may also contact 1-877-424-7452 for emergency medical treatment information.

EPA Reg. No. 70506-310-1381

EPA Est. No. 41876-IND-003

2/0309/0

NET CONTENTS: 2.5 GALLONS (9.46 L)

Distributed By:
Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164-0589

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- All handlers must wear long-sleeved shirts, long pants, shoes, and socks.
- Applicators using ground boom equipment with open cabs to treat cotton must wear long-sleeved shirts, long pants, shoes, and socks plus chemical resistant gloves.
- Mixer/loaders supporting ground boom applications to corn, canola, soybean, cotton, citrus fruit, pome fruit, stone fruit, and olives must wear long-sleeved shirts, long pants, shoes, and socks plus chemical-resistant gloves.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the 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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present. Do not apply to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters or rinsate.

This pesticide is toxic to vascular plants and must be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Under some conditions, this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, including no till, limited till and contour plowing; these methods also reduce pesticide run-off. Use vegetation filter strips along rivers, creeks, streams, wetlands, etc. or on the downhill side of fields where run-off could occur to minimize water runoff.

DIRECTIONS FOR USE

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

Do not use this product until you have read the entire label. 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 regulation.

In the State of New York Only: Not For Use In Nassau and Suffolk Counties.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry-interval (REI) of 12 hours with the following exceptions:

- Canola, field corn, and soybean scouting - REI of 4 days.
- Do not move irrigation pipe within 7 days of an application for any crop.

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, including plants, soil, or water, is: coveralls worn over short-sleeved shirt and short pants; chemical-resistant gloves including barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, or Viton[®] \geq 14 mils; chemical-resistant footwear plus socks; protective eyewear (goggles, face shield or safety glasses).

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 (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applied when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The application for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS. Keep unprotected persons out of treated areas until sprays have dried.

**IMPORTANT CROP SAFETY
INFORMATION READ BEFORE USING
THIS PRODUCT**

Burndown treatments

For row crop applications in canola, corn, sweet corn, cotton, soybean or sugar beets, Total Herbicide may be applied to any variety as a **burndown treatment prior to planting or prior to crop emergence**.

Post emergent treatments

Post emergence row crop applications of Total Herbicide may be made only to crops resistant to glufosinate. The basis of selectivity of Total Herbicide in glufosinate-resistant crops is the presence of a gene that makes crops not sensitive to glufosinate. **Crops not containing this glufosinate-resistant gene will be sensitive to Total Herbicide and severe crop injury and/or death may occur. Do not allow spray to contact foliage or green tissue of desirable vegetation other than containing the glufosinate-resistant trait.**

Post emergent applications of Total Herbicide may be applied to cotton not containing the Total Herbicide glufosinate-resistant trait using a hooded sprayer.

Tree, Nut, Vine and Berry treatments

When applying Total Herbicide to apples, berries, tree nuts and vines, avoid contact of solution, spray, drift or mist with green bark, stems or foliage, as injury may occur. Only trunks with calloused, mature brown bark may be sprayed unless protected from spray contact by nonporous wraps, grow tubes or waxed containers. Contact of Total Herbicide with parts of trees, berries or vines other than mature brown bark can result in serious damage.

PRODUCT INFORMATION

Total Herbicide is a water-soluble non-selective, broad-spectrum herbicide used for control of annual and perennial grass and broadleaf weeds in a variety of crops. Uses include broadcast burndown applications prior to planting or crop emergence in labeled row crops; and over-the-top applications in canola, corn, cotton, soybeans and sugar beets designated as glufosinate-resistant. Total Herbicide may be used for weed control in non-glufosinate-resistant cotton when applied with a hooded sprayer in-crop.

Total Herbicide may also be applied for potato vine desiccation.

ROTATIONAL CROP RESTRICTIONS*

Rotational crop planting intervals following application of Total Herbicide are listed below. Failure to comply with these restrictions may result in illegal residues in rotated crops.

Rotational Crop	Plant-back Interval (Minimum Rotational Crop Planting Interval from Last Application)
Canola, Sweet Corn, Corn, Cotton, Rice, Soybeans, Sugar Beets	May be planted at any time

Root and Tuber Vegetables, Leafy Vegetables, Brassica Leafy Vegetables, Small Grains (barley, buckwheat, oats, rye, teosinte, triticale, and wheat)	70 Days
All Other Crops	180 Days

*See **Application Directions for Potato Vine Dessication** for Rotational Crop Restrictions specifically after Total Herbicide application to potatoes.

*See **Application Directions for Sugar Beets** for Rotational Crop Restrictions specifically for this crop.

RESISTANCE MANAGEMENT

Herbicide Resistance Management

For resistance management, Total Herbicide is a Group 10 Herbicide.

Any weed population may contain or develop plants naturally resistant to Total Herbicide and other Group 14 herbicides. Weed species with acquired resistance to Group 10 may eventually dominate the weed population if Group 10 herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Total Herbicide or other Group 10 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field. Whenever possible incorporate multiple weed control practices including mechanical cultivation, biological management practices, and crop rotation.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Fields should be scouted before application to identify the weed species present and their growth stage to determine if the intended application will be effective. Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action (MOA), if available. Treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes. To the extent possible do not allow weed escapes to produce seeds, roots, or tubers.

Contact your local extension specialist, certified crop advisors, and/or manufacturer for additional herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes. Report any incidence of non-performance of this product against a particular weed species to your retailer or Winfield Solutions, LLC representative.

WEEDS CONTROLLED

The following weeds controlled charts are outlined by crop or crop group.

Volunteer glufosinate-resistant crop plants (i.e. corn, cotton, soybeans, canola) from the previous season will not be controlled by applications of Total Herbicide.

WEEDS CONTROLLED TABLE – ROW CROPS

Rates in fluid ounces of formulated product per acre. See **APPLICATION INSTRUCTIONS AND CROP USE DIRECTIONS** for specific use directions.

Broadleaf Weeds Controlled (including glyphosate, triazine, PPO, ALS, HPPD and auxin-resistant biotypes)		
Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Amaranth, Palmer ⁴	Not Advised	C
Anoda, spurred	C	C
Beggarweed, Florida	C	C
Black medic	C	C
Bluweed, Texas	C	C
Buckwheat, wild	C	C
Buffalobur	C	C
Burcucumber	C	C
Carpetweed	C	C
Catchweed bedstraw (cleavers)	C	C
Chickweed, common	C	C
Cocklebur, common	C	C
Copperleaf, hophornbeam	C	C
Cotton, volunteer ¹	C	C
Croton, tropic	C	C

**Broadleaf Weeds Controlled (including glyphosate, triazine,
PPO, ALS, HPPD and auxin-resistant biotypes)**

Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Croton, woolly	C	C
Devil's claw	C	C
Eclipta	C	C
Fleabane, annual	C	C
Galinsoga, hairy	C	C
Galinsoga, small flower	C	C
Geranium, cutleaf	C	C
Groundcherry, cutleaf	C	C
Hempnettle	C	C
Horsenettle, Carolina ²	C	C
Jimsonweed	C	C
Knotweed	C	C
Kochia	C	C
Ladysthumb	C	C
Lambsquarters, common	Suppression	C
Mallow, common	C	C
Mallow, Venice	C	C
Marestail	Suppression	C
Marshelder, annual	C	C
Morningglory, entireleaf	C	C
Morningglory, ivyleaf	C	C
Morningglory, pitted	C	C

**Broadleaf Weeds Controlled (including glyphosate, triazine,
PPO, ALS, HPPD and auxin-resistant biotypes *(continued)*)**

Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Morningglory, sharppod	C	C
Morningglory, smallflower	C	C
Morningglory, tall	C	C
Mustard, wild	C	C
Nightshade, black	C	C
Nightshade, eastern black	C	C
Nightshade, hairy	C	C
Pennycress (stinkweed)	C	C
Pigweed, prostrate	C	C
Pigweed, redroot	C	C
Pigweed, smooth	C	C
Pigweed, spiny	C	C
Pigweed, tumble	C	C
Puncturevine	C	C
Purslane, common	C	C
Pusley, Florida	Suppression	C
Ragweed, common	C	C
Ragweed, giant	C	C
Senna coffee	C	C
Sesbania, hemp	C	C
Shepherdspurse	C	C
Sicklepod (java bean)	C	C
Sida, prickly	C	C

Broadleaf Weeds Controlled (including glyphosate, triazine, PPO, ALS, HPPD and auxin-resistant biotypes) (continued)		
Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Smartweed, Pennsylvania	C	C
Smellmelon	C	C
Sowthistle, annual	C	C
Soybeans, volunteer ¹	C	C
Spurge, prostrate	C	C
Spurge, spotted	C	C
Starbur, bristly	C	C
Sunflower, common	C	C
Sunflower, prairie	C	C
Sunflower, volunteer	C	C
Thistle, Russian	Suppression	C
Velvetleaf ²	C	C
Waterhemp, common ⁴	Not Advised	C
Waterhemp, tall ⁴	Not Advised	C

C = Control

*Use the higher rate when treating larger/taller weeds.

