

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Joseph W. Burley, Ph.D. Sipcam Agro USA, Inc. 2520 Meridian Parkway Suite 525 Durham, NC 27713

OCT - 9 2012

Subject:

Product Name: Sipcam Prodiamine 65WDG

Proposed Alternate Brand Name: PrimeraOne Prodiamine 65WDG Herbicide

EPA Registration Number: 60063-26 Application Dated: July 11, 2012 Label Notification per PRN 98-10

Dear Dr. Burley,

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for Sipcam Prodiamine 65WDG (EPA Reg. No. 60063-26) dated July 11, 2012. The Registration Division (RD) 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 label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please contact Emily Hartman of my staff at (703) 347-0189 or hartman.emily@epa.gov.

Sincerely.

Kathryn W Montague, Project Manager 23

Herbicide Division Registration Division

Office of Pesticide Programs

Please read instructions on reverse before completi.	rm.	Form Approved. C	0. 2070-0060	. Approval Expires 05-31-98.
	nited States		Registration	OPP Identifier Number
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Washir	ngton, DC 20460		Other	•
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Company/Product Number	Application for P	2. EPA Product Manager		7
60063-26		Kathryn Montag	ue	3. Proposed Classification
4. Company/Product Name		PM#	,	None Restricted
Sipcam Prodiamine 65WDG		23		None Restricted
5. Name and Address of Applicant (Include ZIP Code)		6 Evnedited Pavious	In accordance wit	h FIEDA Soction 2(a)(2)
	'			h FIFRA Section 3(c)(3) composition and labeling
Sipcam Agro USA, Inc.		· to:		TIFICATION
2520 Meridian Parkway, Suite 525	Y	EPA Reg. No.		•
Durham, NC 27713		<del></del>		CT 0 9 2012
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Check if this is a new address	Soci	tion - II		
Amendment - Explain below.		Final printed labe Agency letter date		
Resubmission in response to Agency letter dated		"Me Too" Applicat		
Notification - Explain below.		Other - Explain be	elow	
	or section Land Costion II \			
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This notification is consistent with the prov				
changes have been made to the labeling or				
violation of 18 U.S.C. Sec. 1001 to willfully				
consistent with the terms of PR Notice 98-1				
may be subject to enforcement action and p				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		ion - III		
1. Material This Product Will Be Packaged In:				
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1. Contact Point (Complete items directly below for ident	tification of individual to be	contacted, if necessary, to	process this applicat	ion.) c
Name	Title		Tele	ephone No: (Include Area Code)
Joseph W. Burley	Registr	ation Manager		(919) 226 1297
	Certification			6. Date Application
I certify that the statements I have made on this form an		•	).	Received
I acknowledge that any knowingly false or misleading st	atement may be punishable t	by fine or imprisonment or		(Stamped)
both under applicable law.	3. Title		<del></del>	<del>-</del>
2. Signature	i	tration Manager		
1 40SINGLY	Kegis	stration Manager		
4. Typed Name	5. Date		- <u>-                                  </u>	
Joseph W. Burley	07/11/1	12		
	1 ' ' ' '			1

July 11, 2012

Ms. Katherine Montague (PM23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Subject: Sipcam Prodiamine 65WDG (EPA Reg. No. 60063-26)
Notification of Alternate Brand Name: PrimeraOne Prodiamine 65WDG Herbicide

Dear Ms. Montague:

With this correspondence we are establishing an Alternate Brand Name for the subject product.

- Application for pesticide Form 8570-1
- One copy of the revised label incorporating the Alternate Brand Name "PrimeraOne Prodiamine 65WDG Herbicide"

Please note that Sipcam intends to commence use of the Alternate Brand Name, PrimeraOne Prodiamine 65WDG Herbicide, immediately.

Thank you for your cooperation in this matter. If you have any questions, please feel free to call me at (919) 226 1297

Sincerely,

Joseph W. Burley Ph.D. Registration Manager

Sipcam Agro USA, Inc.



## SIPCAM AGRO USA, INC.

## Sipcam Prodiamine 65WDG

### Alternate Brand Name: PrimeraOne Prodiamine 65WDG Herbicide

For preemergence control of grass and broadleaf weeds in:

Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries;

NOTIFICATION

> Landscape ornamentals in nurseries or in established plantings;

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- Established perennials and wildflower plantings;
- Plants grown for cut foliage production (Florida only);
- > Conifer and hardwood tree seedling nurseries;
- Christmas tree farms:
- Managed transportation and utility rights-of-way, including rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, ungrazed fencerows).

