



U.S. ENVIRONMENTAL PROTECTION AGENC

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

NOTICE OF PESTICIDE:

X Registration __ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

United Phosphorus Inc. 423 Riverview Plaza Trenton, NJ 08611

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided you agree in writing to:

- 1. To the label add the correct company name, address, and telephone number.
- 2. To the label add the correct EPA establishment number, registration number, and change the company number.
- 3. To the label add "exist" after "washables" on page 2.
- 3. To the label add "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.".
- 4. Submit and/ or cite all data required for registration/reregistration review of your product when the Agency requires registrants of similar products to submit such data. Submit and/or cite all data required for an endangered species assessment for your product when the Agency requires you to submit such data.

Number:

EPA Reg.

Date of Issuance:

7-7-05 70506-84

Term of Issuance:

Conditional

Name of Pesticide Product:

Bromacil/Diuron 40+40 DF

- 5. The results of the one year storage stability study (830.6317) and corrosion characteristics study (830.6320) must be submitted to the Agency on completion.
- 6. To the "Spray Drift Management" paragraph add "The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations. 1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.

 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed."
- 7. Also add "Sensitive Areas, The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas)." to the "Spray Drift Management" section.
- 8. Under Non-Agricultural Uses on page 14 at the end of the "Weeds Controlled" section in accordance with the Diuron RED reduce the reference to "apply 19-30 pounds (except in Florida) to "Apply 19-20 pounds (except in Florida)". You may add "In areas of high rainfall (40 inches or more per year) and/or dense vegetation (greater than 90% weed ground cover) apply 19 to 30 pounds of product (except in Florida).".

Signature of Approving Official-

Date:

James Tompkins, Product Manager (25)

Herbicide Branch, Registration Division (7505C)

7-7-05

EPA Form 8570-6

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

Sincerely,

James Tompkins

Product Manager (25)

∕Herbicide Branch

Registration Division (7505C)

Bromacil/Diuron 40+40 DF

Herbicide

ACTIVE INGREDIENTS:	2y Weight
Bromacil: (5-bromo-3-sec-butyl-6-methyluracil)	40.0%
Diuron: (3-(3,4-dichlorphenyl)-1,1-dimethylurea)	40.0%
OTHER INGREDIENTS:	20.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	 Call a poison control center or doctor 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	 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.
	HOT LINE NUMBER
Have the produ	act container or label with you when calling a poison control center or doctor, or

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

See inside label booklet for additional PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

EPA Reg. No. 80824-

EPA Est. No.

Manufactured for: AgValue-Bromacil, LLC Visalia, CA 93291

ACCEPTED with COMMENTS in EPA Letter Dated

Net Weight:

Under the Federal Insecticide, Pungioids, and Rodenticide Ast as assended, for the pesticide applicated under EPA Reg. No.

70506-84

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride
- Shoes plus socks

Discard clothing or 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL 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.

User Safety Recommendations

Users should:

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

ENVIRONMENTAL HAZARDS

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 cleaning equipment or disposing of equipment washwaters.

Bromacil is known to leach through soil and has been found in ground water as a result of normal field use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow others to enter the treated area until sprays have dried.

GENERAL INFORMATION

Bromacil/Diuron 40+40 DF is a selective herbicide for use in citrus and in non-crop areas. Bromacil/Diuron 40+40 DF controls many annual weeds at lower rates and perennial weeds at the highest rates allowed by this label.

As this product must be absorbed through the root system of weeds, best results are obtained if treatment is made just before or after weeds have germinated to moist soil and moisture is supplied by rainfall or sprinkler irrigation within two weeks of application. Weed control symptoms are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. The degree and duration of control will vary with the amount of herbicide applied, rainfall, soil texture, and other soil and water management practices.

