

279-3265

12-4-2003

1/5

# F8426 HERBICIDE

EPA Reg. No 279-3265

EPA Est. 279-

**Active Ingredient:**

Carfentrazone-ethyl: Ethyl  $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate.....

**By Wt.**

21.3%

**Inert Ingredients:**.....

78.7%

100.0%

This product contains 1.9 pounds active ingredient per gallon.

Contains Petroleum Distillates  
U.S. Patent No. 5,125,958

## KEEP OUT OF REACH OF CHILDREN CAUTION

See other panels for additional precautionary information.

FIRST AID	
IF INHALED	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p align="center"><b>HOTLINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.</p> <p><b>Note to Physician:</b> This product is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care. This product may pose an aspiration pneumonia hazard.</p>	

For information Regarding the Use of this Product Call 1-800-321-1FMC (1362).

FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

**ACCEPTED**

DEC 4 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 279-3265

2/5

## PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals)

#### CAUTION

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

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. 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.

#### User Safety Recommendations:

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### Environmental Hazards

F8426 is very toxic to algae and moderately toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark, except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

### Physical/Chemical Hazards

#### FLAMMABLE

Do not use or store near heat or open flame.

### 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 through any type of irrigation system.

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.

### 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.

*Re-entry Statement:* Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

### STORAGE AND DISPOSAL

#### Pesticide Storage

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put granule or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by inappropriate storage or disposal.

In case of spill, avoid contact, isolate area and keep out unprotected persons and animals. Confine spills. Call FMC: (800) 331-3148.

To confine spill: Dike surrounding area, sweep up spillage. Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a large holding container. Identify contents per required hazardous waste labeling regulations.

#### Pesticide Disposal

Waste resulting from the use of this product may be disposed of at an approved waste disposal facility.

#### Container Disposal

Triple rinse (or equivalent). Then offer for approved pesticide container recycling program, or puncture and dispose of in an approved waste disposal facility. Provided on site incineration is allowed by state and local authorities, stay out of smoke.

**GENERAL INFORMATION**

F8426 is a formulation which is emulsifiable in water. It is designed to be mixed with water and applied to ornamental lawns and turfgrass for selective postemergent control of broadleaf weeds. Weed control is best when the product is applied to small actively growing weeds (1-4 inches in height). F8426 is a contact herbicide with little or no residual activity at recommended use rates.

F8426 is rapidly absorbed through the foliage of plants. The herbicide is rainfast within one hour after application. Within a few hours following application, the foliage of susceptible weeds show signs of desiccation, and in subsequent days necrosis and death of the plant.

Under some conditions, some temporary discoloration of turfgrass may occur one to three days following application. Some additives (e.g. adjuvants, wetting agents, surfactants), liquid fertilizers may exacerbate transient discoloration. Extremes in environmental conditions e.g. temperature and moisture, soil conditions, and cultural practices may effect the activity of F8426. Under warm moist conditions, herbicide symptoms may be accelerated, while under very dry conditions, the expression of herbicide symptoms is delayed. Weeds hardened off by drought are less susceptible to F8426 and the higher label rates are recommended to provide control.

*Unless specified on this label, do not tank mix F8426 with other herbicides.*

**Mixing and Loading Instructions**

Fill the spray tank 3/4 full with clean water. Make sure the agitation system is operating. Add the recommended amount of F8426 and complete filling the spray tank to the desired level. The spray tank agitation should be sufficient to ensure uniform spray mixture during application. F8426 is believed to be compatible with most herbicides, fungicides, insecticides, growth regulators, liquid fertilizers and spray adjuvants commonly used in turf and lawn care management. However, when preparing a new tank mix, always conduct a physical compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar). Shake the mixture vigorously and allow it to stand for five to ten minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be applied. To evaluate the biological compatibility of a mixture being used for the first time, spray a small area and observe for control and phytotoxicity symptoms for several days.

*Do not use with tank additives that alter the pH of the spray solution below pH5 or above pH8. Buffer spray solution to alter the pH range as appropriate.*

**Ground Applications**

For best spray distribution and coverage, select a spray volume and delivery system that will ensure accurate and uniform coverage. Use a boom sprayer equipped with appropriate nozzles, tips, and screens. Use flat fan nozzle tips and in-line strainers equipped with no finer than 50 mesh screens.

Do not use flood nozzles, Raindrop®, or nozzle tips larger than 8008. Spray droplets larger than 400 microns may reduce coverage and subsequent loss in weed control. Applications should be made using spray volumes of 20-175 gallons per acre (0.5 to 4.0 gallons per 1000 sq.ft.). Use higher spray volumes when there is a dense weed population or crop canopy. Use spray pressures of 20-40 psi.

Do not apply when conditions are conducive to spray drift or poor spray coverage.

**Spray Equipment Clean-Out**

Residues left in mixing equipment, spray tanks, hoses, spray booms and nozzles can cause non-target plant effects if they are not properly cleaned. Because F8426 can be highly phytotoxic to sensitive ornamental plants it is strongly recommended that only equipment that is dedicated exclusively to turf and lawn herbicides be used in the application of F8426.

If not using a dedicated sprayer, observe the following cleanout procedures:

1. Drain spray tank, hoses, and boom and thoroughly wash the inside of the sprayer tank free of visible sediment and residues. Thoroughly flush tank, sprayer hoses, boom, and nozzles.
2. Fill the tank with clean water, and add 1 gallons of ammonia (containing at least 3% active) for every 100 gallons of water. Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom and nozzles. Let the solution stand in the hoses, tank, boom and nozzles for several hours or overnight.
3. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses and boom. Repeat the clean water rinse and flush. Remove and clean nozzles and screens separately.