¹ Volunteer glufosinate-resistant crops from the previous season will not be controlled.

² May require sequential application for control.

³ For optimal control, make applications between dawn and 2 hours before sunset.

⁴ For optimal control, make applications when weeds are on the smaller size.

**Grass Weeds Controlled (including glyphosate, triazine, PPO,
ALS, HPPD and auxin-resistant biotypes)**

Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Barley, volunteer ³	C	C
Barnyardgrass	C	C
Bluegrass, annual	C	C
Corn, volunteer ¹	C	C
Crabgrass, large ²	C	C
Crabgrass, smooth ²	C	C
Cupgrass, woolly	C	C
Foxtail, bristly	C	C
Foxtail, giant	C	C
Foxtail, green	C	C
Foxtail, robust purple	C	C
Foxtail, yellow ²	C	C
Goosegrass ³	C	C
Johnsongrass, seedling	C	C
Junglerice	C	C
Millet, proso volunteer	C	C
Oat, wild ²	C	C
Panicum, fall	C	C
Panicum, Texas	C	C
Rice, red	C	C
Rice, volunteer ¹	C	C

**Grass Weeds Controlled (including glyphosate, triazine, PPO,
ALS, HPPD and auxin-resistant biotypes)**

Weed Species	22 - 29 fl oz/A (0.40 - 0.53 lb ai/A)	29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*
Sandbur, field ²	Suppression	C
Shattercane	C	C
Signalgrass, broadleaf	C	C
Sorghum, volunteer	C	C
Sprangletop	C	C
Stinkgrass	C	C
Wheat, volunteer ²	C	C
Witchgrass	C	C

C = Control

*Use the higher rate when treating larger/taller weeds.

¹ Volunteer glufosinate-resistant crops from the previous season will not be controlled. A timely cultivation 7 -10 days after an application and/or retreatment 10 -21 days after the first application will aid in controlling dense clumps of volunteer corn.

² For best control of yellow foxtail, field sandbur, crabgrass, and wild oats, treat prior to tiller initiation.

³ A sequential application may be necessary for control.

Biennial and Perennial Weed Control (including glyphosate, triazine, PPO, ALS, HPPD and auxin-resistant biotypes)

For control of the biennial and perennial weeds listed below, use tank mixes or sequential applications of Total Herbicide

29 - 43 fl oz/A (0.53 - 0.79 lb ai/A)*

Alfalfa	Clover, Alsike	Nutsedge, purple ^s
Artichoke, Jerusalem	Clover, red	Nutsedge, yellow ^s
Bermudagrass	Dandelion	Orchardgrass
Bindweed, field	Dock, smooth ^s	Poinsettia, wild
Bindweed, hedge	Dogbane, hemp ^s	Pokeweed
Bluegrass, Kentucky	Goldenrod, gray ^s	Quackgrass ^s
Blueweed, Texas	Johnsongrass, rhizome	Southistle, perennial
Bromegrass, smooth	Milkweed, common ^s	Thistle, bull
Burdock	Milkweed, honeyvine ^s	Thistle, Canada
Bursage, woolyleaf	Muhly, wirestem ^s	Timothy ^s
Chickweed, Mouse-ear	Nightshade, silverleaf	Wormwood, biennial

^s Suppression

*Use the higher rate when treating larger/taller weeds.

WEEDS CONTROLLED TABLE – SUGAR BEETS

Apply 15 - 30 fl oz (0.3 - 0.55 lb ai) of Total Herbicide per acre for the control of weeds shown in the following tables. Use the higher rate when treating larger/taller weeds. For improved control of heavy populations or larger volunteer wheat, volunteer barley, yellow foxtail, and wild oats, Total Herbicide can be tank mixed with products containing quizalofop p-ethyl, sethoxydim, or clethodim.

Grass Weed Species

Barley, volunteer	Foxtail, giant	Panicum, fall
Barnyardgrass	Foxtail, green	Panicum, Texas
Corn, volunteer	Foxtail, yellow	Sandbur, field
Crabgrass, large	Millet, volunteer proso	Wheat, volunteer
Crabgrass, smooth	Millet, wild proso	
Cupgrass, woolly	Oat, wild	

Perennial Weed Species

Quackgrass	Southistle, perennial	Thistle, Canada
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Broadleaf Weed Species		
Buckwheat, wild Buffalobur Carpetweed Chickweed, common Cocklebur, common Kochia Ladysthumb Lambsquarter, common Mallow, Venice	Marshelder Mustard, wild Nightshade, eastern black Pigweed, prostrate Pigweed, redroot Pigweed, smooth Pigweed, spiny Purslane, common	Ragweed, common Ragweed, giant Shepherdspurse Smartweed, Pennsylvania Sowthistle, annual Sunflower, common Thistle, Russian Velvetleaf

WEEDS CONTROLLED TABLE – TREE FRUIT, TREE NUTS, VINES, AND BERRIES

Rates in fluid ounces of formulated product per acre for the control of weeds at selected heights. In weed populations with mixed species, apply at a rate needed for the species that requires the highest rate. See **APPLICATION INSTRUCTIONS AND CROP USE DIRECTIONS** for specific use directions. Apply as a broadcast, banded, or spot treatment application depending on the situation to control weeds listed. Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat applications of Total Herbicide may be necessary to control plants generating from underground part or seed.

Weed Height in Inches	Use Rate/A	
Weeds < 3" in height	48 fl oz/A (0.88 lb ai/A)	
Weeds < 6" in height	56 fl oz/A (1.02 lbs ai/A)	
Weeds > 6" in height and/or grasses that have tillered	56 - 82 fl oz/A (1.02 - 1.50 lbs ai/A)	
Broadleaf Weed Control		
Alkali sida Ammannia, purple Arrowhead, California Buckwheat, wild Buffalobur Burclover, California Carpetweed Chickweed, common Chinese thornapple Cocklebur, common Copperleaf, Virginia Cudweed Cutleaf evening primrose Dodder Eclipta Fiddleneck Filaree	Henbit Jimsonweed Knotweed Kochia Lambsquarters, common ¹ Lettuce, miner's Lettuce, prickly London rocket Mallow, common Malva (little mallow) Marestail Mayweed Morningglory, entireleaf Morningglory, ivyleaf Morningglory, pitted Mullein, turkey Mustard, wild	Pineapple weed Puncturevine Purslane, common Radish, wild Ragweed, common Ragweed, giant Redmaids Shepherdspurse Smartweed, Pennsylvania Sowthistle, annual Spurge, prostrate Starthistle, yellow Sunflower, common Sunflower, prairie Sunflower, volunteer Swinecress Thistle, Russian

Filaree, redstem Fleabane, annual Goosefoot Gromwell, field Groundcherry, cutleaf Groundsel, common	Nettle Nightshade, black Nightshade, eastern black Nightshade, hairy Pennygrass Pigweed, redroot	Turnip, wild Velvetleaf ¹ Vervain Vetch Virginia copperleaf Willowherb, panicle
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¹For optimal control, make applications between dawn and 2 hours before sunset.