USE PRECAUTIONS AND RESTRICTIONS

To avoid injury to or loss of desirable trees or other plants, observe the following use guidelines:

- Do not apply this product using any type of irrigation system.
- Except as recommended, do not apply or drain or flush equipment on or near desirable trees or other
 plants, or on areas where their roots may extend, or in locations where the chemical may be washed
 or moved into contact with their roots.
- Do not use in any recreational areas or in or around homes, in home fruit plantings, on lawns, walks, tennis courts, driveways, or other similar areas.
- Do not use in citrus orchards interplanted to other trees or desirable plants.
- Do not allow dry powder or spray to drift to desirable plants.
- Keep from contact with seeds, insecticides, fungicides, and fertilizers.
- Do not store near well sites.
- Do not graze cattle in treated areas.
- Thoroughly clean all traces of Bromacil/Diuron 40+40 DF from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).
- Treated areas may be planted to citrus one year after last application. Do not replant to other crops within two years after last application as injury may result.

When Preparing for Use:

- Calibrate sprayers only with clean water away from well sites.
- Regularly inspect spray equipment.
- Mix only enough Bromacil/Diuron 40+40 DF for the specific application.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Ensure accurate measurement of pesticides.
- Avoid over-filling of spray tank.
- Dilute and agitate excess solution and apply at labeled rates/uses.

Tank Mixture Specific Guidelines:

- Bromacil/Diuron 40+40 DF may be tank mixed with other suitable herbicides registered for use on citrus or non-agricultural use. Use only those herbicides approved for use on citrus if applying to citrus and use only those herbicides approved for use in non-agricultural areas if applying to non-agricultural areas. Refer to the label(s) of the other products being added to the tank mix for any additional use information or restrictions. Before applying a tank mixture, read and observe all label directions for each product. Follow the most restrictive label guidelines.
- Bromacil/Diuron 40+40 DF may also be tank mixed with appropriate adjuvants used with herbicides
 in citrus or non-agricultural uses. Use only those adjuvants approved for use on citrus if applying to
 citrus and use only those adjuvants approved for use in non-agricultural areas if applying to nonagricultural areas.
- When tank mixing with Bromacil/Diuron 40+40 DF, completely mix the product in the spray tank carrier before adding any other herbicide or spray adjuvant. A small compatibility test (see below) should be performed prior to adding the products into the spray tank using a combination of products not previously used. Refer to the Spray Preparation section of this label for further information.
- The spray tank contents must be thoroughly re-agitated if they are allowed to settle for any period of time.

APPLICATION INFORMATION

IMPORTANT NOTE: Bromacil/Diuron 40+40 DF use rates listed on this label are for broadcast treatments. For band treatments, use proportionately less.

Follow the application guidelines below:

- Apply using a properly calibrated fixed-boom power sprayer.
- Because over application of the herbicide may result in injury to the crop or successive crops, the spray booms must be shut off while starting, turning, slowing or stopping.
- Use sufficient spray volume, a minimum of 10 gallons per acre, to provide uniform coverage of the treated areas and to allow proper dispersion and suspension of the product in the spray tank.
- Prior to and during application, continuous agitation is necessary to keep the product in suspension. Agitate spray tank contents by mechanical or hydraulic means; do not use air agitation. Note: If a by-pass or return line is used, it should terminate at the bottom of the tank to minimize foaming.
- Nozzle screens should be 50 mesh or larger.
- Best results are obtained if Bromacil/Diuron 40+40 DF is applied to bare ground. If dense populations of hard-to-kill weed species are present, control of these weeds prior to application of

Bromacil/Diuron 40+40 DF is recommended. If weeds are present at the time of application, tank mixtures with foliar active herbicides are recommended (refer to the Tank Mixture Specific Guidelines section of this label for guidelines on using Bromacil/Diuron 40+40 DF in a tank mixture).

SPRAY PREPARATION

Mixing in Water – Fill tank half full with water. Start agitation system and while continuing to add water, add Bromacil/Diuron 40+40 DF each additional component of any tank-mix separately. Be sure to agitate the entire time.

Test for Mixing with Other Herbicides – Determine the tank mixture partner(s) compatibility with Bromacil/Diuron 40+40 DF by following the directions below. If the testing procedure shows the mixture to be compatible, Bromacil/Diuron 40+40 DF may be used in the tank mixture.

