

[Front Cover of Booklet]

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Turflon* D

Low Volatile Weed Killer

For the control of annual and perennial broadleaf weeds in ornamental turf.

To be applied only under the direct supervision of commercial applicators responsible for turf weed control programs.

Active Ingredient(s):

2,4-dichlorophenoxyacetic acid, butoxyethyl ester †	34.4%
triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester	16.5%
Inert Ingredients	49.1%
Total	100.0%

Contains Petroleum Distillates

Acid Equivalents:

2,4-dichlorophenoxyacetic acid - 23.7% - 2 lb/gal

triclopyr - 11.9% - 1 lb/gal

†Isomer Specific by AOAC Method No. 978.05 (15th Ed.)

Keep Out of Reach of Children

CAUTION

PRECAUCION

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

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

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE), Engineering Controls Statements and User Safety Recommendations, and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of an emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-67

EPA Est. 464-MI-1

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Specialty Herbicide

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

PRECAUCION

Harmful If Swallowed, Inhaled, Or Absorbed Through Skin • Causes Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Skin Reactions In Some Individuals

Avoid contact with skin, eyes or clothing.

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 E on an EPA chemical resistance category selections chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton
- Shoes plus socks
- Protective eyewear
- For containers of over 1 gallon, but less than 5 gallons: Mixers and loaders who do not use a mechanical system (such as probe and pump) to transfer the contents of this container must wear coveralls or a Chemical-resistant apron in addition to other required PPE.

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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Controls Statements:

For containers of 5 gallons or more: A mechanical system (such as probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use 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.

First Aid

In case of contact: Flush skin or eyes with plenty of water. Get medical attention if irritation persists.
If swallowed: Do not induce vomiting. Call a physician or poison control center.

Environmental Hazards

This product is toxic to fish. Drift or runoff may adversely affect fish and nontarget plants. Do not apply directly to water, to areas where surface water is present or to intertidal area below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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Physical or Chemical Hazards

Combustible - Do not use or store near heat or open flame. Do not cut or weld container.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying. Do not use for manufacturing or formulating.

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 such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton
- Shoes plus socks
- Protective eyewear

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.

Restricted Entry Interval: For use on residential and other turf sites (excluding sod farms and turf grown for seed), do not allow people (other than applicator) or pets on treatment area during application. Do not enter into treated areas until sprays have dried.

Storage And Disposal

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

Storage: Store above 10°F or agitate before use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Plastic Container Disposal: Do not reuse container. 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 Container Disposal: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Consult federal, state, or local disposal authorities for approved alternative procedures.

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General Information

Foliage sprays should be applied during warm weather when weeds are actively growing. Application under drought conditions may provide less than desirable results. Use low spray pressures to minimize spray drift. Apply Turflon D herbicide in a manner to avoid contacting nearby susceptible crops or other desirable plants and to avoid contaminating water intended for irrigation or domestic use. Read and follow all Use Precautions given on this label.

General Use Precautions

Apply this product only as specified on this label.

Be sure that use of this product conforms to all applicable regulations.

Restrictions on Retreatment: Do not apply more than 2 broadcast applications per year per treatment site.

Chemigation: Do not apply this product through any type of irrigation system.

Do not apply Turflon D directly to, or otherwise permit it to come into direct contact with cotton, grapes, tobacco, vegetable crops, flowers, fruit or ornamental trees, or other desirable broadleaf plants and do not permit spray mists containing it to drift onto them.

Do not apply to exposed roots of shallow rooted trees or shrubs. Do not apply more than 2 quarts of Turflon D on any one acre at one time. Do not apply more than 4 quarts of Turflon D per year.

Avoid injurious spray drift. Applications should be made only when hazards from spray drift are at a minimum. Very small quantities of spray, which may not be visible may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured.

With ground broadcast equipment, drift can be reduced by keeping the spray boom as low as possible; by applying no less than 20 gallons of spray per acre; by using no more than 20 pounds spraying pressure with flat fan or flooding flat fan nozzle tips; and by spraying only when wind velocity is low.

In handgun applications, drift can be reduced by using low pressure Teejet flat fan, raindrop, or other drift controlling nozzles. Standard flat fan nozzles may also be used at no more than 20 psi. At this pressure, the spray pattern may be narrower.

At high temperatures, vapors from this product may injure susceptible crops growing nearby. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination and plant growth.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

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Weeds Controlled

black medic
 bull thistle (a)
 burdock (a)
 buttercup (a)
 Canada thistle (a)
 carpetweed
 catnip
 chamise
 chickweeds (common and mouseear)
 chicory
 cinquefoil
 clovers
 cocklebur
 coffeeweed
 comflower
 cornspeedwell (b)
 creeping beggarweed
 dandelion
 dayflower
 docks
 dwarf beggarweed
 field bindweed
 goldenrod
 ground ivy (b)
 henbit

hopclover
 knawel
 lambsquarter
 lespedeza
 little starwort
 mallow
 matchweed
 mustards (a)
 oxalis (*stricta* and *corniculata*) (b)
 parsley piert (b)
 plantain
 poison ivy
 poison oak
 prostrate spurge (b)
 purslane speedwell
 smartweed
 sowthistle
 spiderwort
 spotted catsear
 spurtweed
 vetch
 wild carrot (a)
 wild violet (b)
 yarrow

(a), (b) - See "Broadcast Treatment of Ornamental Turf".