Grass Weed Control		
Barnyardgrass	Foxtail, giant	Rush, toad [§]
Bluegrass, annual	Foxtail, green	Ryegrass, annual ¹
Brome, rigput	Foxtail, yellow	Sandbur, field
Bromegrass, downy	Goosegrass	Shattercane
Canarygrass	Johnsongrass, seedling	Sprangletop
Chess, soft	Junglerice	Stinkgrass
Crabgrass, large	Oat, wild	Wheat, volunteer
Crabgrass, smooth	Panicum, fall	Windgrass
Cupgrass, woolly	Panicum, Texas	Witchgrass

[§]Suppression

Apply to annual ryegrass prior to 3 inches in height.

Biennial and Perennial Weed Control		
Aster, white heath	Dogbank (hemp)	Plantain
Bindweed, field	Fescue	Poison ivy/oak
Bindweed, hedge	Goldenrod, gray	Quackgrass
Bluegrass, Kentucky	Guineagrass	Rocket, yellow
Bromegrass, smooth	Horsetail	Rose, wild
Bulrush	Lovegrass	<i>Rubus</i> spp.
Burdock	Mugwort	Spurge, leafy
Canada thistle	Mullein, common	Thistle, bull
Clover, Alsike	Mustard, tansy	Thistle, musk
Clover, red	Nutsedge, purple	Torpedograss
Clover, white	Nutsedge, yellow	Vaseygrass
Dallisgrass	Onion, wild	Woodsorrel
Dandelion	Orchardgrass	Yarrow, common
Dock, curly	Paragrass	

APPLICATION AND MIXING PROCEDURES

Uniform, thorough spray coverage is important to achieve consistent weed control. The use of surfactants and the addition of AMS may improve weed control. Please note that addition of MSO may cause antagonism and reduce overall performance.

Refer to the **WEEDS CONTROLLED** tables or **APPLICATIONS INSTRUCTIONS AND CROP USE DIRECTIONS** for application rates.

Ground Application: Apply early when weeds are small.

Apply in a minimum of 15 gallons of water per acre. Increase to a maximum of 40 gallons of water per acre if dense weed canopy exists or as required by climatic conditions.

Aerial Application: Apply early when weeds are small.

Thorough coverage is necessary for best weed control. For optimal weed control, apply Total Herbicide in a minimum of 10 gallons per acre. See the **MANDATORY SPRAY DRIFT MITIGATION** section for additional information on proper application of Total Herbicide.

DO NOT use flood jet nozzles, controlled droplet application equipment, or air-assisted spray equipment.

COMPATIBILITY TESTING

If Total Herbicide will be mixed with other pesticide products, test the compatibility of the intended tank mixture before mixing the products in the spray tank. The following procedure assumes a spray volume of 25 gallons per acre. For other spray volumes, adjust the amount of the water used accordingly. Check compatibility using this process:

1. In a clear 1-quart jar, place 1.0 pint of water from the source that will be used to prepare the spray solution.
2. For each pound of a dry tank mix partner to be applied per acre, add 1.5 teaspoons to the jar.
3. For each 16 fl oz of a liquid tank mix partner to be applied per acre, add 0.5 teaspoon to the jar.
4. For each 16 fl oz of Total Herbicide to be applied per acre, add 0.5 teaspoon to the jar.
5. After adding all the ingredients, place a lid on the jar and tighten, then invert 10 times to mix.
6. Allow the mixture to stand for 15 minutes, then evaluate the solution for uniformity and stability. Look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. If the tank mix partners are not compatible, **DO NOT** use the mixture in a spray tank.
7. Once compatibility testing is complete, dispose of any pesticide wastes in accordance with the **STORAGE AND DISPOSAL** section of this label.

MIXING INSTRUCTIONS

Tank Mix Instructions: Total Herbicide may be applied in tank mix combinations with labeled rates of other products. Use the tank mix partner in accordance with label limitations and restrictions. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Total Herbicide must be applied with properly calibrated and clean equipment. Total Herbicide is formulated to mix readily in water. Prior to adding Total Herbicide to the spray tank, ensure that the spray tank is thoroughly clean, particularly if a herbicide with the potential to injure crops was previously used (see **CLEANING INSTRUCTIONS**).

Mix Total Herbicide with water to make a finished spray solution as follows:

1. Fill the spray tank half full with water.
2. Begin agitation.
3. If mixing with a flowable/wettable powder tank mix partner, prepare a slurry of the proper amount of the product in a small amount of water. Add the slurry to the spray tank.
4. Add the appropriate amount of ammonium sulfate (AMS) to the spray tank.
5. If mixing with a liquid tank mix partner, add the liquid mix partner next.
6. Complete filling the spray tank with water.
7. Add the proper amount of Total Herbicide and continue agitation.
8. If foaming occurs, use a silicone-based antifoam agent.

Ensure that all spray system lines including pipes, booms, etc. have the correct concentration of spray solution by flushing out the spray system lines before starting the crop application.

If tank mix partners are added, maintain good agitation at all times until contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to re-suspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzles or line strainers must be 50 mesh or larger.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

CLEANING INSTRUCTIONS

Before using Total Herbicide, thoroughly clean bulk storage tank, refillable tank, nurse tanks, spray tank, lines, and filter, particularly if a herbicide with the potential to injure crops was previously used. Ensure that equipment is thoroughly rinsed using a commercial tank cleaner.

After using Total Herbicide, triple rinse the spray equipment and clean with a commercial tank cleaner before using for crops not labeled as glufosinate-resistant. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed following the pesticide disposal directions on this label.

MANDATORY SPRAY DRIFT MITIGATION

Ground Boom Applications:

- Spray at the appropriate boom height based on nozzle selection and nozzle spacing, but **DO NOT** exceed a boom height of 24 inches above target pest or crop canopy. Set boom to lowest effective height over the target pest or crop canopy based on equipment manufacturer's directions. Automated boom height controllers are recommended with large booms to better maintain optimum nozzle to canopy height. Excessive boom height will increase the potential for spray drift.
- For non-crop vegetation management ground applications, apply with the nozzle height no more than 4 feet above the ground or target vegetation, unless necessitated by the application equipment. Examples would include roadside, railroad, utility rights of way, forestry and other industrial vegetation management applications where safety or natural barriers obstruct application.
- Select nozzle and pressure that deliver medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Aerial Applications:

- When applying aerially to crops, **DO NOT** release spray at a height greater than 10 feet above the crop canopy, unless a greater application height is necessary for pilot safety.
- Select nozzle and pressure that deliver medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1.
- When applying to crops via aerial application equipment, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor blade vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- When applying to crops via aerial application equipment, applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

SPRAYDRIFT ADVISORIES

POLLINATOR ADVISORY STATEMENT: This product contains an herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to non-target plants adjacent to the treated site which may serve as habitat or forage for pollinators.

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

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. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY, OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS (SEE WIND, TEMPERATURE AND HUMIDITY, and TEMPERATURE INVERSIONS sections of this label.**

Controlling Droplet Size- Ground Boom

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **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.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations. **AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.**
- **Nozzle Type** - Solid stream nozzles (including disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - Longer booms increase drift potential. Therefore, a shorter boom length is recommended.
- **Application Height** - Application more than 10 feet above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

DRIFT REDUCTION TECHNOLOGY (DRT)

The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available: <https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reduction-technologies>.

WIND: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.**

NOTE: Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY: When making applications in hot and dry conditions, set-up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain close to the ground and move laterally in a concentrated cloud. 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.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

APPLICATION INSTRUCTIONS AND CROP USE DIRECTIONS

The following tables indicate use patterns, rates, minimum spray volumes, preharvest intervals and other precautions, restrictions and comments specific to each crop. Read and follow directions carefully.

Total Herbicide is a foliar active herbicide with no soil residual activity. For best results, apply to emerged, young, actively growing weeds, targeting weeds less than 3" in height. Warm temperatures, high humidity and bright sunlight improves the performance of Total Herbicide. Necrosis of leaves and young shoots occurs within 2 to 4 days after application under growing conditions.

