

100-1042

12/08/2003

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

DEC 8 2003

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Jerry Wells
Syngenta Crop Protection, Inc
P.O. Box 18300
Greensboro, NC 27419

Dear Mr. Wells:

Subject: Touchdown 4LC Herbicide (Update First Aid)
EPA Registration No. 100-1042
Application Dated September 19, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable, provide you make the following changes before you release the product for shipment.

1. Revise the last sentence in the first paragraph of your Environmental Hazards Section to read "Do not contaminate water when **cleaning of equipment** or disposing of equipment washwaters.
2. Under Storage and Disposal revise "Storage" to read "Pesticide Storage".

Submit three (3) copies of your final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
James A. Tompkins
Product Manger 25
Herbicide Branch
Registration Division (7505C)

2/18

TOUCHDOWN® 4LC Herbicide

**Nonselective Foliar Systemic Herbicide for Weed Control in
Nonbearing Trees and Vines, and Noncrop Areas Around the Farm**

ACTIVE INGREDIENT:	
Trimethylsulfonium carboxy methylaminomethylphosphonate*	39.9%
INERT INGREDIENTS:	60.1%
TOTAL	100.0%

Contains 4 pounds active ingredient per gallon.
*Sulfosate

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

DEC - 8 2003

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
100-1042

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use (inside booklet; on back panel; on side panel)

EPA Reg No. 100-1042
EPA Est No.

Product of Belgium
Formulated and Packaged in USA

SCP xxxx

Net Weight/U.S. Standard Measure

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control or doctor. • Do not give anything by mouth to an unconscious person.
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 treatment advice.
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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
HOTLINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

HARMFUL IF SWALLOWED, ABSORBED THROUGH THE SKIN OR INHALED. PROLONGED CONTACT MAY CAUSE SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTIONS. Avoid contact with skin, eyes or clothing. Wear rubber gloves when handling. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

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

In case of spill, ISOLATE the spill. Absorb spill with inert absorbent material such as clay or Fuller's earth. Sweep up used absorbent and place in an appropriate chemical waste container. Flush spill area with water. Observe all local, State and Federal laws and regulations regarding disposal, spill cleanup, removal or discharge.

OTHER PRECAUTIONS

Caution must be taken when applying TOUCHDOWN® 4LC herbicide to avoid drift or contact with nontarget plant species. Such contact may result in plant injury.

TOUCHDOWN 4LC should not be mixed or stored in galvanized steel or unlined steel containers. Stainless steel, plastic-lined steel, plastic or fiberglass containers are acceptable for mixing and storing TOUCHDOWN 4LC herbicide.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Syngenta Crop Protection, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Syngenta and Seller harmless for any claims relating to such factors.

Syngenta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Syngenta, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall Syngenta or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Syngenta and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Syngenta.

DIRECTIONS FOR USE

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

- Apply this product only as specified on the label.
- Do not apply by aircraft.
- Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL DIRECTIONS

PROHIBITIONS: Do not contaminate water, food, feed, fertilizer, or seeds by storage or disposal.

STORAGE: Keep container tightly closed when not in use.

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

CONTAINER DISPOSAL:

Plastic - Triple rinse (or equivalent); then offer for recycling or reconditioning, 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.

Metal - Triple rinse (or equivalent); then offer for recycling or reconditioning, or disposal in a sanitary landfill, or by other approved State and local procedures.

FOR EZ HANDLER CONTAINERS

CONTAINER DISPOSAL: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer' instructions.

CONTAINER PRECAUTIONS

Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

REFILL ONLY WITH TOUCHDOWN. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than TOUCHDOWN will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

GENERAL INFORMATION

TOUCHDOWN 4LC is a nonselective foliar systemic herbicide used to control a broad spectrum of emerged weeds. TOUCHDOWN 4LC controls most grass and broadleaf weeds -- both annual and perennial. TOUCHDOWN 4LC may be used in noncrop areas around the farm; and in nonbearing groves, orchards, or vineyards up to within 1 year of harvest to control unwanted vegetation.

TOUCHDOWN 4LC is formulated as a liquid concentrate which contains 4 pounds of active ingredient per gallon.

TOUCHDOWN 4LC requires a 6-hour rain-free period after application. Rain occurring within six hours of application may reduce weed control.

