



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 16, 2025

SENT BY EMAIL

Shannon Cooley
scooley@controlsolutionsinc.com
CONTROL SOLUTIONS, INC.

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Adding storage and disposal language and other minor label revision.
Product Name: CSI 18-288 PRODIAMINE + OXADIAZON WITH FERTILIZER
Admin Number: 53883-461
EPA Receipt Date: 12/18/2024
Action Case Number: 00639976

Dear Shannon Cooley:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Hector Escobar by telephone at (202) 566-1371 or via email at escobar.hector@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis, Senior Advisor
FHB, RD
Office of Pesticide Programs

NOTIFICATION

53883-461

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/16/2025

RESTRICTED USE PESTICIDE

Due to Potential Human Health Risks of Concern (Cancer) From Chronic Dietary or Dermal Exposure When Used in Accordance with Label Directions.

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

OXADIAZON	GROUP	14	HERBICIDE
PRODIAMINE	GROUP	3	HERBICIDE

CSI 18-288 Prodiamine + Oxadiazon with Fertilizer

For sale to and use by professional applicators only.

CSI 18-288 Prodiamine + Oxadiazon with Fertilizer is a selective pre-emergence herbicide for control of crabgrass, goosegrass, annual bluegrass and crowfoot on turf and golf courses, on established bermudagrass, zoysia grass, St. Augustine grass, ryegrass, centipede grass, bentgrass, bluegrass, tall fescue grasses, and a wide variety of woody ornamental shrubs, trees, and vines.

CSI 18-288 Prodiamine + Oxadiazon with Fertilizer also controls many annual broadleaf weeds, including spotted spurge, knotweed, chickweed, yellow woodsorrell and clovers.

Active Ingredients:

Oxadiazon: 2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-delta-2,1,3,4-oxadiazolin-5-one.....	1.0%
Prodiamine: (N3,N3 - Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine.....	0.2%
Other Ingredients	98.8%
TOTAL	100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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.)

FIRST AID	
If on skin or clothing:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or when going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 8:00 AM – 12:00 PM PST. You may also contact Safety Call at (866) 897-8050----- for emergency medical treatment information. {Note to reviewer: The service provider and phone number may vary on the market label.}	

EPA Reg. No. 53883-461
Net Contents:

EPA Est. No. XXXXX-XX-XXX

Manufactured By:
Control Solutions, Inc.
5903 Genoa Red Bluff
Pasadena, TX 77507

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT
(PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material.

Loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Waterproof gloves

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

User Safety Recommendations:

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Apply only as specified on this label.

Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This pesticide is toxic to oysters and shrimp.

Groundwater Advisory: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow. This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of oxadiazon from runoff water and sediment.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize drift.

PRODUCT INFORMATION

CSI 18-288 Prodiamine + Oxadiazon with Fertilizer is a selective, pre-emergent herbicide for control of annual grasses and broadleaf weeds in established bermudagrass, bluegrass, tall fescue grasses, and on a wide variety of woody ornament shrubs, vines, and trees. It is especially effective on crabgrass (*Digitaria* spp.), goosegrass (*Eleusine indica*), annual bluegrass (*Poa annua*) and crowfoot (*Dactyloctenium aegyptium*). Many broadleaf annual weeds such as spotted spurge (*Euphorbia maculata*), knotweed (*Polygonum* spp.), chickweed (*Stellaria media*), yellow woodsorrell (*Oxalis*), and white clover (*Malba medic*) are controlled pre-emerge from seed. **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** controls the weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

[Ureaform is the fertilizer carrier of the herbicides in **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer**. Ureaform is a slow-release, non-burning, non-leaching, odorless, pathogen-free source of nitrogen. Applied at 200 lbs. per acre, it provides the majority or total quantity of nitrogen required by bermudagrass or bluegrass during the entire growing season.] {For use only when Ureaform is present in the formulation.}

For best results, water-in the product as soon as practical after application.

USE RESTRICTIONS:

- Not for sale to or use by homeowners/consumers.
- Not for use on home lawns
- Do not apply more than 600 pounds of product per acre per year (equivalent to 6 pounds ai/A/year) except in areas of heavy weed infestation.
- In areas of heavy weed infestation on golf course turf only, do not apply more than 750 pounds of product per year (equivalent to 7.5 pounds ai/A/year).
- In areas of heavy weed infestation on golf course turf only, do not apply more than 400 pounds of product per acre (equivalent to 4 pounds ai/A in a single application).
- Do not graze or feed livestock forage cut from areas treated with CSI 18-288 Prodiamine + Oxadiazon with Fertilizer.
- Do not apply this product through any type of irrigation system.
- Do not apply by aerial application.