- 1. Put 1 pint of water into a quart jar with a tightly sealing lid.
- 2. In a separate container, combine 2 teaspoons of Bromacil/Diuron 40+40 DF with 2 tablespoonfuls of water; mix thoroughly and add to the water.
- 3. Close the jar and shake well.
- 4. If additional herbicides are to be used in the mixture, follow steps two and three above for each additional herbicide.
- 5. Once all components of the tank mix are combined in the test jar, watch the mixture for several seconds and then check again in 30 minutes. If mixture does not separate, foam, gel or become lumpy, it may be used.

Mixing in Liquid Fertilizer – A fertilizer solution may be used in the spray mixture. Use the procedure above to test for compatibility before full-scale mixing, but in Step 1, in place of the water, use the liquid fertilizer.

If the above procedure indicates the desired mixture will be compatible, prepare the tank mixture as follows:

- 1. Add the fertilizer solution to the spray tank first.
- 2. In a separate container, mix the required amount of Bromacil/Diuron 40+40 DF with water to form a slurry that can be poured.
- 3. With the agitator running, slowly add the slurry to the tank and mix thoroughly.

SPRAY TANK CLEAN OUT

Thoroughly clean all traces of Bromacil/Diuron 40+40 DF from application equipment immediately after use. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Dispose of the equipment wash water by applying it to a use-site listed on this label.

VERIFICATION OF SAFE ROTATIONAL USE IN ARID CLIMATES

In arid climates (areas that experience 10 inches of rainfall or less in a year) or areas that have experienced drought conditions for one or more years, a field bioassay should be conducted prior to planting any desired crop(s). The bioassay may consist of a test strip of the crop and should cross the entire field, including high and low lying portions. If a test strip of the crop(s) intended for production is not successfully grown to maturity, it may be necessary for the two-year crop rotation interval to be extended.

WEED RESISTANCE TO HERBICIDES

Weeds may become resistant to any herbicide if an herbicide is used in the same field repeatedly over several years. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product with a different mode of action.

The following suggestions will assist in managing herbicide resistance:

- It may be necessary to change cropping practices within and between crop seasons. For example, using a combination of tillage, retreatment, tank-mixtures and/or sequential herbicide applications that have different modes of action.
- Preventing weeds from going to seed (by mowing, tilling, etc.) will prevent the spread of resistant plants.
- Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program such as biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SPRAY DRIFT MANAGEMENT

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. Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150-200 microns). 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 Surface Temperature Inversions sections of this label.

Controlling Droplet Size - General Techniques

- 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 designated 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.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

BOOM LENGTH AND HEIGHT

- Boom Length (aircraft) The boom length should not exceed ¾ of the wing length, using shorter booms decreases drift potential. For helicopters, use a boom length and position that prevents droplets from entering the rotor vortices.
- Boom Height (aircraft) Application more than 10 ft. above the canopy increases the potential for spray drift.
- Boom Height (ground) Setting the boom at the lowest height which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and 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 should 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.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature 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 a surface 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.

WEEDS CONTROLLED

ANNUALS

Barnyardgrass Echinochloa crus-galli
Brome, downy (cheatgrass) Bromus tectorum
Chickweed, common Stellaria media
Chickweed, mouseear Cerastium vulgatum
Clovers (annual) Trifolium spp.
Filaree Erodium spp.
Fleabane, flaxleaved (hairy) Conyza bonariensis

Foxtail Setaria spp.
Goatweed Scoparia dulcis
Groundsel Senecio spp.

Horseweed (marestail) Conyza candadensis Johnsongrass Sorghum halepense Junglerice Echinochloa colona Kochia Kochia scoparia Lambsquarter Chenopodium album Lettuce, wild Lactuca serriola Mustard, wild Brassica kaber Natalgrass (red top) Rhynchelytrum repens

Nightshade (annual) Solanum spp.
Pigweed Amaranthus spp.

Pineappleweed Matricaria matricariodes

Puncturevine, common Tribulus terrestris
Purslane, common Portulaca oleracea
Pusley, Florida Richardia scraba
Ragweed, common Ambrosia artemisifolia

Sandbur (sandspur) Cenchrus spp.

Shepherdspurse Capsella bursa-pastoris
Sowthistle, annual Sonchus oleraceus
Spanishneedles Bidens pilosa
Thistle, Russian Salsola australis

PERENNIALS

(Maximum rates and repeat treatments)

Balsamapple vine (seedling)

Bermudagrass

Cynodon dactylon

Drymary

Drymaria spp.