APPLICATION DIRECTIONS

Timing

TOUCHDOWN 4LC should be applied to actively growing emerged weeds when they are small. Weeds 6 inches in height are the easiest to control. Larger weeds may be more difficult to control. The exception to this is johnsongrass or bermudagrass. These grasses should be allowed to reach the seedhead stage before application.

When weeds have been mowed, thus removing much of the green foliage, wait for 3-4 inches of new growth to appear before making an application of TOUCHDOWN 4LC.

Rates

Follow recommended rates for TOUCHDOWN 4LC listed in the **WEEDS CONTROLLED** section. Use the higher label rates when weeds are dense or large. Also, use higher application volumes and pressures when weed vegetation is dense.

Tankmixes

When perennial broadleaf weeds such as Canada thistle, field bindweed, or difficult to control annual broadleaf weeds such as common ragweed or morningglory spp. are present, tankmixes with 2,4-D or Banvel® herbicide, where labeled, will help improve control. In general, labeled TOUCHDOWN 4LC tankmixes with other products should be mixed as follows:

1. Fill spray tank 1/2 full with clean water
2. Begin tank agitation and continue throughout mixing and spraying.
3. Add dry formulations (WP, DF, etc.) to tank.
4. Add liquid formulations (SC, EC, L, etc.) to tank.
5. Add TOUCHDOWN 4LC and nonionic surfactant to tank.
6. Fill remainder of spray tank.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here.

SPRAY ADDITIVES

Surfactants/Wetting Agents

A surfactant or wetting agent approved for use on growing crops IS REQUIRED with TOUCHDOWN 4LC to improve coverage of weed foliage. All surfactants or wetting agents should contain at least 50% active ingredient. The concentration of active ingredient in a particular surfactant will determine how much should be added to the tank. Refer to table below for specific recommendations:

Surfactant % Active Ingredient	Rate of Surfactant Per 1 Gallon of Water	Rate of Surfactant** Per 100 Gallons of Water
75% or greater	3/4 fl oz	2 quarts*
50-74%	1-1/2 fl oz	4 quarts
Less than 50%	DO NOT USE	DO NOT USE

*2 quarts = 0.5% V/V.

Ammonium Sulfate

Control of annual and perennial weeds with TOUCHDOWN 4LC may be improved by adding dry ammonium sulfate at two (2) percent by weight or 17 lbs/100 gallons water in addition to nonionic surfactant. The addition of ammonium sulfate will generally improve control under conditions of adverse environmental stress. Do not reduce use rates of TOUCHDOWN 4LC or nonionic surfactant when using ammonium sulfate.

APPLICATION EQUIPMENT & TECHNIQUES

Broadcast Application

Apply TOUCHDOWN 4LC to actively growing weeds at the broadcast rates indicated in the **WEEDS CONTROLLED** section. Applications should be made in 10 to 30 gallons of water per acre with conventional spray equipment, or in 2 to 10 gallons per acre with low volume equipment. Increase volumes if weed foliage is dense.

The use of flat-fan nozzles will result in the most effective application of TOUCHDOWN 4LC. Flat fans should be used at 30-50 psi. Flood nozzles are generally not as good as

flat fans since they produce large uneven droplets. The use of flood nozzles may result in reduced weed control due to inadequate coverage.

Spot Treatments

For control of annual weeds listed use a 0.5% solution of TOUCHDOWN 4LC plus nonionic surfactant in water to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches, use a 1% solution. For perennials, such as hemp dogbane, field bindweed, dock, bermudagrass, milkweed, canada thistle, and for the weeds listed in Tables 4 and 5, use a 2% solution. Use a 5% solution when using motorized spot spray equipment (i.e. a rider bar). Spray the solution on actively growing foliage until uniformly wet but not to the point of runoff. Retreat 14-21 days later if regrowth occurs.