DIRECTIONS FOR USE Restricted Use Pesticide

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, 40CFR 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 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 into treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water is:

- Coveralls,
- Shoes plus socks
- Waterproof gloves
- 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.

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.

WEED RESISTANCE MANAGEMENT

For resistance management, please note that CSI 18-288 Prodiamine + Oxadiazon with Fertilizer contains both a Group 3 (Prodiamine) and Group 14 (Oxadiazon) herbicide. Any weed population may contain or develop plants naturally resistant to Group 3 and 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of CSI 18-288 Prodiamine + Oxadiazon with Fertilizer or other Group 3 and 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact your local Control Solutions Inc. distributor or sales representative.

For all use sites:

- The minimum retreatment interval (RTI) between applications is 60 days.
- Total applications of oxadiazon of all physical forms must not exceed 6.0 lbs a.i./A/year if this product is used on the same site with liquid formulations.
- After application, user must thoroughly irrigate the site as soon as possible on the same day of application.

For oxadiazon uses on turf:

- A maximum single application rate of 3.0 lbs a.i./A and maximum annual application rate of 6.0 lbs a.i./A.
- For applications on non-agricultural turf (e.g., golf courses, parks, athletic fields) that follow a liquid application, CSI 18-288 Prodiamine + Oxadiazon with Fertilizer must be applied 60 days or later after the liquid application. After applying this product, no liquid applications of oxadiazon are allowed within the same calendar year on the same area of turf.
- For applications to non-agricultural turf (e.g., golf courses, parks, athletic fields), this product may not be applied prior to any liquid applications of oxadiazon within the same calendar year on the same area of turf.
- On golf course turf only: In areas of heavy weed infestation only, the maximum single application rate is 4.0 pounds of active ingredient per acre, and the maximum annual application rate is 8.0 pounds of active ingredient per acre. No liquid applications may be applied on areas of turf treated at this maximum application rate in the same year.
- On golf course turf only: total applications of oxadiazon of all physical forms are limited to 30% of the total managed turf area of a golf course per year. Applications may be made to any turf surface type, including fairways, tees, greens, roughs, non-playable turf surfaces, or other managed turf areas. This 30% limit may be applied to the same or different turf areas from one year to the next.
- On golf courses and sod farms: A minimum 10-foot-wide untreated vegetative buffer must be maintained between the treated area and any surface water features.

For ornamental landscaping, trees, shrubs, and nurseries:

- A maximum single application rate of 3.0 lbs a.i./A, and a maximum annual application rate of 6.0 lbs a.i./A.

TURF

Apply **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** at 200 lbs. product per acre for weed control (4 1/2 lbs. per 1000 sq. ft.). Apply in early spring before weed seed germination.

Apply to dry foliage with a properly calibrated granular applicator at the specified rate prior to weed seed germination. Complete aerifying, verticutting and raking before applying **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer**, so that the protective chemical barrier is not disrupted.

Use only on established turfgrasses. Germination of overseeded grasses may be reduced by as much as 50% more or less, if seeded within 6 months of an application. For newly seeded bermudagrass, ryegrass, and bluegrasses, delay application until after second mowing. Use on newly sprigged or vegetative planted bermudagrass and bluegrass after stolons have rooted.

APPROXIMATE SPREADER SETTINGS

(For applying **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** in one pass over turf)

Listed below are approximate spreader settings. These should serve only as initial starting points for calibration because all spreaders will vary in their operation depending on the age, condition, particular model and speed of operation. Always calibrate your own spreader according to the manufacturer's instructions.

Rate: 200 lbs. per acre, or 4 1/2 lbs. per 1000 sq. ft.

SPREADER TYPE	WIDTH	SETTING
Cyclone:		
Model B-1-80	6.5' spread	4.0
Gandy:		
Turf Tender Speed 4 mph	(24 & 42 inch)	3.8
Scott:		
Model 100	36" spread	5 ¾
Model R8 Cone	12' spread	K ½
Model R7X	12' spread	N
Lely	Roman Numeral II, speed 4.5	5 1/4
Vicon	Speed 3.5 mph	35

Walking speeds should be adjusted to generate indicated spread widths. Slower speeds result in smaller spreads.