Weeds that emerge after application will not be controlled. Total Herbicide will have an effect on these weeds that are larger than the recommended leaf stage, however, speed of activity and control may be reduced.

Weed control may be reduced if application is made when heavy dew, fog, mist or rain are present or when weeds are under stress due to drought, cool temperatures, or extended periods of cloudiness.

When applying for control of lambsquarters and velvetleaf, make applications between dawn and 2 hours before sunset to avoid the possibility of reduced control.

The addition of ammonium sulfate at 1.5 – 3.0 lbs/acre may improve weed control. Rates are dependent on tank mix partners, environmental conditions, temperatures and potential for leaf burn.

Spray volume of 15 gallons of water per acre minimum. If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to 20 gallons of water per acre.

For optimal yield, early season weed removal is important.

To maximize weed control, do not cultivate from 5 days before an application to 7 days after an application.

Total Herbicide is rainfast 4 hours after application; therefore, rainfall within 4 hours may necessitate retreatment.

Consult your local Cooperative Extension Service for guidelines on optimum application timing for Total Herbicide in your region.

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
<p>COTTON OPTION 1 (choose one of two scenarios)</p>	<p>Burndown (Prior to Planting or Prior to Crop Emergence) In-Season (Post Emergent to the Crop)</p>	<p><u>1st application</u> 29 – 43 fl oz/A (0.53 – 0.79 lb ai/A)</p> <p><u>2nd application</u> 22– 29 fl oz/A (0.40 – 0.53 lb ai/A)</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. When applying In-Season to non-Glufosinate-resistant cotton, a hooded sprayer must be used. Refer to APPLICATION METHODS – COTTON NOT DESIGNATED AS GLUFOSINATE-RESISTANT.. Post Emergent application: apply from crop emergence to early bloom stage. Severe injury or death may result if the Total Herbicide contacts the foliage or stems of cotton NOT labeled as glufosinate-resistant.</p>	<p>In-Season DO NOT apply to cotton in Florida, South of Tampa (Florida Route 60), or in Hawaii, except for test plots or breeding nurseries. DO NOT apply within 70 days of harvest. DO NOT apply through any type of irrigation system. Scenario 1 Allows: One Burndown application at 29 fl oz (0.53 lb ai)/A PLUS Two In-season applications each at 29 fl oz (0.53 lb ai)/A, no closer than 10 days apart. Under Scenario 1 DO NOT apply more than 87 fl oz (1.59 lbs ai)/A per year. Scenario 2 Allows: One In-season application at 32 - 43 fl oz (0.59 - 0.79 lb ai)/A PLUS One In-season application at 29 fl oz (0.53 lb ai)/A, no closer than 10 days apart.</p>

				Under Scenario 2 DO NOT apply more than 72 fl oz (1.32 lbs ai)/A per year.
COTTON OPTION 2 Up to 3 applications (choose one of two use scenarios)	Burndown (Prior to Planting or Prior to Crop Emergence) In-Season (Post Emergent to the Crop)	<u>1st application</u> 22 – 29 fl oz/A (0.40 – 0.53 lb ai/A) <u>2nd application</u> 22 – 29 fl oz/A (0.40 – 0.53 lb ai/A) <u>3rd application</u> 22– 29 fl oz/A (0.40 – 0.53 lb ai/A)	If first application is a burndown application, apply at the highest 1st application use rate. Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. When applying In-Season to non-glufosinate -resistant cotton, a hooded sprayer must be used. Refer to APPLICATION METHODS – COTTON NOT DESIGNATED AS GLUFOSINATE-RESISTANT. Post Emergent application: apply from crop emergence to early bloom stage. Severe injury or death may result if the Total Herbicide contacts the foliage or stems of cotton NOT labeled as glufosinate-resistant .	In-Season DO NOT apply to cotton in Florida, South of Tampa (Florida Route 60), or in Hawaii, except for test plots or breeding nurseries. Scenario 1 Allows: One Burndown application at 30 - 43 fl oz (0.55 - 0.79 lb ai)/A PLUS One In-season application at 29 fl oz (0.53 lb ai)/A. Under Scenario 1 DO NOT apply more than 72 fl oz (1.32 lbs ai)/A per year. Scenario 2 Allows: Three In-season applications each at 29 fl oz (0.53 lb ai)/A, no closer than 10 days apart. Under Scenario 2 DO NOT apply more than 87 fl oz (1.59 lbs ai)/A per year. DO NOT apply more than 29 fl oz

				(0.53 lbs ai)/A in any single application.
<p>COTTON: If environmental conditions prevent a timely herbicide application resulting in large weeds or heavy infestations, a single application of up to 43 fl oz (0.79 lb ai) per acre of Total Herbicide may be made to cotton. DO NOT apply more than 43 fl oz (0.79 lb ai) in a single application under this use scenario. If a single application of 43 fl oz (0.79 lb ai) per acre is made, a subsequent application not to exceed 29 fl oz (0.53 lb ai) may be made to cotton. The yearly total under this scenario may not exceed 72 fl oz (1.32 lb ai) per acre including all application timings. Make sequential applications at least 10 days apart.</p> <p>*Apply the higher rate to control larger weeds growing in the crop at the time of harvest.</p> <p>- Refer to WEEDS CONTROLLED – ROW CROPS for proper application rate for specific weeds.</p> <p>- Refer to APPLICATION METHODS – COTTON NOT DESIGNATED AS GLUFOSINATE-RESISTANT when making In-Season applications to glufosinate-resistant cotton.</p>				
COTTON	Post harvest Burndown (After Cotton Harvest)	29 – 43 fl oz/A (0.53 – 0.79 lb ai/A)	Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control.	DO NOT apply through any type of irrigation system. DO NOT apply more than 43 fl oz (0.79 lbs ai)/A in any single application. DO NOT apply more than once per acre per year as a post-harvest burndown application. DO NOT apply more than 87 fl oz (1.59 lbs ai)/A through any combinations of use patterns per year. If any single application is made at more than 29 fl oz (0.53 lb ai)/A, DO NOT apply more than 72 fl oz (1.32 lb ai)/A per year.

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
CORN Field, Silage, Sweet	Burndown (Prior to Planting or Prior to Crop Emergence)	29–43 fl oz/A (0.53 – 0.79 lb ai/A)	Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control.	DO NOT apply more than 43 fl oz (0.79 lb ai)/A in any single application as a burndown treatment. DO NOT apply more than once per acre per year under this use pattern.
CORN Field, Silage	In-Season to glufosinate- resistant Corn Only (Post Emergent to the Crop)	22 - 43 fl oz/A (0.40 – 0.79 lb ai/A) A second In- Season application may be needed to control weeds that have not yet emerged at time of application.	Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Post Emergent application: apply from emergence up to V6 stage of growth. For corn 24" to 36" tall, only apply using ground application and nozzles and avoid spraying into the whorl or leaf axils of the corn stalks. Must be applied with ammonium sulfate (AMS).	DO NOT apply more than 2 In- season applications per acre per year, and DO NOT apply closer than 7 days apart. DO NOT apply more than 43 fl oz (0.79 lb ai)/A in any single application. DO NOT apply within 60 days of harvesting corn forage, and within 70 days of harvesting corn grain or corn fodder. DO NOT apply through any type of irrigation system. DO NOT apply more than 87 fl oz (1.59 lb ai)/A through any combination of use patterns per year. DO NOT use nitrogen solutions as spray carriers.