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

Spot Spray Recommendations

Amount of TOUCHDOWN 4LC Herbicide for Hand-Directed Spot Spray*

To Make This Volume

Solution Strength	1 gallon	2 gallons	10 gallons	25 gallons	100 gallons
0.25%	1/3 fl oz	2/3 fl oz	3-1/3 fl oz	8 fl oz	2 pints
0.5%	2/3 fl oz	1-1/3 fl oz	6-2/3 fl oz	1 pint	4 pints
1%	1-1/3 fl oz	2-1/2 fl oz	12-1/2 fl oz	2 pints	1 gallon
1.5%	2 fl oz	4 fl oz	19-1/3 fl oz	3 pints	1-1/2 gallons
2%	2-2/3 fl oz	5-1/3 fl oz	1-1/2 pints	4 pints	2 gallons
3%	4 fl oz	8 fl oz	2-1/2 pints	6 pints	3 gallons
5%	6-1/2 fl oz	13 fl oz	4 pints	10 pints	5 gallons

* See SPRAY APPLICATION directions for surfactants and amounts which can be used.

- 1/3 fl. oz. = 2 teaspoons
- 1/2 fl. oz. = 1 tablespoon
- 1 fl. oz. = 2 tablespoons
- 8 fl. oz. or 1/2 pint = 1 cup
- 16 fl. oz. = 1 pint
- 1 gallon = 8 pints

Wiper Applications

TOUCHDOWN 4LC may be applied using a wiper or "wick" applicator for selective control or suppression of annual and perennial weeds which become taller than the crop or desirable vegetation. To prevent injury to the crop or desirable vegetation, precautions should be taken to avoid contact with these plants. Equipment should be operated at speeds of 5 mph or less. Use slower speeds where weeds are dense. For improved control, make two applications in opposite directions.

Mixing Directions

Mix 2-1/2 quarts of TOUCHDOWN 4LC herbicide in 2 gallons of water. Apply this mixture to target weeds, while avoiding contact with desirable vegetation.

GENERAL USE PRECAUTIONS

- TOUCHDOWN 4LC herbicide requires actively growing green plant tissue to function. Application to drought-stressed weeds or weeds with little green foliage (i.e., mowed or cut weeds), may result in reduced weed control.
- DO NOT spray if conditions of thermal inversion exist, or if wind direction and speed may cause spray to drift onto adjacent areas. Drift minimization is the responsibility of the applicator. Consult with local and state agricultural authorities for information regarding avoiding or minimizing spray drift.
- Do not tank mix TOUCHDOWN 4LC herbicide with other pesticides or any other additives except as specified on this label or other supplemental labeling.
- Do not apply TOUCHDOWN 4LC herbicide if rain is expected within six (6) hours.
- Thoroughly clean spray tank after each use.

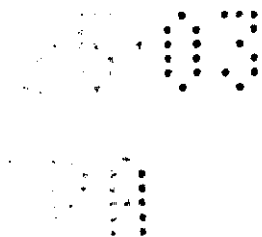
NONBEARING CROPS

GENERAL INFORMATION

TOUCHDOWN 4LC can be used to control annual and perennial weeds in nonbearing groves, orchards, or vineyards. Use TOUCHDOWN 4LC during site preparation prior to planting and up to within 1 year of harvest. TOUCHDOWN 4LC is recommended on the following nonbearing crops:

Acerola
 (West Indian Cherry)
 Almonds
 Apples
 Apricots
 Artichokes
 Asparagus
 Avocados
 Blackberry
 Blueberry
 Boysenberry
 Cherries
 Crabapple
 Cranberry
 Dates
 Dewberry
 Elderberry
 Figs
 Filberts
 Ginseng
 Gooseberry
 Grapes
 Grapefruit
 Guava
 Jojoba

Huckleberry
 Kiwi
 Lemons
 Limes
 Loganberry
 Macadamia
 Mango
 Nectarines
 Olives
 Oranges
 Papayas
 Passion Fruit
 Peaches
 Pears
 Pecans
 Persimmons
 Pistachios
 Plums
 Pomegranates
 Prunes
 Raspberry
 Tangelos
 Tangerines
 Walnuts



APPLICATION DIRECTIONS FOR NONBEARING TREES AND VINES

Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, orchard sprayers, or with wiper application equipment. See the **APPLICATION DIRECTIONS** section of this label for specific information on use of equipment, carriers, and nozzles.