WOODY ORNAMENTAL SHRUBS, VINES AND TREES

Apply **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** to established plants any time during the year, prior to weed seed germination. **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** can be applied to both newly transplanted and established ornamentals. Delay application to new transplants until soil has settled around plant. Application can be made to actively growing or dominant ornamentals. Cultivating or disturbing the soil may reduce the weed control of **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer**

Use Restrictions

- **DO NOT** apply to wet foliage or under conditions in which granules will collect on leaves.
- **DO NOT** apply in greenhouses.

CSI 18-288 Prodiamine + Oxadiazon with Fertilizer should be applied at 200 lbs. of product/acre or 4 ½ lbs./1000 sq. ft. prior to susceptible weed seed germination, with a suitable spreader which will assure accurate, even particle distribution. Do not apply herbicide granules to wet foliage as phytotoxicity can result. Applications should be made to weed free surfaces. Susceptible weeds are listed on this label under the " Information" section. **CSI 18-288 Prodiamine + Oxadiazon with Fertilizer** has shown excellent results when used on the following:

Container and/or Field Grown Ornamentals

Scientific Name	Common Name
Acacia spp.	Acacia
Acer palmatum	Japanese Maple
Barberis gladwynesis	Barberry
Betula papyrifera	Birch, Paper
Buxus microphylla	Weeping Bottlebrush
Callistemon viminalis	Camellia, Common, Japanese
Camellia japonica	False Cypress
Chamaecyparis pisifera	
Comus florida	Flowering Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster spp.	Cotoneaster
Cupressus spp.	Cypress
*Euonymus fortunei	Wintercreeper
Forsythia intennedia	Border Forsythia
Gardenia jasminoides	Gardenia, Cape
	Jasmine
*Ilex spp.	Holly
Jasminium nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
Ligustrum amurense	Amur Privet
Lonicera japonica	Japanese
	Honeysuckle
Magnolia spp.	Magnolia species
Nerium spp.	Oleander
Pachysandra	Pachysandra
terminalis	
Photinia fraseri	Frasier's Photinia
	(Redtip)
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley
	Shrub
Pinus spp.	Pine
Pittosporum rhombifolium	Queensland
P. tobira	Pittosporum
Prunus laurocerasus	Japanes Pittosporum
Pyracantha coccinea	English Laurel
Querus spp.	Firethorn, Scarlet
Raphiolepis indica	Oak Species
*Rhododendron spp	Indian Hawthorne
(including azalea)	'Coral Bells'
	'Formosa'
	'Hino-crimson'
Santolina virens	'PMJ'
Taxux cuspidate	'Roseum Elegans'

T. media	Green Santolina
Thuja Occidentalis	Japanese Yew
Viburnum japonica	Yew
Vinca major	American Arborvitae
Vinca minor	Japanese Virburnum
Weigela florida	Vinca
	Dwarf Periwinkle
	Old Fashioned
	Weigela
Xylosma congestum	Xylosma

*Certain cultivars of these species may be sensitive to this herbicide. Growers should evaluate usage on a small scale prior to large scale application if not know.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in a cool place. Protect from excessive heat

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal Law. 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.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or 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.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risk associated with the 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 the manner of use or application, all of which are beyond the control of Control Solutions, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc election, the replacement of product.

{Optional State Language}

In Florida, for application to golf courses, parks or athletic fields, follow application rates as recommended in the documents entitled (a) University of Florida, Institute of Food and Agricultural Sciences SL191 "Recommendations for N, P, K and Mg for Golf Course and Athletic Field Fertilization Based on Mehlich III Extractant", revision: October 2013; copies of which may be obtained from the Soil and Water Science Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611

Use in accordance with the recommendations in "Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses", published by the Florida Department of Environmental Protection, dated September 2012, which is hereby adopted and incorporated by reference into this rule. Copies may be obtained from Florida Department of Environmental Protection, 2600 Blair Stone Road, Mail Station #3570, Tallahassee, FL 32399-2400

Do not exceed rates recommended in the document entitled "Florida Friendly Best Management Practices for Protection of Water Resources by the Green Industries", published by the Florida Department of Environmental Protection, Revised December 2008, 2nd Printing 2010, which is hereby adopted and incorporated by reference into this rule. Copies may be obtained from Florida Department of Environmental Protection, 2600 Blair Stone Road, Mail Station #3570, Tallahassee, FL 32399-2400