

BASF

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NVA 99-4-73-0137
Notification
11-15-99

Drive[®] 75 DF herbicide

Active ingredient	
3,7-dichloro-8-quinolinecarboxylic acid.....	75.0%
Inert Ingredients	25.0%
Total	100.0%

EPA Reg. No. 7969-130 EPA Establishment Number 65387-AR-001

KEEP OUT OF REACH OF CHILDREN.

CAUTION

ACCEPTED
MAR 29 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No 7969-130

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Causes moderate eye injury. May cause allergic skin response.

First Aid

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 by a poison control center or doctor or give anything by mouth to an unconscious person.

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 first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Environmental Hazards

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the **Directions For Use** section for information about this standard.

Net contents: 1 pound

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

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

Engineering Controls Statement

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

Directions For Use

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

For use only by certified commercial applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

All applicable directions, restrictions and precautions are to be followed. This labeling must be in the possession of the user at time of application.

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 specified 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, and water, is:

- coveralls
- waterproof gloves
- shoes plus socks

Nonagricultural 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, nurseries, or greenhouses.

Professional applications to residential and nonresidential turf are not within the scope of the Worker Protection Standard.

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

Storage and Disposal

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

Storage: Do not store box under dampness or high humidity.

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: Dispose of empty packaging in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In Case of Emergency

In case of large-scale spillage regarding this product, call:
CHEMTREC 1-800-424-9300
BASF Corporation 1-800-832-HELP

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment.
2. Your local poison control center (hospital).
3. BASF Corporation 1-800-832-HELP.

General Information

Drive® 75 DF herbicide may be applied postemergence to residential and nonresidential turfgrasses (see **Table 1**) for the extended control of many broadleaf and grass weeds (see **Table 2**).

Mixing

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
 - 2) **Products in PVA bags:** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
 - 3) **Water-dispersible products:** (such as **Drive 75 DF**, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
 - 4) **Water-soluble products:**
 - 5) **Emulsifiable concentrates** (methylated seed oil when applicable)
 - 6) **Water-soluble additives**
 - 7) Remaining quantity water
- Maintain constant agitation during application.

Control Symptoms

Drive® 75 DF herbicide is absorbed by foliage and roots and translocated throughout the plant. The control symptoms exhibited by broadleaf weeds include leaf and stem curl or twisting; and chlorosis. Susceptible grasses demonstrate stunting, chlorosis, and gradual reddening followed by necrosis and death (see **Tables 1** and **2**).

Application Information

Apply **Drive 75 DF** to actively growing weeds as postemergence broadcast or spot sprays at the rate and growth stage indicated (**Table 2**). Do not exceed the recommended application rate or fail to comply with use restrictions listed in **General Restrictions and Limitations**.

Spray Equipment:

Apply **Drive 75 DF** through a standard hydraulic sprayer or a pressurized system. Commercial hose proportioner-type sprayers or applicators may also be used. Do not apply by air or through irrigation equipment.

Nozzle Selection:

Flat fan, flood, and cone nozzles may be used. Nozzles should be arranged to obtain uniform coverage of turf and weeds to be controlled.

Boom height, nozzle selection, and pressure should be adjusted to provide uniform coverage and minimize spray drift.

Spray Volume:

Apply **Drive 75 DF** at a minimum spray volume of 20 gallons per acre (approximately 0.5 gallons per 1,000 square feet). Apply when wind speed is less than 10 mph as drift may cause damage or death of non-target vegetation. Do not apply when conditions favor drift from target area as drift may cause damage or death of non-target area vegetation.

Additives

To achieve consistent weed control, methylated seed oil is recommended (see **Table 2** for rates). Chelated iron or sprayable soluble nitrogen fertilizer will reduce a slight yellowing that may occur on some turfgrass species. Do not add additives when tank mixing with EC (Emulsifiable Concentrate) products; this may cause phytotoxicity. Consult your local TopPro representative or distributor for recommendations for your area. Other additives or adjuvants may be used where past experience dictates, however, some of these products may cause phytotoxicity or less than optimal efficacy.

Methylated Seed Oil

Methylated Seed Oil must meet all of the following criteria:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, any Methylated Seed Oil should contain emulsifiers to provide good mixing quality.

Adding adjuvants may cause slight leaf burn, but new growth is normal and crop vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high.

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

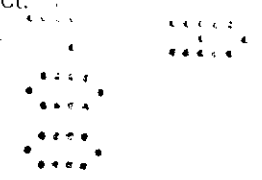
- 1) **Water:** — For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) **Products in PVA bags:** — Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Cap the jar and invert 10 cycles.
- 3) **Water-dispersible products:** (such as **Drive 75 DF**) — (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) Cap the jar and invert 10 cycles.
- 4) **Water-soluble products:** — (such as **Basagran T/O**) Cap the jar and invert 10 cycles.
- 5) **Emulsifiable concentrates:** — (methylated seed oil) - Cap the jar and invert 10 cycles.
- 6) **Water-soluble additives:** — Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

Spot Applications:

Postemergence spot applications may be made to susceptible weeds in turfgrass that is tolerant to **Drive 75 DF** (see **Tables 1** and **2**). Apply 0.367 ounce of **Drive 75 DF** per 1,000 square feet of treated area. Apply the spray solution to weed foliage on a spray-to-wet basis. Spray coverage should be uniform and complete.

Procedure For Cleaning Spray Equipment

Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.



Mowing Information

It is not recommended to mow 2 days before or after applying **Drive® 75 DF** to maximize weed control and minimize potential turf injury. Clippings from the first three mowings should be left on the treated area.