Multiple applications may be necessary to control certain perennial weeds, and weeds originating from underground parts (rhizomes, stolons, tubers) that are initially untreated. TOUCHDOWN 4LC does not provide residual weed control, and as such, weeds emerging after application will not be controlled. For residual weed control, tank mix TOUCHDOWN 4LC with residual herbicides as prescribed in the **TANK MIXTURES FOR NONBEARING CROPS** section, or make multiple applications.

TANK MIXTURES FOR NONBEARING CROPS

TOUCHDOWN 4LC can be tank mixed with the following herbicides for control or suppression of emerged annual and perennial weeds. The following residual herbicides provide preemergence control of weeds listed on the individual product labels.

TOUCHDOWN 4LC herbicide plus:

- DEVRINOL 50-DF herbicide
- Goal® 1.6E herbicide
- Karmex® WP herbicide
- Krovar® I herbicide
- Krovar II
- Simazine/CALIBER® 90 herbicides
- Simazine (80W, 4L, or CALIBER 90) plus Surflan® herbicide (AS or 75W)
- Simazine 4L
- Simazine 80W
- Surflan AS
- Surflan 75W
- Goal 1.6E plus Surflan (AS or 75W)
- Goal 1.6E plus Simazine (80W, 4L, or CALIBER 90)
- Goal 1.6E plus Surflan (AS or 75W) plus Simazine (80W, 4L, or CALIBER 90)

Following are rates for the residual herbicides:

PRODUCT	RATE/ACRE
DEVRINOL 50-DF	8 lbs.
Goal 1.6E	1-1/4 to 5 qts.
Karmex WP	2 to 8 lbs.
Krovar I	2 to 8 lbs.
Krovar II	2 to 8 lbs.
Simazine, Caliber 90	1.1 to 10.6 lbs.
Simazine 80W	1-1/4 to 12 lbs.
Simazine 4L	2 to 9.6 qts.
Surflan AS	2 to 4 qts.
Surflan 75W	2-2/3 to 5-1/3 lbs.

Refer to the individual product labels for precautionary statements, restrictions, rates, and a list of weeds controlled.

For control of emerged weeds in a tankmix:

- Use TOUCHDOWN 4LC at 2 pints (32 fl.oz.) for the control of annual weeds that are less than 12 inches tall. When annual weeds are taller than 12 inches, use 3 pints (48 fl.oz.) of TOUCHDOWN 4LC herbicide.
- Use TOUCHDOWN 4LC at 4 pints (64 fl.oz.) to 8 pints (128 fl.oz.) for suppression of perennial weeds. Perennial weeds may require multiple applications for control.
- Add an agriculturally approved nonionic surfactant when tank mixing TOUCHDOWN 4LC with residual herbicides. See the **SPRAY ADDITIVES** section of this label for recommendations.

GENERAL USE PRECAUTIONS

Do not allow the spray, spray drift, or mist to contact green foliage or green bark on the trunk, suckers, open wounds, or other green parts of trees and vines.

Contact with any tree or vine part other than mature brown woody bark may cause crop injury.

Avoid contact with stumps as injury to adjacent trees may occur from root grafting.

If annual or perennial weeds have been mowed or grazed, wait for 3 to 4 inches of new growth to appear before making an application of TOUCHDOWN 4LC. See the **WEEDS CONTROLLED** section for specific rates of application.

Do not apply more than a total of 4 pounds active ingredient of TOUCHDOWN 4LC herbicide per acre per year.

PERENNIAL GRASS SUPPRESSION IN ORCHARD FLOORS

BAHIAGRASS

TOUCHDOWN 4LC herbicide can be used to inhibit seedhead emergence and suppress vegetative growth for approximately 40-50 days with a single application. By using a sequential application, suppression of vegetative growth and inhibition of seedhead emergence can be extended to 120 days. Applications must be made prior to seedhead emergence. Apply TOUCHDOWN 4LC at 20-30 days after complete green-up or after mowing to 4 inches tall. When a single application is planned, use 6 fluid ounces of TOUCHDOWN 4LC herbicide per acre plus 0.5 to 1.0% v/v nonionic surfactant in 10-25 gallons of water. When a sequential application is planned, use 4 fluid ounces per acre for the first application followed by another application of 4 fluid ounces per acre 40-50 days later.