				<p>A silicone-based anti-foam agent may be added if needed.</p> <p>DO NOT apply if corn shows injury from environmental stress or prior herbicide applications.</p>
<p>CORN Sweet</p>	<p>In-Season glufosinate-resistant Sweet Corn Only (Post Emergent to the Crop)</p>	<p>22 fl oz/A (0.40 lb ai/A) A second In-Season application may be needed to control weeds that have not yet emerged at time of application.</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control.</p> <p>Post Emergent application: Apply from emergence up to V6 stage of growth. Must be applied with ammonium sulfate (AMS).</p>	<p>If used as a burndown application, no In-Season applications may be applied.</p> <p>DO NOT apply more than 2 In-season applications per acre per year and DO NOT apply closer than 7 days apart.</p> <p>DO NOT apply more than 22 fl oz (0.40 lb ai)/A in any single application.</p> <p>DO NOT apply within 50 days of harvesting sweet corn ears and within 55 days of harvesting stover.</p> <p>DO NOT apply through any type of irrigation system.</p> <p>DO NOT apply more than 44 fl oz (0.80 lb ai)/A through any combination of use patterns per year.</p>

				<p>DO NOT use nitrogen solutions as spray carriers. A silicone based anti-foam agent may be added if needed.</p> <p>DO NOT apply if corn shows injury from environmental stress or prior herbicide applications.</p>
<p>- For best results use only fine feed grade or spray grade AMS at 3 lbs/A (17 lbs/100 gallons). When temperatures exceed 85°F, the rate of AMS can be reduced to 1.5 lbs/A (8.5 lbs/100 gallons) to reduce potential leaf burn. Use of additional surfactants or crops oils may increase risk of crop response.</p> <p>- Refer to WEEDS CONTROLLED – ROW CROPS for proper application rate for specific weeds.</p>				

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
CANOLA	<p>Burndown (Prior to Planting or Prior to Crop Emergence)</p>	29 – 43 fl oz/A (0.53 – 0.79 lb ai/A)	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control.</p>	<p>DO NOT apply more than once as a burndown application. If used as a burndown application, no In-Season applications may be applied.</p> <p>DO NOT make more than 2 In-season applications per year, and DO NOT apply closer than 7 days apart. Maximum Single Application: Burndown 43 fl oz (0.79 lb ai)/A; In-season 29 fl oz (0.53 lb ai)/A.</p> <p>DO NOT apply In-Season in states of AL, DE, GA, KY,</p>
	<p>In-Season to glufosinate-resistant Canola Only (Post Emergent to the Crop)</p>	<p>29 fl oz/A (0.53 lb ai/A) A second In-Season application may be needed to control weeds that have not yet emerged at time of application.</p>	<p>Post Emergent application: Apply from cotyledon stage up to early bolting stage. Slight discoloration of the canola may be visible after application. This effect is temporary and will not influence crop growth, maturity, or yield. May be applied with feed grade or spray grade ammonium sulfate (AMS) at 3 lbs/A. Additional surfactants or crop oils may increase risk of crop response.</p>	

				<p>MD, NC, NJ, SC, TN, VA, WV.</p> <p>DO NOT apply within 65 days of harvest.</p> <p>DO NOT graze the treated crop or cut for hay.</p> <p>DO NOT apply through any type of irrigation system.</p> <p>DO NOT apply more than 87 fl oz (1.59 lb ai)/A through any combination of use patterns per year.</p> <p>DO NOT apply if canola shows injury from environmental stress or prior herbicide applications.</p>
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- Refer to **WEEDS CONTROLLED – ROW CROPS** for proper application rate for specific weeds.

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
SOYBEAN	<p>Burndown (Prior to Planting or Prior to Crop Emergence)</p> <p>In-Season to glufosinate-resistant Soybeans Only (Post Emergent to the Crop)</p>	<p><u>1st application</u> 29 – 43 fl oz/A (0.53 – 0.79 lb ai/A)</p> <p><u>2nd application</u> 22 – 43 fl oz/A (0.40 – 0.79 lb ai/A)</p>	<p>Apply to emerged, young, actively growing weeds.</p> <p>Uniform, thorough spray coverage is necessary to achieve consistent weed control.</p> <p>A silicone-based antifoam agent may be added if needed.</p> <p>Post Emergent application: apply from crop emergence up to bloom or R1 growth stage.</p>	<p>DO NOT apply more than 43 fl oz (0.79 lb ai)/A in a single application.</p> <p>DO NOT make more than two applications per year through any combination of burndown and In-season applications, and DO NOT apply closer than 5 days apart.</p> <p>DO NOT apply within 70 days of harvesting soybean seed.</p>

				<p>DO NOT graze the treated crop or cut for hay.</p> <p>DO NOT apply through any type of irrigation system.</p> <p>DO NOT apply more than 87 fl oz (1.59 lbs ai)/A through any combination of use patterns per year.</p> <p>DO NOT use nitrogen solutions as spray carriers.</p> <p>DO NOT apply if soybeans show injury from environmental stress or prior herbicide applications.</p>
- Refer to WEEDS CONTROLLED – ROW CROPS for proper application rate for specific weeds.				

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
SUGAR BEETS	<p>Burndown (Prior to Planting or Prior to Crop Emergence)</p> <p>In-season to glufosinate-resistant Sugar Beets Only (Post Emergent to the Crop)</p>	<p>29 – 36 fl oz/A (0.53 – 0.66 lb ai/A)</p> <p>29 fl oz/A (0.53 lb ai/A) A second In-season application may be needed to control weeds that have not yet emerged at time of application.</p>	<p>Apply to emerged, young, actively growing weeds.</p> <p>For best control begin application when weeds are up to 1 inch in height or diameter. Repeat applications when newly germinated weeds again reach 1 inch in height or diameter.</p> <p>Uniform, thorough spray coverage is necessary to achieve consistent weed control.</p> <p>Post Emergent Application: Apply from cotyledon stage up to 10 leaf stage of sugar beet.</p>	<p>If used as burndown, no In-season applications may be applied.</p> <p>DO NOT make more than two In-season applications per year and DO NOT apply closer than 10 days apart.</p> <p>DO NOT apply more than:</p> <p>Burndown 36 fl oz (0.66 lb ai)/A; In-season 30 fl oz (0.55 lb ai)/A in a single application.</p> <p>DO NOT apply within 60 days of harvesting sugar beets.</p>

				<p>DO NOT plant rotation crops in a field treated with Total Herbicide within 120 days after the last application of this product with the exception of wheat, barley, buckwheat, millet, oats, rye, sorghum, and triticale, which may be planted 70 days after the last application of this product. Crops listed on this label may be planted at any time.</p> <p>DO NOT graze the treated crop or cut for hay.</p> <p>DO NOT apply product through any type of irrigation system.</p> <p>DO NOT apply more than 60.0 fl oz/A (1.10 lbs ai/A) through any combination of use patterns per year.</p> <p>DO NOT add surfactants. Anti-foams or drift control agents may be added if needed.</p> <p>DO NOT apply if sugar beets show injury from environmental stress or prior herbicide applications.</p>
<p>- Refer to WEEDS CONTROLLED – ROW CROPS for proper application rate for specific weeds.</p>				

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
<p>POME FRUIT (Crop Group 11-10) Apples, Crabapple, Loquat, Mayhaw, Quince, Pear, Oriental Pear, Azarole, Medlar, Tejocote, cultivars, varieties and/or hybrids of these</p>	<p>Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments</p>	<p>Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems or foliage, as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers. When tank mixing with a residual herbicide no additional surfactant is needed.</p>	<p>DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 3 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 14 days apart. DO NOT graze, harvest and/or feed treated orchard cover crops to livestock. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 246 fl oz (4.5 lbs ai)/A through any combination of use patterns per year.</p>

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
<p>CITRUS (Crop Group 10-10) Calamondin, Citrus citron, Citrus hybrids (chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sour, sweet), Pummelo, Satsuma mandarin cultivars, varieties and/or hybrids of these</p>	<p>Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments</p>	<p>Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems or foliage, as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.</p>	<p>DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 3 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 14 days apart. DO NOT graze, harvest and/or feed treated orchard cover crops to livestock. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 246 fl oz (4.5 lbs ai)/A through any combination of use patterns per year.</p>

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
GRAPES Raisin, Table, Wine	Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments	Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)	Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems, or foliage as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.	DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 3 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 14 days apart. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 246 fl oz (4.5 lbs ai)/A through any combination of use patterns per year.