For more specific information on clean-out procedures contact FMC at 800-321-1362.

Do not apply sprayer cleaning solutions or rinsate to any lawns, ornamentals, gardens or crops.

Should small quantities of F8426 remain in mixing, loading and/or spray equipment that has been cleaned as described above, they may be released during subsequent applications potentially causing effects to non-target vegetation. FMC accepts no liability for adverse responses to non-target plants or crops.

**Turfgrass and Sites**

F8426 is intended to be applied by lawn care operators, maintenance applicators, and service technicians for use in ornamental lawns and turf established in institutional, ornamental, and residential/domestic sites. Institutional sites are defined as turf areas around properties or facilities providing a service to public or private organizations including, but not limited to hospitals, nursing homes, schools, museums, libraries, sports facilities, golf courses (excluding greens and tees), and office buildings. Ornamental sites include turfgrass established around residences, parks, streets, retail outlets, cemeteries, industrial and institutional buildings. Residential/domestic sites are defined as areas associated with the household or home life including, but not limited to apartment complexes, condominiums, and patient care areas of nursing homes, men-at-institutions, hospitals, or convalescent homes.

Newly seeded and established turf of Kentucky bluegrass, perennial ryegrass, tall fescue, fine leaf fescues, and creeping bentgrass may be treated. Common bermudagrass, bahiagrass, zoysiagrass, St. Augustinegrass, and centipedegrass may be treated.

Care must be taken to avoid spray drift onto non-target susceptible plants such as vegetables, flowers, ornamentals, trees, shrubs and other desirable plants. Do not apply this product to carpetgrass, dichondra, hybrid bermudagrass nor on lawns or turf where desirable clovers are present.

The tolerance to F8426 varies between turfgrass species and temporary phytotoxicity may occur in some instances.

**Application schedules for ornamental lawns and turfgrass**

This product may be used alone or in combinations with other herbicides labeled for use to control broadleaf weeds that are emerged and actively growing.

This product may be tank mixed with other herbicides registered for use on ornamental lawns and turfgrass to broaden the weed control spectrum. Observe all precautions, instructions, limitations and guidelines of each product's label when tank mixing.

Tank mixtures are recommended for more advanced weeds, for mid and late season applications and for dense infestations of annual, biennial and perennial weeds. Sequential or follow-up applications may be required for dense infestations of perennial and biennial broadleaf weeds.

**Use rates and spray volumes for ornamental lawns and turfgrass**

Use rates and spray volumes of this product in ornamental lawns and turfgrass are presented in Table 1.

Generally, the lower application rates within the specified range will provide satisfactory control of sensitive weed species. The higher application rates within the specified range will be required for dense infestations of perennial weeds, for adverse/extreme environmental conditions, or for weeds beyond the appropriate growth stages.

Use rates less than one fluid ounce of F8426 per acre should only be used in combination with other herbicides registered for use in ornamental lawns and turf.

Do not apply more than 2.1 fluid ounces of product (0.031 lbs of carfentrazone-ethyl) per acre per application or more than 6.3 fluid ounces (0.093 lbs carfentrazone-ethyl) per acre per season.

The minimum retreatment interval for sequential broadcast applications of this product on turfgrass is two (2) weeks.

**Table 1: Application Rates for Ornamental Lawns and Turfgrass**

Species	Ounces of product per Acre	Ounces of product per 1000 sq. ft.	Milliliters of Product per 1000 sq. ft.
<b>Cool Season Turf</b>			
Kentucky Bluegrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Perennial Ryegrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Fescue spp.	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Creeping Bentgrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
<b>Warm Season Turf</b>			
Common Bermudagrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Bahiagrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Buffalograss	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Centipedegrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
Zoysiagrass	1.1 to 2.1 ounces	0.025 to 0.048	0.75 to 1.4
St. Augustinegrass	0.55 to 1.5 ounces	0.012 to 0.034	0.4 to 1.0

**Tank mixtures for postemergence applications for ornamental turfgrass**

This product may be tank-mixed with herbicides containing amines, esters and salts of 2,4-D, dichloroprop, dicamba, Mecoprop, MCPA, either alone or in combinations with other herbicides. This product may also be tank-mixed with atarazine, clopyralid, foransulfuron, glufosinate, glyphosate and metsulfuron. For tank mixing with herbicides not listed above, that are registered for use on turf grass, mix a small amount with this product in proper proportions and apply to a small area. Observe the mixture itself for any signs of product incompatibility and observe the area treated with the mixture for at least 7 days to determine turf tolerance. Read each product's label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

When applied as directed, F8426 alone or when applied in combination with other herbicides, will control the following weeds:

Partial List of Broadleaf Weeds (up to 4 inches)		
Bedstraw, catchweed	Florida pusley	Pigweed (prostrate, redroot, smooth)
Black medic	Ground ivy	Plantain (buckhorn, narrow leaf)
Buttonweed, virginia	Groundsel, common	Purslane
Burweed, lawn	Henbit	Speedwell, com
Chickweed	Kochia	Spurge, spotted
Clover, white	Lambsquarters, common	Thistle
Dandelion	Pennycress, field	Wild violets

**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 beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. **FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT.** Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

In no event shall FMC 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 FMC 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 FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

FMC—Trademark of FMC Corporation

Raindrop® - Trademark of Delevan Corporation