BERMUDAGRASS

For Suppression Only:

1. East of the Rocky Mountains

Apply 6 to 16 fluid ounces of TOUCHDOWN 4LC herbicide plus 0.5 to 1.0% v/v nonionic surfactant in 3-20 gallons of water per acre. Make the application 2 weeks after complete green-up or after 3-4 inches of regrowth following mowing. Use 6 to 10 fluid ounces per acre if a lesser degree of suppression is desired. A sequential application can be used when regrowth occurs if bermudagrass injury and stand reduction can be tolerated.

2. West of the Rocky Mountains

Apply 16 fluid ounces of TOUCHDOWN 4LC plus 0.5 to 1.0% v/v nonionic surfactant per acre in 3 to 10 gallons of water per acre. Make the application 2 weeks after complete green-up or after 3-4 inches of regrowth following mowing. A sequential application can be used when regrowth occurs if bermudagrass injury and stand reduction can be tolerated.

Partial Control and Burndown:

TOUCHDOWN 4LC herbicide can be used for burndown and partial control of bermudagrass at 2 pints (32 fl.oz.) to 4 pints (64 fl.oz.) plus 0.5 to 1.0% v/v nonionic surfactant in 3 to 20 gallons of water per acre. Use 2 pints east of the Rocky Mountains and 4 pints west of the Rocky Mountains.

Use this treatment only if reduction of the bermudagrass stand can be tolerated. Allow at least 21 days for complete burndown.

COOL SEASON GRASS COVERS

For suppression of orchardgrass, fine fescue, tall fescue, and quackgrass apply 8 fluid ounces of TOUCHDOWN 4LC herbicide. Add a nonionic surfactant at 0.5 to 1.0% v/v in 10 to 20 gallons of water. Add ammonium sulfate at 2% by weight or 17 pounds per 100 gallons of spray mix. For suppression of Kentucky bluegrass, use 6 fluid ounces of TOUCHDOWN 4LC plus 0.5% to 1.0% v/v nonionic surfactant.

LOW VOLUME APPLICATION (FLORIDA AND TEXAS ONLY)

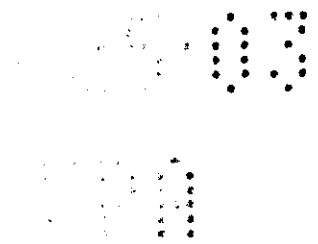
To control or suppress the perennial weeds listed in the following table, apply the recommended rate of TOUCHDOWN 4LC plus 0.5 to 1.0% v/v nonionic surfactant in 3 to 20 gallons of water per acre. Use higher gallonage if weed foliage is dense. Apply when the weeds have 3 to 4 inches of regrowth after mowing and are actively growing.

**USES FOR TOUCHDOWN 4LC IN
LOW VOLUME APPLICATIONS IN FLORIDA AND TEXAS ONLY**

Weed Species	Rate of TOUCHDOWN 4LC (Pints per Acre)			
	2	4	6	8
Bermudagrass ^a	B	NR	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	NR	B	C	C
Paragrass	B	C	C	C
Torpedograss	S	NR	PC	C

^a For suppression use 11 fluid ounces per acre.

S = Suppression B = Burndown
PC = Partial Control C = Control
NR = Not Recommended



CONSERVATION COMPLIANCE OR FEDERAL SET-ASIDE PROGRAMS

(For use in compliance with the Federal Conservation Compliance or Federal set-aside programs)

Apply to annual and perennial grass and broadleaf weeds according to the **WEEDS CONTROLLED** section of this label.

TOUCHDOWN 4LC may be tank mixed with other herbicides registered for this use.

FARMSTEAD (NONCROP)

- Applications can be made in noncrop areas around the farm such as:

Farmyards	Rights-of-way
Soil Bank Land	Barrier Strips
Farm Buildings	Equipment Areas
Fuel Storage Areas	Fence Rows

- Apply to annual and perennial grass and broadleaf weeds according to the **WEEDS CONTROLLED** section of this label.
- Avoid contact with the foliage of ornamentals or other desirable plants.
- Repeat applications may be necessary.
- Do not exceed a total of 4 lbs. a.i. (4 quarts of TOUCHDOWN 4LC) per acre per year.

WEEDS CONTROLLED

All weeds listed below are controlled by spray and hand-directed spot applications of TOUCHDOWN 4LC. For spray application use the indicated rates. See **DIRECTIONS FOR USE** for mixing and application instructions.

