



# TREFLAN\* 5G

A selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in: Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Established Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards, Christmas Tree Plantations, Non-cropland, Under Paved Surfaces.

**Active Ingredient:**

.trifluralin: a, a, a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine . . .5.0%  
.Inert Ingredients . . . . .95.0%  
.Total . . . . .100.0%

Contains 2 pounds active ingredient per 40 pound bag.

EPA Reg. No. 62719-98-32802

EPA Est. No. 32802-WI-1 (A), 32802-MO-1 (B)

First letter of bag code shows establishment where manufactured.

Distributed by:

HOWARD JOHNSON'S ENTERPRISES, INC.  
700 W. Virginia Street, Milwaukee, WI 53204-1548

\*Treflan is a trademark of Dow AgroSciences LLC

**Notice: Read the entire label. Use only according to label directions. Before using this product, read "Warranty Disclaimer," "Inherent Risks of Use," and "Limitation of Remedies" at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

**Net Weight: 40 lbs (18.14 kg)**

## 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.)

### Precautionary Statements Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear: Long-sleeved shirt and long pants, Chemical resistant gloves, such as butyl rubber > 11 mils; or natural rubber > 14 mils; or nitrile rubber > 14 mils., 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**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with 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**

**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:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. 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 poison control center or doctor for treatment advice.  
**If inhaled:** Move person to fresh air. If PPE is not breathing, call 911 or ambulance, then give artificial respiration, preferably by 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. You may also contact 1-800-992-5994 for emergency medical treatment information.

**Environmental Hazards**

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. 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 apply in a manner that will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters.

### 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 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, Shoes plus socks.

**Non-Agricultural Use Requirements:** The requirements of 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 dusts have settled. If soil incorporation is required after the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporation) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry after the watering-in.

### Storage and Disposal

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

Storage: Store in original container only. In case of leak or spill, contain material and dispose as waste.

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.

**General Information:** Treflan\* 5G herbicide is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, Christmas tree plantations, noncropland, and under paved surfaces. Apply Treflan 5G before or after planting but prior to germination of target weeds, or immediately after cultivation. Length of weed control will vary with weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat applications should not be made sooner than 60 days after a previous application of Treflan 5G. Do not apply over 240 pounds per acre total of Treflan 5G within a 12-month period.

**General Use Precautions:** Treflan 5G does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation, is required to activate Treflan 5G. Optimum weed control is obtained when Treflan 5G is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible, Treflan 5G may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate Treflan 5G within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of Treflan 5G granules from the target area.

Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application.

Do not aerially apply this product.

Apply Treflan 5G using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first. APPLY 5.5 TO 7.3 LBS PER 1000 SQ. FT.

### Weeds controlled by Treflan 5G when applied at 80 lb/acre (1.8 lb/1000 sq ft)

Annual Grasses:

Common Name	Scientific Name
barley, hare	Hordeum leporinum
barnyardgrass (watergrass)	Echinochloa crus-galli
bluegrass, annual	Poa annua
brome	Bromus spp.
crabgrass	Digitaria spp.
cupgrass, southwestern	Eriochloa gracilis
fescue, rattail	Vulpia myuros
foxtail	Setaria spp.
goosegrass	Eleusine indica
jungerice	Echinochloa colonum
lovegrass	Eragrostis spp.
oat, wild	Avena fatua
panicum, fall	Panicum dichotomiflorum
sandbur, field	Cenchrus incertus
signalgrass	Brachiaria spp.
sprangletop, Mexican	Leptochloa univervia

Ornamental Bulbs: Treflan 5G may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply Treflan 5G to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. Treflan 5G may also be applied following bulb emergence. For fall planted bulbs, apply Treflan 5G again in late winter or early spring to weed-free soil surfaces.

Non-bearing † Fruit and Nut Trees and Non-bearing Vineyards

Almond, Apple, Apricot, Avocado, Blackberry, Blueberry, Boysenberry, Sour Cherry, Sweet Cherry, Currant, Dewberry, Elderberry, Fig, Filbert, Gooseberry, American Grape, European Grape, Grapefruit, Kiwi, Lemon, Loganberry, Macadamia Nut, Nectarine, Olive, Orange, Peach, Pear, Pecan, Pistachio, Plum, Pomegranate, Prune, Raspberry, Black Walnut, English Walnut.

† Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants that will not bear fruit for at least one year after treatment.

Christmas Tree Plantations: Apply Treflan 5G to established plantings of field grown Christmas tree species listed on this label. Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. Follow all instructions provided in the "General Information" section of this label.

Non-cropland Areas: Treflan 5G is recommended as a preemergence herbicide for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guard rails, sign posts and delineators.

Apply Treflan 5G anytime prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Refer to the "General Information" section prior to using this product on non-cropland.

Use Under Paved Surfaces:

Site Preparation

Treflan 5G should be used only where the soil to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, they should be removed by scalping with grader blade to a depth sufficient to ensure their complete removal.

Application

Application may be made after the final road bed is established or after the base rock has been added. Do not move soil after application of Treflan 5G and do not apply Treflan 5G to soil where asphalt may be applied directly on top of the treated soil.

Paving should follow applications of Treflan 5G as soon as possible.

Apply Treflan 5G to ensure thorough coverage of the base rock layer. Apply with any granular applicator that will apply uniformly.

Apply the following amount of Treflan 5G	
Amount of Treflan 5G	
Per Acre	Per 1000 sq ft
240 – 320 lb	5.5 – 7.3 lb

**Terms and Conditions of Use:** If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

**Warranty Disclaimer:** Seller 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. SELLER 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 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 Seller'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.

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

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

Common Name

stinkgrass  
witchgrass

Scientific Name

Eragrostis ciliaris  
Panicum capillare

Annual Broadleaf Weeds

Common Name

chickweed, common  
goosefoot, nettleleaf  
knotweed, prostrate  
kochia  
lambsquarters, common  
nettle, stinging  
pigweed  
purslane, common  
thistle, Russian

Scientific Name

Stellaria media  
Chenopodium murale  
Polygonum aviculare  
Kochia scoparia  
Chenopodium album  
Urtica dioica  
Amaranthus spp.  
Portulaca oleracea  
Salsola iberica

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 80 lb/acre (1.8 lb/1000 sq ft).

Common Name

carpetweed  
johnsongrass (from seed)  
panicum, Texas  
pusley, Florida  
shattercane

Scientific Name

Mollugo verticillata  
Sorghum halepense  
Panicum texanum  
Richardia scabra  
Sorghum bicolor

**Application Directions:** Apply Treflan 5G using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or plant injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

**Application Techniques for Applying Treflan 5G:** When using a drop-type spreader, a splash board mounted under the hopper will provide more even granule distribution. A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps. For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed. A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, hard to treat areas. Carefully measure the amount of product needed to avoid over-application.

**Approved Uses:** Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Ground Covers, Established Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards and Christmas Tree Plantations.

Treflan 5G is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards and Christmas tree plantations. Apply Treflan 5G before or after planting but prior to germination of target weeds, or immediately after cultivation.

Refer to the "General Information" section of this label for general use precautions and information on application, application rates and weeds controlled.

Special Use Precautions

To avoid possible injury, do not apply Treflan 5G to nursery forest or Christmas tree seedling beds, cutting beds, or transplant beds, unrooted liners or cuttings that have been planted in pots for the first time, pots less than four inches wide, or ground covers until they are established and well rooted. Do not apply Treflan 5G to newly transplanted ornamentals, nursery stock, ground covers, flowers and non-bearing fruit and nut crops and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur. Do not make preplant applications of Treflan 5G to areas where gladioli corms less than one inch in diameter will be planted or injury may occur. Do not apply Treflan 5G in greenhouse or other enclosed structures.

Repeat applications should not be made sooner than 60 days after a previous application of Treflan 5G. Do not apply over 240 pounds per acre total of Treflan 5G within a 12-month period.

Users who wish to use Treflan 5G on plant species not recommended on this label may determine suitability for such uses by making trial application of Treflan 5G at a recommended rate to small number of plants. Prior to using Treflan 5G on a larger number of plants, the treated plants should be observed for signs of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from the use of Treflan 5G on plant species not recommended on this label.