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
<p>STONE FRUIT (Crop Group 12-12) Apricot, Cherry (sweet, tart), Nectarine, Peach, Plum (chickasaw, damson, Japanese), Plumcot, Prune (fresh)</p>	<p>Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments</p>	<p>Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems, or foliage as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.</p>	<p>DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 2 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 28 days apart. DO NOT graze, harvest and/or feed treated orchard cover crops to livestock. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 164 fl oz (3 lbs ai)/A through any combination of use patterns per year.</p>

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
<p>TREE NUTS (Crop Group 14) Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia (bush nut), Pecan, Pistachio, Walnut (black and English (Persian))</p>	<p>Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments</p>	<p>Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)</p>	<p>Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems, or foliage, as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.</p>	<p>DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 3 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 14 days apart. DO NOT graze, harvest and/or feed treated orchard cover crops to livestock. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 246 fl oz (4.5 lbs ai)/A through any combination of use patterns per year.</p>

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
BERRIES (Bushberry Subgroup 13b) Bushberries, Blueberry Currant, Elderberry, Gooseberry, Huckleberry, Lingonberry, Juneberry, Salal	Broadcast Banded Directed Spray Spot Treatments See APPLICATION METHODS section for additional information on Banded, Directed Spray and Spot Treatments	Weeds < 3" in height 48 fl oz/A (0.88 lb ai/A) Weeds < 6" in height 56 fl oz/A (1.02 lbs ai/A) Weeds > 6" in height and/or grasses that have tillered 56 – 82 fl oz/A (1.02 – 1.50 lbs ai/A)	Apply to emerged, young, actively growing weeds. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems, or foliage, as injury may occur. Only trunks with callused, mature brown bark maybe sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers.	DO NOT apply more than 82 fl oz (1.50 lbs ai)/A in a single application. DO NOT make more than 2 applications per year at the maximum rate of 82 fl oz (1.50 lbs ai)/A, and DO NOT apply closer than 14 days apart. DO NOT aerially apply. DO NOT apply through any type of irrigation system. DO NOT make spot spray applications to suckers as tree injury may occur. DO NOT apply within 14 days of harvest. DO NOT apply more than 164 fl oz (3 lbs ai)/A through any combination of use patterns per year.

Crop	Use Pattern	Rate/Acre	Directions	Restrictions
POTATOES	Vine Desiccation	21 fl oz/A (0.38 lb ai/A)	<p>Apply at the beginning of natural senescence of potato vines.</p> <p>Potato varieties with heavy or dense vines may require an application of another desiccation product to complete vine desiccation.</p> <p>Thorough coverage of the potato vines to be desiccated is essential. Use sufficient volume of water (20 to 100 gpa).</p> <p>Vary the gallons of water per acre and spray pressure as indicated by the density of the potato vines.</p> <p>Increase spray volume to at least 30 gallons of water per acre when potato canopy is dense or under cool and dry conditions.</p> <p>Apply with the spray boom as low as possible to achieve thorough coverage of the potato vines for best control and to minimize drift potential.</p>	<p>DO NOT apply to potatoes grown for seed.</p> <p>DO NOT apply more than 21 fl oz (0.38 lb ai)/A in a single application.</p> <p>DO NOT split application or make more than 1 application per year.</p> <p>Do not harvest potatoes until 9 days or more after application.</p> <p>Do not apply more than 21.0 fl oz (0.38 lb ai)/A per year.</p>
<p>- Canola, corn, cotton, soybean and sugar beets may be planted at any time after an application of Total Herbicide as a potato vine desiccant.</p> <p>- Wheat, barley, buckwheat, millet, oats, rye sorghum or triticale may be planted 30 days or more after an application of Total Herbicide as a potato vine desiccant.</p> <p>- All other crops may be planted 120 or more days after an application of Total Herbicide as a potato vine desiccant.</p>				

APPLICATION METHODS

COTTON NOT DESIGNATED AS GLUFOSINATE-RESISTANT

Application of Total Herbicide to cotton varieties not designated as glufosinate-resistant requires the use of hooded spray equipment designed to minimize exposure of the spray to the cotton stand. A hooded sprayer directs the spray onto weeds, while shielding the cotton stand from contact. Use nozzles that provide uniform coverage within the treated area. Keep hoods on these sprayers adjusted to protect desirable vegetation. Extreme care must be exercised to avoid exposure of the desirable vegetation to the spray.

With a hooded sprayer, the spray pattern is completely enclosed on the top and all 4 sides by a hood. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods

might be raised off the ground as this may cause spray particles to escape and come into contact with the cotton, causing damage or destruction of the crop.

Herbicide rates and spray volume instructions are presented as broadcast equivalents and must be reduced in proportion to the area actually treated. Use the following formulas to calculate the correct rate and volume per planted (field) acre:

Band width in inches		Broadcast RATE	Amount of banded product
	X		=
Row width in inches		per acre	needed per acre
Band width in inches		Broadcast spray VOLUME	Banded spray volume
	X		=
Row width in inches		per acre	needed per acre

BANDED SPRAY APPLICATIONS – TREE FRUIT, TREE NUTS, VINES, AND BERRIES

Banded applications may be used using the following formula to calculate the amount of herbicide needed for strip sprays:

Band width in inches		Rate per acre	Amount of herbicide
	X		=
Row width in inches		broadcast	needed for treatment

SPOT OR DIRECTED SPRAY APPLICATIONS – TREE FRUIT, TREE NUTS, VINES, AND BERRIES

For spot or directed spray applications mix Total Herbicide at 1.7 fl oz of product (0.33 lb ai) per gallon of water.

Apply to undesirable vegetation foliage until wet but prior to runoff. Ensure uniform and complete coverage.

Thoroughly clean the sprayer following use. **DO NOT** make spot or directed spray applications to tree or vine trunk as injury may occur.

TANK MIXTURES

See **Compatibility Testing** section of this label if tank mixing with other pesticide products.

For all crops certain herbicide tank mixes may aid in the performance of Total Herbicide or be added to provide residual herbicide activity. When tank mixing with a residual herbicide no additional surfactant is needed. Total Herbicide may be applied in tank mix combinations with labeled rates of other products labeled for the timing and method of application for the crop to be treated. The tank mix partner must be used in accordance with the label limitations and restrictions. No label dosage rates may be exceeded. Total Herbicide may not be mixed with any product containing a label prohibition against such mixing.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

APPLICATION DIRECTIONS FOR CANOLA, CORN, COTTON, AND SOYBEAN SEED PROPAGATION

Total Herbicide may be applied during seed propagation to select out susceptible "segregates", i.e., canola, corn, cotton, and soybean plants that are not designated glufosinate-resistant.

- **Canola:** Total Herbicide may also be used in canola seed propagation as a foliar spray to selectively eliminate canola plants that are not designated as glufosinate-resistant and as such, can be applied to remove susceptible segregates during canola seed propagation. Breeding material not possessing the trait will be severely injured or killed if treated with this herbicide. See **APPLICATION INSTRUCTIONS AND CROP USE DIRECTIONS ON CANOLA** for use rates and application timing.
- **Corn:** Inbred lines (plants not designated glufosinate-resistant) will be severely injured or killed if treated with this herbicide. A hooded sprayer may be used to protect plants from coming into contact with the herbicide application. For the selection of glufosinate-resistant corn "segregates", apply Total Herbicide at 22 fl oz/A (0.40 lb ai/A) plus AMS at 3 lbs/A (17 lbs/100 gallons) when corn is in the V-3 to V-4 stage of growth, i.e., 3 to 4 developed collars. Make a second treatment of 22 fl oz/A (0.40 lb ai/A) plus AMS at 3 lbs/A when the corn is in the V-6 to V-7 stage of growth or up to 24" tall. Make sequential applications at least 10 days apart. When temperatures exceed 85°F, the rate of AMS can be reduced to 1.5 lbs/A (8.5 lbs/100 gallons) to reduce potential leaf burn.
- **Cotton:** use Total Herbicide in cotton seed propagation as a foliar spray to selectively eliminate cotton plants that are not designated as glufosinate-resistant, removing susceptible segregates during cotton seed propagation. Breeding material not possessing this trait will be severely injured or killed if treated with this herbicide. See **APPLICATION INSTRUCTIONS AND CROP USE DIRECTION ON COTTON** for use rates and application timing.
- **Soybeans:** For the selection of glufosinate-resistant soybean "segregates", apply TOTAL herbicide at up to 22 - 43 fl oz/A (0.40 - 0.79 lb ai/A) when soybean is in the third trifoliate stage. Make a second treatment of 22 - 43 fl oz/A (0.40 - 0.79 lb ai/A) up to but not including the bloom growth stage of soybean. Make sequential applications at least 5 days apart.