Guineagrass

Milkweed vine (strangler)

Quackgrass

Momordica charantia

Cynodon dactylon

Drymaria spp.

Panicum maximum

Morrenia odorata

Agropyron repens

Vines (seedlings)

Note: Partial control of perennials usually occurs with a single treatment; repeat applications are required to control perennials. Control of perennials may be improved by cultivation prior to treatment; otherwise, avoid working the soil as long as weed control continues otherwise effectiveness of the treatment may be reduced. Multiple applications may improve control of hard-to-kill weeds.

CITRUS

NOTE: Bromacil/Diuron 40+40 DF use rates listed on this label are for broadcast treatments. For band treatments, use proportionately less.

Bromacil/Diuron 40+40 DF may be applied as a broadcast or band treatment beneath and/or between trees. Be sure to review the specific use instructions for use in your State (below) before using this product.

Important considerations for use of Bromacil/Diuron 40+40 DF on Citrus:

- Following treatment, temporary yellowing of citrus leaves may occur.
- When spraying, avoid contact of spray with leaves or fruit.
- Do not use on soils with less than 1% organic matter as injury to citrus trees may result.
- Do not use on poorly drained soils, gravelly soils or thinly covered or exposed subsoils.
- Do not use on diseased or stressed trees.
- Do not use on trees planted in irrigation furrows.
- Do not use in citrus groves interplanted with other desirable trees or plants or in areas where roots of desirable trees or plants may extend as injury to desirable trees or plants may result.
- Do not use in home citrus plantings.
- Do not apply more than 8 pounds product (6.4 pounds active ingredient), inclusive of all bromacil formulations, per treated acre per year.
- When making multiple applications in a single growing season, do not apply at less than 60 day intervals.
- Bromacil/Diuron 40+40 DF may be applied at any time of the year provided rainfall or overhead irrigation is available to activate the herbicide, preferably just before or just after weeds have germinated.
- Do not apply this product in a way that will contact worker or other persons, either directly or through drift.

STATE SPECIFIC USE INSTRUCTIONS

CALIFORNIA, ARIZONA

Trees Established for at least Three Years: Best results occur when applied in late fall or early winter, but before winter annuals become well established. Application should be made after the first fall or early winter rains have settled the soil.

- For the initial treatment, apply 4-5 pounds Bromacil/Diuron 40+40 DF per acre on coarse soils containing 1-2% organic matter and 5-6 pounds per acre on fine soils or soils with organic matter of 2 ½% or more and repeat as needed.
- Alternatively, apply 3-4 pounds per acre in the fall and repeat at 2-4 pounds per acre in the spring.
- When treating to control groundsel or puncturevine, use the highest rate allowed by this label. These rates will also suppress low density stands of bermudagrass and yellow nutsedge. Repeat annually for best results.
- Do not exceed 6 pounds per acre per year.

FLORIDA

The use of Bromacil/Diuron 40+40 DF is prohibited for weed control in non-bedded citrus groves located on any permeable, better drained soil identified in the intended site of application. Permeable, better drained soils which occur in citrus producing areas of the state including unnamed soils and soils with characteristics of quartzipsamments, and the following soil series classifications:

Adamsville	Dade	Orsino
Archbold	Florahome	Palm Beach
Astatula	Fort Meade	Paola
Bahiahonda	Gainesville	Satellite
Broward	Lake	St. Augustine
Canaveral	Lakewood	St. Lucie
Candler	Neilhurst	Tavares
Cocoa	Orlando	

Treated areas may be planted to citrus trees one year after the last Bromacil/Diuron 40+40 DF application. Do not replant to other crops within two years after the last Bromacil/Diuron 40+40 DF application as plant injury may result.

Application Instructions

In Florida, apply Bromacil/Diuron 40+40 DF as a band treatment only using a properly calibrated fixed-boom power sprayer. Do not use Trunk to Trunk.

NOTE: All use rates of Bromacil/Diuron 40+40 DF are expressed for broadcast treatments. For band treatments as required in Florida, use proportionately less.