Preparing the Spray

Turflon D in water forms an emulsion (not a solution), and separation may occur unless the spray mixture is agitated continuously. Fill the spray tank about half full with clean water. Then add the Turflon D and complete filling the tank with agitation running. Mix thoroughly and continue moderate agitation while spraying.

Approved Uses

Turf

Broadcast Treatment of Ornamental Turf

Apply 1 to 2 quarts of Turflon D in enough water to make 20 to 200 gallons total spray per acre to control broadleaf weeds growing in tall fescue, bluegrass, or perennial ryegrass turf. Do not use on other grass species, such as bentgrass or St. Augustine grass, unless injury can be tolerated. Turflon D at 3 pints per acre (1.1 ounce per 1,000 square feet) will provide control of most weeds listed. The use of 4 pints per acre (1.5 ounces per 1,000 square feet) is suggested for those followed by (a). Optimum control of those species followed by (b) has been obtained when two applications of 3 pints per acre have been made 4 weeks apart. Apply from early spring through early fall when weeds are growing. To control a variety of broadleaf weed species which may germinate at different periods, three or four applications of Turflon D may be needed during a year. Applications should be made four weeks apart to minimize grass injury.

Newly seeded turf should be mowed two or three times before being treated. Do not water for 24 hours after application. Do not reseed for three weeks after application.

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Spot Treatment of Ornamental Turf Using Portable Sprayers

Mix one to two fluid ounces of Turlon D in enough water to make three gallons of spray (one to two quarts per 100 gallons of spray) and apply at any time broadleaf weeds are susceptible by wetting foliage of undesirable plants to point of runoff.

Warranty Disclaimer

DowElanco 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. DowElanco MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

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[Base Label of Datapak - Turflon D]

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EPA Reg. No. 62719-67

EPA Est. 464-MI-1

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Specialty Herbicide

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Registration Notes:

Turflon[®] D

EPA Reg. No. 62719-67

Final Printed Labeling: Label text based on EPA-accepted copy dated January 23, 1993 and revisions required by the WPS dated October 13, 1994.

Revisions EPA-accepted 10/13/94: Labeling amended to meet the requirements of the Worker Protection Standard (WPS) and the 2,4-D Exposure Reduction Program, and as required by WPS guidance for 2,4-D.

Background

Labeling for Turflon D was submitted to EPA on 11/19/93 for the purpose of adding label statements to comply with requirements of the Worker Protection Standard. EPA rejected DowElanco's 11/19/93 submission on April 18, 1994, on the grounds that it did not completely remove this product from the scope of the WPS. It is apparent in this letter that EPA confused labeling for Turflon D (62719-67) with the labeling for Crossbow herbicide (62719-260). Crossbow herbicide was formerly registered as 62719-67, however, on February 28, 1994, EPA granted DowElanco's request for a new registration number for this product (62719-260) in order to remove it from the scope of the WPS. On April 18, 1994, EPA requested an additional change to the label for Crossbow to complete this action. DowElanco has responded to this request as follows:

EPA Comment referencing Crossbow Weed and Brush Control (62719-67) regarding an exclusionary statement "to prevent the use of forage that is to be cut and sold for commercial purposes".

DowElanco Response: This comment is no longer relevant to Turflon D because: (1) Uses of Crossbow are now differentiated from those of Turflon D by assignment of a new registration number to Crossbow (62719-260); and (2) Turflon D is used only on ornamental turf and therefore reference to harvest of forage for livestock is not relevant to this use.

WPS Comments

EPA Comment 1: Wording of the first two statements in the Non-Agricultural Use Requirements box on your proposed label is incorrect.

DowElanco Response: The following wording, in accordance with WPS requirements, has been added to the label for Turflon D: "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."

EPA Comment 2: One or more statements in the Non-Agricultural Use Requirements box is not found on your original label. Delete the crossed-out sentence(s). If you wish to retain the sentence(s) you must submit an amendment request to the Product Manager. If there are no remaining requirements in the box after you delete the sentence(s), delete the entire Non-Agricultural Use Requirements box. Please refer to the instructions starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

DowElanco Response: Additional statements in the Non-Agricultural Use Requirements box, not found in the original label, were added in accordance with requirements of the 2,4-D Exposure Reduction Program; specifically correspondence dated October 30, 1992, as follows (par 3, page 3): "Products registered for use on residential and other turf sites (excluding sod farms) must bear the following language: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried or dust has settled." In this certified letter, EPA specifies language which must appear on technical and manufacturing use products. This language, in turn, specifies information and revised use directions that must appear on "end use" products formulated from such technical and manufacturing use products. Statements that must appear on end use labeling were further modified by EPA instructions on combining ERP and WPS requirements dated September 2, 1993. The reentry statements in question, however, were not modified by these instructions.

Other:

1. Maximum application rate and maximum application rate per year were revised to per requirements of the 2,4-D Exposure Reduction Program (See General Use Precautions section);
2. Added "Total ... 100.0%" line to ingredients statement.

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