TABLE 1

The following weeds are controlled by 1/3 to 1 quart (0.375 - 1.0 lbs ai) TOUCHDOWN 4LC per acre:

COMMON NAME	SCIENTIFIC NAME
Bluegrass, Annual	<i>Poa annua</i>
Chickweed	<i>Stellaria media</i>
Cupgrass, Southwestern	<i>Eriochloa gracilis</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Oats, Wild	<i>Avena fatua</i>
Puncturevine	<i>Tribulus terrestris</i>
Ryegrass, Italian (Annual)	<i>Lolium multiflorum</i>
Signalgrass	<i>Brachiaria</i> spp.
Sowthistle	<i>Sonchus</i> spp.
Spurge, Spotted	<i>Euphorbia maculata</i>
Thistle, Russian	<i>Salsola kali</i>
Wheat, Volunteer	<i>Triticum</i> spp.
Witchgrass	<i>Panicum capillare</i>

TABLE 2

The following weeds are controlled by 3/4 to 1-1/2 quarts (0.75 - 1.5 lbs ai) TOUCHDOWN 4LC per acre:

COMMON NAME	SCIENTIFIC NAME
Alfalfa, Volunteer	<i>Medicago sativa</i>
Barley, Little	<i>Hordeum pusillum</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Corn, Volunteer	<i>Zea mays</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
Eveningprimrose, Cutleaf	<i>Oenothera laciniata</i>
Goosegrass	<i>Eleusine indica</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mustard	<i>Brassica</i> spp.
Nightshade, Black	<i>Solanum nigrum</i>
Panic Grass	<i>Panicum</i> spp.
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Quackgrass	<i>Agropyron repens</i>
Ryegrass, Perennial	<i>Lolium perenne</i>
Sicklepod	<i>Cassia obtusifolia</i>
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Timothy	<i>Phleum pratense</i>

TABLE 3

The following weeds are controlled by 1 to 2 quarts (1.0 - 2.0 lbs ai) TOUCHDOWN 4LC per acre:

COMMON NAME	SCIENTIFIC NAME
Brome, Downy	<i>Bromus tectorum</i>
Cocklebur	<i>Xanthium</i> spp.
Dogbane, Hemp	<i>Apocynum cannabinum</i>
Hophornbeam, Copperleaf	<i>Acalypha ostryaefolia</i>
Johnsongrass, Rhizome*	<i>Sorghum halepense</i>
Johnsongrass, Seedling	<i>Sorghum halepense</i>
Milkweed	<i>Asclepias</i> spp.
Purslane, Common	<i>Portulaca oleracea</i>
Radish, Wild	<i>Raphanus raphistrum</i>
Ragweed, Giant	<i>Ambrosia trifida</i>
Shepherd's-purse	<i>Capsella bursa-pastoris</i>

* To control regrowth of rhizome johnsongrass, apply TOUCHDOWN 4LC at or near seedhead stage or later.

TABLE 4

The following weeds are controlled by 1-1/2 to 3 quarts (1.5 - 3.0 lbs ai) TOUCHDOWN 4LC per acre:

COMMON NAME	SCIENTIFIC NAME
Morningglory	<i>Ipomea</i> spp.
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Sida, Prickly	<i>Sida spinosa</i>
Thistle, Canada	<i>Cirsium arvense</i>

TABLE 5

The following weeds are controlled by 2-1/4 to 4 quarts (2.25 - 4.0 lbs ai) TOUCHDOWN 4LC per acre:

COMMON NAME	SCIENTIFIC NAME
Bermudagrass*	<i>Cynodon dactylon</i>
Bindweed, Field**	<i>Convolvulus arvensis</i>
Cogongrass	<i>Imperata cylindrica</i>
Fescue, Tall	<i>Fescue arundinacea</i>
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Velvetleaf	<i>Abutilon theophrasti</i>

- * To control regrowth of bermudagrass, apply TOUCHDOWN 4LC at or near seedhead stage or later.
- ** To control regrowth of field bindweed, apply TOUCHDOWN 4LC at or near flowering stage.

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Syngenta Crop Protection at 1-800-334-9481

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

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