FALLOW FIELDS OR POST HARVEST

Total Herbicide may be used as a substitute for tillage in fallow fields to control or suppress weeds listed in the **WEEDS CONTROLLED** table section of this label. Applications may be made in fallow fields, post-harvest, before planting or emergence of any crop listed on this label.

Apply Total Herbicide at 22 - 29 fl oz/A (0.40 - 0.53 lb ai/A) to fallow fields to control specific weeds. Total Herbicide must be applied with ammonium sulfate. Tank mixes with 2,4-D, glyphosate or atrazine and Total Herbicide will enhance total weed control. Always follow the precautions and directions of use of the most restrictive label of products used in tank mix combinations. See the **APPLICATION AND MIXING PROCEDURES** section of this label for additional information on how to apply this product. See the **PRODUCT INFORMATION** section of this label for rotational crop restrictions.

Restrictions

- **DO NOT** apply more than 29 fl oz/A (0.53 lb ai/A) in a single application.
- **DO NOT** make more than 3 applications per year at a minimum retreatment interval of 14 days.
- **DO NOT** apply more than 87 fl oz/A (1.59 lbs ai/A) per year.

FARMSTEAD AREAS

When applied as listed, Total Herbicide controls undesirable plant vegetation in non-crop areas including around farmstead building foundations, shelter belts, along fences, storage yards, fence lines, ditch banks, dry ditches, parking lots, tank farms, and pumping stations. Refer to **WEEDS CONTROLLED** tables for list of weeds controlled.

Apply as a spot or directed spray treatment application depending on the situation to control weeds. Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat applications may be necessary to control plants generating from underground part or seed.

Apply 48 - 82 fl oz (0.88 - 1.50 lbs ai)/A per application.

See the **APPLICATION AND MIXING PROCEDURES** section of this label for additional information on how to apply this product. See the **PRODUCT INFORMATION** section of this label for rotational crop restrictions.

Restrictions

- **DO NOT** apply more than 82 fl oz (1.50 lbs ai)/A in a single application.
- **DO NOT** make more than 3 applications per year at a minimum retreatment interval of 14 days.
- **DO NOT** apply more than 246 fl oz (4.5 lbs ai)/A per year.

NON-CROP USES

Total Herbicide is a non-selective water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds. Plants that have not yet emerged at the time of application will not be controlled. THOROUGH SPRAY COVERAGE IS IMPORTANT. Visual effects and control from application of Total Herbicide occur within 2 to 4 days after application under good growing conditions.

This product is non-selective and will injure or kill all green vegetation contacted by the spray. Avoid all contact with foliage or green tissue of desirable vegetation. Avoid direct spray or drift onto green, thin, or uncalloused bark of desirable vegetation or plant injury may result. If desirable vegetation is contacted, rinse with sprayed portion with water immediately.

WHERE TO APPLY

Total Herbicide may be used on the following military, private, and public lands:

• access roads	• ditch banks	• lumbar yards	• schools
• airfields	• drive-in theaters	• mulched areas	• sewage disposal areas
• airports	• driveways	• natural areas and brush	• shadehouses
• alleys	• dry ditches	• control	• shelter belts
• along fences	• fencerows	• nurseries	• sidewalks
• around commercial or Industrial structures or outbuildings	• firebreaks	• parking areas	• site preparation areas for conifer and hardwood
• around farm and ranch structures and outbuildings	• fuel storage areas	• parks	• sports areas
• around ornamental gardens	• golf courses* (excluding greens, tees, aprons, fairways, and roughs)*	• paths	• storage areas
• around ornamental trees and shrubs	• gravel yards	• paved areas	• substations
	• greenhouses	• petroleum and other tank farms	• tennis courts
	• habitat restoration and management areas	• pipeline, power, telephone, and utility rights of way	• trails
		• power stations	• uncropped farmstead areas
			• vacant lots

(including Christmas trees)	• highways and roadsides	• preplant to turf and ornamental plants	• walkways
• bare ground	(including aprons, medians, guardrails, and right of ways)	• pumping installations	• wastelands
• barrier strips		• railroad rights of way	• wildlife food plots*
• beaches*		• ramps	• wildlife habitat areas
• campgrounds		• recreation areas	• wildlife openings
• canals	• industrial areas	• refineries	
• Conservation Reserve Program (CRP)*	• industrial plant sites	• resorts	
• construction sites	• landscapes		
	• lanes		

*Not for use in California

Conservation Reserve Program (CRP)

Not for use in California. Total Herbicide may be used to suppress competitive growth and seed production of undesirable vegetation when rotating out of CRP acres. Apply 48 to 56 fl oz (0.88 to 1.0 lb ai) per acre of Total Herbicide in early spring, before CRP grasses break dormancy, for selective applications with broadcast spray equipment. After desirable perennial grasses have reached dormancy, late fall applications may be made. Some stunting of CRP perennial grasses may occur if applications are made when plants are not dormant.

Trimming and Edging

Total Herbicide may be used for trimming and edging areas listed under the header **WHERE TO APPLY**. For control of weeds emerging from seed, the use of Total Herbicide in a tank mix with pre-emergence herbicides is advised. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants.

Public and Recreational Areas

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label, in areas listed under the header **WHERE TO APPLY**.

Dormant Bermudagrass

Total Herbicide may be used to control winter annual weeds in well-established ornamental dormant hybrid or common Bermudagrass. **Apply only when the turf is fully dormant and weather is cool, and prior to spring green-up or severe turfgrass injury or delayed green-up may occur.** For best results, apply Total Herbicide at a rate of 56 - 82 fl oz (1.0 - 1.5 lbs ai) per acre after most weeds have germinated and are in an early growth stage. Applications of Total Herbicide may also be used to suppress or control target biennial or perennial weeds. Avoid high volume and spot applications where spray volume exceeds 80 gallons per acre or injury or delayed green-up may occur.

Restrictions for Dormant Bermudagrass

- **DO NOT** apply more than 82 fl oz (1.5 lbs ai)/A in a single application.
- **DO NOT** apply more than 82 fl oz (1.5 lbs ai) per acre per year for this use.
- **DO NOT** make more than one application per year.

Ornamentals and Christmas Trees

When applied as advised by this label, this product may be used for the control of undesired vegetation in site preparation prior to planting, around and within shade and greenhouses, and as a directed spray around containers and field-grown established ornamentals and Christmas trees.

Ornamental and Christmas Tree Restrictions

- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or injury may result.
- **DO NOT** apply Total Herbicide as an over-the-top broadcast spray in ornamentals and shade or Christmas trees. For pre-plant site preparation applications for control of annual and perennial weeds listed on this label, in ornamental and Christmas tree plantings, ornamental and Christmas trees may be planted into the treated area after the restricted entry interval (REI) of 12 hours has elapsed.

Total Herbicide may be used between and around containers and in site preparation for new plantings, and to control in-row weeds in field-grown wood plants.

Apply Total Herbicide as a directed spray.

For greenhouse and shadehouse applications where Total Herbicide is used to control weeds, air circulation fans must be turned off during application. Apply Total Herbicide as a directed spray, using large droplet and low-pressure type nozzles. Avoid drift and direct contact with desirable vegetation.

Greenhouse and Shadehouse Restrictions

- **DO NOT** use in greenhouses or shadehouses containing edible crops.

Site Preparation for Conifer and Hardwood Production Areas

Prior to planting conifer and hardwood species, Total Herbicide can be used as a site preparation treatment.

- **DO NOT** apply Total Herbicide as an over-the-top broadcast spray to desirable conifer or hardwood plantings.
- Restricted Entry Interval (REI) for seedling conifer and hardwood treats to be planted into the treated area: 12 hours.