Irrigation and Rainfall

If soil moisture is not sufficient prior to **Drive 75 DF** application, irrigation may improve weed control. For best results, do not water or irrigate for 24 hours after application. Rainfall, watering, or irrigation 2 to 7 days after application is recommended.

Goosegrass/Extended Grass Control

Drive 75 DF may be applied early postemergence to crabgrass but before goosegrass germination in tank mixes with pendimethalin or **Barricade**, or other dinitroaniline products to provide residual control of annual grasses. Consult the respective tank mix labels for additional weeds controlled.

Seeding/Overseeding

The use of **Drive 75 DF** before or after seeding or overseeding a turf area will not significantly interfere with the grass seed germination and growing for those grass types identified in **Table 1**. Application must be made before the turf seedlings emerge.

Do not apply within 4 weeks after seedling emergence of perennial ryegrass or Kentucky bluegrass.

General Restrictions and Limitations

- Do not apply more than 2 pounds of **Drive® 75 DF** herbicide per acre (or 0.73 ounces per 1,000 square feet) in one year.
- Do not apply to fine fescue unless it is part of a seed blend.
- Do not apply to bahiagrass, carpetgrass, St. Augustinegrass, centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- Do not apply within 4 weeks after seedling emergence of Kentucky bluegrass and perennial ryegrass.
- Do not apply to exposed feeder roots of trees or ornamentals.
- Do not apply into any ornamental bed.
- Do not use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.
- Apply when wind speed is less than 10 mph as drift may cause damage or death of non-target area vegetation. Do not apply when conditions favor drift from target area.
- Use a lawn type sprayer with coarse spray as wind drift is less likely.
- Avoid mist and spray onto vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants, especially plants belonging to the **Solanaceae** family such as **tomatoes, eggplants, and bell peppers**.
- Do not pour spray solutions near these plants.
- Be particularly careful within the dripline of trees and other ornamental species.
- Do not apply to golf course collars or greens.
- Do not apply through any type of irrigation system.
- Do not use to formulate or reformu-

late any other pesticide product which is not registered by EPA.

-For best results, weeds should not be under stress from lack of water, excessive water, low fertility, mowing shock, excessive hot or cold temperatures, or injury from other herbicide applications.

Tank Mixing

Read and follow the applicable **Restrictions and Limitations and Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Separate applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Tank Mix Partners/Components

The following herbicides may be tank mixed with **Drive 75 DF** for additional weed control, according to the specific tank mixing instructions in this label and respective product labels:

2,4-D
2,4-DP
Acclaim®
Balan®
Barricade®
Basagran® SG
Basagran® T/O
Confront®
Gallery®
Illoxan®
MCPA
MCPP
MSMA
pendimethalin
Pendulum®
Pre-M®
Prompt® 5L
Sencor®
Surflan®
Three Way™
Turflon®
Treflan®
Trimec®

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Drive 75 DF** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

Table 1. Turf Tolerance (Established)

Highly Tolerant	Moderately Tolerant ¹	Susceptible
Bermudagrass, Common ² Bluegrass, Kentucky Bluegrass, Annual ¹ Buffalograss Fescue, Tall Ryegrass, Annual Ryegrass, Perennial Zoysia ²	Bentgrass, Creeping ¹ Bermudagrass, Hybrid Fescue, Fine ³ , Red , Hard , Chewing's	Bahia Centipede Dichondra St. Augustine

- ¹ Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer (See **Application Information, Additives**).
- ² **Drive® 75 DF herbicide** may also be used at any time before or after sprigging or plugging.
- ³ Apply **Drive 75 DF** to fine fescue only when it is part of a blend.
- ⁴ Do not use on golf course greens and collars.

Table 2. Application Rates and Timing for Postemergence Weed Control in Turf

Weed	Drive 75 DF Rate	Additive Rate
Barnyardgrass Bindweed, Field Black medic ¹ Clover, Hop , Red , White Crabgrass, Large ^{2,4} , Smooth ^{2,4} Dandelion, Common ³ Dollarweed Foxtails, Giant ² , Green ² , Yellow ² Kikuyugrass ¹ Signalgrass, Broadleaf ² Speedwell, Common , Slender , Thymeleaf Torpedograss ¹	1 pound per acre or 0.367 ounce per 1,000 square feet	1.5 pints per acre (0.55 oz per 1,000 square feet) methylated seed oil

- ¹ Make 2 applications of 0.367 ounce of **Drive 75 DF** per 1,000 square feet for general turf.
- ² Apply before tillering.
- ³ Tank mix partner or sequential application required.
- ⁴ Not for use in California.

Appendix

The following are scientific names for the weeds listed on this label controlled or suppressed by **Drive 75 DF**:

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crusgalli</i>
Bindweed, Field	<i>Convolvulus arvensis</i>
Black medic	<i>Medicago lupulina</i>
Clover, Hop	<i>Trifolium aureum Pollich</i>
, Red	<i>Trifolium pratense</i>
, White	<i>Trifolium repens</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
, Smooth	<i>Digitaria ischaemum</i>
Dandelion, Common	<i>Taraxacum officinale</i>
Dollarweed	<i>Hydrocotyle umbellata</i>
Foxtails, Giant	<i>Setaria faberi</i>
, Green	<i>Setaria viridis</i>
, Yellow	<i>Setaria glauca</i>
Kikuyugrass	<i>Pennisetum clandestinum</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Speedwell (Veronica)	
, common	<i>Veronica officinalis</i>
, slender	<i>Veronica filiformis</i>
, thymeleaf	<i>Veronica Serpyllifolia</i>
Torpedograss	<i>Panicum repens</i>

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result, because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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