Trees Established Less than One Year: For control of annual weeds, apply 2 to 4 pounds of Bromacil/Diuron 40+40 DF per treated acre as needed to maintain weed control. Do not apply more than 6 pounds per treated acre during any 6 month period nor more than 8 pounds per treated acre during the first year.

Trees Established One to Three Years: For control of annual weeds, apply 2 to 4 pounds of Bromacil/Diuron 40+40 DF per treated acre. A second application may be made when needed to maintain weed control, but do not exceed 8 pounds per treated acre per year.

Trees Established Three or More Years: Apply 4 to 8 pounds per treated acre as needed to maintain weed control. Do not apply more than 16 pounds of Bromacil/Diuron 40+40 DF per treated acre per year.

Annual Weeds Controlled

Annual clovers	Lambsquarter
Barnyardgrass	Natalgrass (red top)
Chickweed	Nightshade (annual)
Cheatgrass	Pigweed
Crabgrass	Pineappleweed
Filaree	Puncturevine
Fleabane	Purslane
Florida pusley	Ragweed
Foxtail	Russian thistle
Goatweed	Sandbur (sandspur)
Groundsel	Shepherdspurse
Horseweed	Sowthistle (annual)
Johnsongrass (seedling)	Spanish needles

Junglerice Kochia

Wild lettuce Wild mustard

Perennial Weeds Controlled

Balsamapple vine (seedling)

Bermudagrass Heartleaf

Milkweed (strangler)

Drymary

Quackgrass Vine (seedling)

Guineagrass

Note: Use the highest rates allowed by this label for best control of perennial weeds listed on this label. Partial control of perennial weeds can result with only a single treatment of Bromacil/Diuron 40+40 DF. Repeat applications are required (in season and/or annually) for best control of the perennial weeds on this label. Control of perennials may be improved by cultivation prior to treatment, otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced.

Application Timing

Allow a minimum interval of 60 days between applications of Bromacil/Diuron 40+40 DF.

LOUISIANA

Trees Established for at least Three Years:

- Make a single application of 2-4 pounds per acre on coarser soils (sands, loamy sands, sandy loams) and 4-6 pounds per acre on finer soils (silt loams, clay loams, or soils with organic matter of $2\frac{1}{2}\%$ or more).
- Alternatively, make two applications per year at rates of 2 pounds per acre on coarser soils and 3 pounds per acre on finer soils; make the second application when needed to maintain weed control.
- For maximum suppression of perennials, use the highest rate allowable by this label.
- Do not apply more than 6 pounds per acre per year.

TEXAS

Trees Established Less than One Year:

- Apply 2-4 pounds Bromacil/Diuron 40+40 DF per acre as needed to maintain weed control.
- A second application may be made when needed to maintain weed control, however do not apply at less than 60-day intervals.
- Do not apply more than 6 pounds per acre per year.

Trees Established One or Two Years:

- Apply 2-4 pounds Bromacil/Diuron 40+40 DF per acre.
- A second application may be made when needed to maintain weed control, however do not apply more than 6 pounds per acre per year.

Trees Established Three or More Years:

- Make one to two applications per year as needed to maintain weed control.
- Use 2-4 pounds per acre on coarser soils (sands, loamy sands, sandy loams) and 4-6 pounds per acre on finer soils (silt loams, clay loams, or soils with organic matter of 2 ½% or more).

- Use the higher rate for maximum suppression of perennials.
- Do not use more than 6 pounds per acre per year.

NON-AGRICULTURAL USES

Use Restrictions - State of Florida

In Florida, the use of Bromacil/Diuron 40+40 DF (bromacil + diuron) is prohibited in Hardee, Highland, Polk, Orange and Lake Counties. For Non-Agricultural Usage in all other areas of the state, do not apply more than 16 pounds of Bromacil/Diuron 40+40 DF per acre per year. This amount corresponds to 6.4 pounds of bromacil and 6.4 pounds of diuron, the active ingredients in Bromacil/Diuron 40+40 DF. The maximum allowable use rate for bromacil is 6.4 pounds per acre per year inclusive of all bromacil formulations.