WHEN TO APPLY

Total Herbicide is a foliar-active material and works best when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures.

Weeds under stress or in dense populations will require application of the highest rate indicated. Always apply at the labeled rate. Repeat applications or tank mixes of Total Herbicide plus one or more appropriate residual herbicides will be needed to control weeds emerging from underground parts or seeds. When tank mixing with other herbicides, follow the label with the most restrictive directions for use and precautions. No label dosage rates may be exceeded.

Regrowth may occur due to the weed stage of growth at application, low use rate, or environmental conditions. Repeat treatments may be necessary to control weeds generating from underground parts or seeds.

APPLICATION DIRECTIONS

Applications may be made as a broadcast, banded or spot treatment basis depending on the situation.

Application Method	Use Rate	Directions	Restrictions
Spot or Directed Applications	1 - 2 fl oz (0.02 - 0.04 lb ai) per gallon of water	Use rate depends on weed species being controlled. Spray undesirable vegetation foliage on a spray-to-wet basis. Ensure uniform and complete coverage. Use a coarse spray. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.	DO NOT apply beyond runoff. DO NOT spray during windy conditions. DO NOT exceed single maximum and yearly maximum broadcast use rates.
Broadcast or Boom Applications	48 - 72 fl oz (0.88 - 1.32 lbs ai) per acre in a minimum of 40 gallons of water	Use rate depends on weed species being controlled. Use 30-psi spray pressure minimum. For smaller weeds 3 inches or less, use the lower rate. For weeds 6 inches or less use the upper end of the rate range.	DO NOT apply more than 72 fl oz (1.32 lbs ai)/A in any single application. DO NOT apply more than once per year. DO NOT apply more than 72 fl oz (1.32 lbs ai)/A in a single year.

Aerial Applications	48 - 72 fl oz (0.88 - 1.32 lbs ai) per acre in a minimum of 5 gallons of water	Use rate depends on weed species being controlled. For smaller weeds 3 inches or less, use the lower rate. For weeds 6 inches or less use the upper end of the rate range. See SPRAY DRIFT ADVISORIES section. Drift control additives may be used. If a drift control additive is used, observe and follow all directions and precautions as specified on the additive label.	DO NOT apply more than 72 fl oz (1.32 lbs ai)/A in any single application. DO NOT apply more than once per year. DO NOT apply more than 72 fl oz (1.32 lbs ai)/A in a single year.
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WEEDS CONTROLLED

			Directions and Restrictions
Brush Controlled or Suppressed			
Blackberry Deer brush Douglas fir Gallberry Hazel Honeysuckle Huckleberry	Maple Multiflora rose Oak Poison ivy/oak Pine Roundleaf Greenbrier	Salmonberry Sweetgum Sumac Thimbleberry Trumpet creeper Vine maple Western red cedar	Total Herbicide will provide control or suppression of these listed perennial wood weed species when applied as recommended. Apply 32 to 96 fl oz (0.59 to 1.76 lbs ai) per acre. When conditions are not optimum for good spray penetration, use the higher recommended use rate. DO NOT exceed 1.9 gallons (4.5 lbs ai) per acre per year.

			Spot Application	Broadcast Application
Broadleaf Weeds				
Chickweed Clover Common cocklebur Filaree	Jimsonweed Kochia London rocket Malva (little mallow)	Marestail Purslane Shepherdspurse Smartweed	Apply 1 - 2 fl oz (0.02 - 0.04 lb ai)/ gallon of water	Apply 48 - 72 fl oz (0.88 - 1.32 lbs ai)/A
Grasses and Sedges				
Barnyardgrass Cupgrass Fall panicum Giant foxtail Goosegrass	Green foxtail Johnsongrass (rhizome) Lovegrass Shattercane	Smallflower Alexandergrass (Signalgrass) Stinkgrass Windgrass Yellow foxtail	Apply 1 - 2 fl oz (0.02 - 0.04 lb ai)/ gallon of water	Apply 48 - 72 fl oz (0.88 - 1.32 lbs ai)/A

			Spot Application	Broadcast Application
Broadleaf Weeds				
Annual sowthistle	Lambsquarters	Tansy mustard	Apply 1 - 2 fl oz (0.02 - 0.04 lb ai)/ gallon of water	Apply 48 - 72 fl oz (0.88 - 1.32 lbs ai)/A
Bindweed	Leafy spurge	Velvetleaf		
Buffalobur	Mugwort	Vervain		
Burdock	Musk thistle	Virginia copperleaf		
Canada thistle	Nettle	White heath aster		
Curly dock	Nightshade	Wild buckwheat		
Dandelion	Pennycress	Wild mustard		
Dogbane (hemp)	Pigweed, redroot	Wild onion		
Field gromwell	Plantain	Wild rose		
Fleabane	Prickly lettuce	Wild turnip		
Goldenrod	Ragweed	Woodsorrel		
Horsetail	Russian thistle	Yellow rocket		
Grasses and Sedges				
Annual bluegrass	Downy bromegrass	Ryegrass	Apply 1 - 2 fl oz (0.02 - 0.04 lb ai)/ gallon of water	Apply 48 - 72 fl oz (0.88 - 1.32 lbs ai)/A
Bahiagrass	Fescue	Sandbur		
Barley	Guineagrass	Smooth bromegrass		
Bermudagrass	Kentucky bluegrass	Torpedograss		
Carpgrass	Nutsedge	Vaseygrass		
Crabgrass	Paragrass	Wheat		
Dallisgrass	Quackgrass	Wild oat		

Use Notes

1. Use higher rates within the specified rate range for weed sized listen when vegetation cover is sense or when weeds are growing under stressed conditions including drought or when average temperatures are below 50° F.
2. The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

MIXING INSTRUCTIONS

Total Herbicide must be mixed with water to make a finished spray solution. Fill the spray tank 1/2 to 3/4 full with water, start agitation, add the appropriate amount of Total Herbicide then add remaining water to fill tank. Mix thoroughly.

Restrictions

- **DO NOT** apply this product through an irrigation system.
- **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- **DO NOT** allow grazing of vegetation treated with Total Herbicide.

Precautions

Total Herbicide is rainfast in a minimum of one-half hour and an average of 4 hours after application depending upon weed species, environmental conditions, and herbicide application rate.

Plants may be safely planted into Total Herbicide treated areas after spray has dried.

TANK MIXING

Total Herbicide is compatible in tank mixes with many other herbicides. When tank mixing Total Herbicide with other herbicides, follow the label with the most restrictive directions for use and precautions. No label dosage rates may be exceeded. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

A compatibility test must be conducted with any potential tank mix partner.

Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with Total Herbicide.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperature must not exceed 125°F. If storage temperature for bulk Total Herbicide is below 32°F, the material must not be pumped until its temperature exceeds 32°F. Protect against direct sunlight.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER HANDLING:

[Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)]

Non-refillable container. Do not reuse or refill this container. Triple rinse 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 1/4 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. Once container is rinsed, then offer for recycling if available or reconditioning if appropriate; or puncture and dispose of in a sanitary landfill, or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

[Rigid, Non-refillable containers (i.e., with capacities greater than 5 gallons)] triple rinse [or pressure rinse] as follows:

Triple rinse: 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 back 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 and disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

Pressure rinse: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at

about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

[All refillable container types (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. This is a sealed returnable container to be used only for Total Herbicide. When this container is empty, it must not be opened, cleaned, or discarded. Empty containers must be returned to the original purchase location.

Bottom discharge intermediate Bulk Container (IBC) (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Empty the remaining contents from the Intermediate Bulk container (IBC) into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inch on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve. Contact your Ag retailer for container return, disposal, and recycling recommendations.

SEED DISPOSAL: To dispose of out-date or otherwise unmarketable seed from plants, which have been treated with Total Herbicide, broadcast and lightly incorporate seed into field soils using disc or other suitable implement. Any resulting crop may be destroyed by chemical or mechanical means. Alternatively, seed may be destroyed by deep burial, incineration or landfill disposal.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

WARRANTY DISCLAIMER

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