Recommendations for Non-Agricultural Uses of Bromacil/Diuron 40+40 DF

Bromacil/Diuron 40+40 DF is recommended for control of undesirable vegetation in non-crop areas such as railroads, highways, pipeline and utility rights-of-way, petroleum tank farms, lumberyards, storage areas and industrial plant sites.

Combination with other herbicides broadens the spectrum of weeds controlled. In addition, total vegetation control can be achieved with higher rates of Bromacil/Diuron 40+40 DF plus residual-type companion herbicides.

To improve the control of emerged weeds, add surfactant at 0.25% by volume.

Do NOT apply this product to:

- Open water (such as creeks, estuaries, lakes, reservoirs, rivers, streams or salt water bays);
- When water is present in fresh water wetlands (such as bogs, marshes, potholes or swamps);
- Saltwater marshes within tidal areas;
- Ditches, banks along waterways or impervious substrates; or,
- Areas near desirable plants where roots of these plants may extend.

Application Information

Apply Bromacil/Diuron 40+40 DF using a properly calibrated fixed-boom power sprayer with sufficient spray volume (minimum of 10 gallons per acre) to provide uniform coverage of the treated area and to allow proper dispersion and suspension of the product in the spray tank. All use rates of Bromacil/Diuron 40+40 DF are expressed for broadcast treatments. For band treatments, use proportionately less.

Notes for Non-Agricultural Uses:

- For small areas, a hand sprayer or sprinkling may be used. When preparing to a small area, ¼ cupful of Bromacil/Diuron 40+40 DF per 200 sq. ft. is approximately 15 pounds per acre.
- Use a spray volume of at least 40 gallons per acre to ensure uniform coverage.
- Do not apply to sites which have roots of desirable plants growing into the treatment zone as plant injury or death may occur.
- Do not apply to hard or impervious soils, water saturated soils or to any surface that does not allow the herbicide to be moved into the soil horizon with moisture. Unusually heavy rainfall shortly after application may move the product off-target to the lowest surrounding point and cause plant injury or death.

• If herbicide treated soil is disturbed by any physical or mechanical means, the herbicide barrier is disrupted and the likelihood of non-performance may increase. For best performance results, make sure the treatment area is stable after the application for the desired weed control period.

Application Timing

Apply Bromacil/Diuron 40+40 DF as a preemergence spray prior to or during the rainy season when weeds are actively germinating or growing. Moisture is required to activate and move Bromacil/Diuron 40+40 DF into the root zone of weeds for preemergence control. For best preemergence weed control, apply prior to rainfall and weed germination.

In arid regions of the Western U.S., to ensure adequate moisture for activation and even dispersion of the herbicide in the soil profile, Bromacil/Diuron 40+40 DF should be applied several weeks prior to the fall freeze or shortly after spring thaw to coincide with periods of higher seasonal moisture. Do not treat frozen or saturated soils, or soils that are non-receptive to percolation.

Retreatments of Bromacil/Diuron 40+40 DF may be made when annual weeds and grasses reappear on sites where weed growth has been controlled. Apply 4-6 pounds of Bromacil/Diuron 40+40 DF per acre.

Application Rates

Apply Bromacil/Diuron 40+40 DF at the rates indicated by weed type in the tables below. When applied at lower rates, Bromacil/Diuron 40+40 DF provides short-term control of the weeds listed; when applied at higher rates, weed control is extended.

Note: Use the higher levels of the dosage ranges listed when applying on adsorptive soils (for example, those high in organic matter or carbon).

Weeds Controlled

Bromacil/Diuron 40+40 DF effectively controls the following broadleaf weeds and grasses when applied at the rates shown.

Broadleaf Weeds - 6 to 8 pounds per acre

Clovers (annual) Trifolium spp.
Fiddleneck Amsinckia intermedia

Filaree Erodium spp. Knapweed, diffuse Centaurea diffusa Lambsquarter, common Chenopodium album Lettuce, prickly Lactuca serriola Mustards Brassica spp. Pigweed Amaranthus spp. Ragweed Ambrosia spp. Helianthus annuus Sunflower, common Thistle, Russian Salsola iberica

Broadleaf Weeds - 8 to 12 pounds per acre

Carrot, wild Caudus carota Dandelion, common Taraxacum officinale Dock, curly Rumex crispus Knapweed, spotted Centaurea maculosa Knotweed, prostrate Polygonum aviculare Kochia Kochia scoparia Marestail, common (horseweed) Convza canadensis Parsnip, wild Pastinaca sativa Plantain Plantago spp. Tribulus terrestris **Puncturevine**

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SpurgeEuphorbia spp.Thistle, milkSilybum marianumYarrow, commonAchillea millefolium

Broadleaf Weeds – 12 to 16 pounds per acre

Cinquefoil, common Potentilla Canadensis

Goldenrod Solidago spp.
Milkweed, common Asclepias syriaca

Grasses - 6 to 8 pounds per acre

Barley, foxtail

Brome

Bromus spp.

Cheat

Cupgrass, Prairie

Hordeum jubatum

Bromus spp.

Bromus secalinus

Eriochloa contracta

Foxtail

Oat, wild

Ryegrass, Italian

Quackgrass

Wheatgrass, intermediate

Eriocnioa contracta

Setaria spp.

Avena fatua

Lolium multiflorum

Agropyron repens

Agropyron intermedium

Grasses – 8 to 12 pounds per acre

BahiagrassPaspalum notatumCrabgrassDigitaria spp.GoosegrassEleusine indicaRyeSecale cerealeVaseygrassPaspalum urvillei

Grasses – 12 to 16 pounds per acre

Bluegrass Poa spp.

Dropseed, sand* Sporobolus cryptandrus

Fescue Festuca spp.
Saltgrass* Distichlis spp.

*Note: Best control of Saltgrass and Sand Dropseed is achieved from a Spring application prior to plant green-up.

For control of hard-to-kill perennials such as bermudagrass (Cynodon dactylon), bouncingbet (Saporaria officinalis), dogbane (Apocynum spp.), Johnsongrass (Sorghum halepense), and nutsedge (Cyperus spp.) apply 19-30 pounds per acre (except in Florida).

For extended control of annual weeds and partial control of perennials such as bermudagrass and nutsedge, apply 10-18 pounds* per acre. For control of hard-to-kill perennials such as bermudagrass, bouncingbet, dogbane, johnsongrass, and nutsedge, apply 19 to 30 pounds (*except in Florida*) per acre. Use the higher Bromacil/Diuron 40+40 DF rates on adsorptive soils (high in organic matter or carbon). Best results occur when application is made just before weed emergence or in the early stages of weed growth.

SPECIAL USES

UNDER ASPHALT AND CONCRETE PAVEMENT

Important Precautions when Applying Under Asphalt

- Do not use Bromcil/Diuron 40+40 DF under pavement in residential properties such as driveways, or in recreational areas, including jogging or bike paths, tennis courts, or golf cart paths.
- Desirable plants may be injured if their roots extend into treated areas or if planted in treated areas.

Application Information

Bromacil/Diuron 40+40 DF may be used to control weeds under asphalt and concrete pavement such as that used in parking lots, highway shoulders, median strips, roadways and other industrial sites.

Bromacil/Diuron 40+40 DF should only be used in an area that has been prepared according to good construction practices. Use sufficient water to ensure uniform coverage, generally 100 gallons per acre. Agitate the tank continuously to keep Bromacil/Diuron 40+40 DF in suspension.

Application Timing

Bromacil/Diuron 40+40 DF should be applied immediately before paving to avoid lateral movement of the herbicide as a result of soil movement due to rainfall or mechanical means.

Application Rates

Apply Bromacil/Diuron 40+40 DF at 17 to 30 pounds per acre. Use a higher rate on hard to control weeds and/or for longer term weed control.

Tank Mixtures

To control a broader spectrum of weeds, or for an extended period of weed control, a tank mixture of Bromacil/Diuron 40+40 DF at 7 to 15 pounds per acre plus Oust® XP at 4 to 8 ounces per acre may be used.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store product in original container only.

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

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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AgValue-Bromacil, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. AgValue-Bromacil, LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.



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- (2) Replacement of amount of product used

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