#### **ACTIVE INGREDIENT:**

Prodiamine (CAS No. 29091-21-2)	65.0%
OTHER INGREDIENTS:	35.0%
	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 SWALLOWED	> Have > Do no	poison control center or doctor immediately for treatment advice affected person sip a glass of water if able to swallow. It induce vomiting unless told by a poison control center or doctor give anything by mouth to an unconscious person.	·
IF ON SKIN OR CLOTHING	> Rinse	off contaminated clothing. skin immediately with plenty of water for 15 - 20 minutes. poison control center or doctor for treatment advice.	c c c c
IF IN EYES	▶ Remo	eye open and rinse slowly and gently with water for 15 - 20 minute ove contact lenses, if present, after the first 5 minutes, then contin poison control center or doctor for treatment advice.	
IF INHALED	> If pers	person to fresh air. son is not breathing, call 911 or an ambulance, then give artificial ably mouth-to-mouth if possible. poison control center or doctor for further treatment advice.	respິ່ງເຂົ້າເຂົ້າ
Have the product co	ntainer or la	bel with you when calling a poison control center or doctor, or goi	ng for treatment.
Emergency phone n	umbers	(800) 424-9300 CHEMTREC (transportation and spills) (800) 900-4044 Poison Control Center (human health) (800) 345-4735 ASPCA (animal health)	

EPA REG. NO. 60063-26

Net contents: 10 pounds

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals.

#### PERSONAL PROTECTIVE EQUIPMENT

#### WPS USES:

Mixers, loaders and applicators and other persons who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural-plant uses are covered – must wear:

- > Long-sleeved shirt and long pants
- ➤ Chemical resistant gloves, such as butyl rubber >14 mils, or neoprene rubber > 14 mils, or nitrile rubber >14 mils (See instructions for Category A on the EPA chemical resistance category selection chart B you want other options.)
- Shoes plus socks

#### **NON-WPS USES:**

Mixers and loaders who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural-plant uses are covered by the WPS – must wear:

Waterproof gloves

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 CONTROL STATEMENTS**

When handlers use closed systems or enclosed cabs 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.
- After handling this product, immediately wash the outside of gloves before removing them, then remove gloves and all other PPE. Immediately wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be 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. Drift and treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water.

#### **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 in a way that will contact workers or other persons, either directly or through (Irifte 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.

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#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard, 40 CFF 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. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Waterproof gloves
- Shoes plus socks

#### WHERE TO USE

PrimeraOne Prodiamine 65WDG Herbicide is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- > Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries;
- Landscape ornamentals in nurseries or in established plantings;
- > Established perennials and wildflower plantings;
- > Plants grown for cut foliage production (Florida only);
- > Conifer and hardwood tree seedling nurseries;
- Christmas tree farms:
- Managed transportation and utility rights-of-way, including rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, ungrazed fencerows).

#### **HOW PRIMERAONE PRODIAMINE 65WDG HERBICIDEWORKS**

PrimeraOne Prodiamine 65WDG Herbicide controls susceptible weeds by preventing growth and development of newly germinated weed seeds. Weed control is most effective with PrimeraOne Prodiamine 65WDG Herbicide is activated by at least 0.5 inch of rainfall or irrigation or shallow incorporation (1 to 2 inches) before weed seeds germinate and within 14 days following application.

#### **USE PRECAUTIONS**

- 1. Do not graze or feed livestock forage cut from areas treated with PrimeraOne Prodiamine 65WDG Herbicide.
- 2. Follow all applicable directions, restrictions, and precautions on the labels of EPA-registered tank mix partners.
- 3. Do not blend PrimeraOne Prodiamine 65WDG Herbicide onto dry fertilizer or any other granular material.
- 4. Chemigation: Do not apply this product through any type of irrigation system unless instructed otherwise in this label.
- 5. Do not apply aerially.
- 6. Do not apply to golf course putting greens.

#### MIXING AND APPLICATION

#### **Mixing**

PrimeraOne Prodiamine 65WDG Herbicide must be mixed thoroughly in the spray tank to ensure uniform application. Follow these steps:

- 1. Fill the spray tank ¼ full with clean water or fluid fertilizer only.
- 2. Start agitation and check to ensure it is working properly.
- 3. Add PrimeraOne Prodiamine 65WDG Herbicide directly into the tank.
- 4. Add the rest of the carrier to obtain the final spray volume.
- 5. A spray colorant may be used with PrimeraOne Prodiamine 65WDG Herbicide to mark areas as they are treated.

  This will improve application accuracy by minimizing swath skips and overlaps.
- 6. Maintain vigorous agitation in the spray tank before and during the application. This will ensure a well-mixed spray suspension.

Do not allow spray suspension to dry in the tank. Thoroughly clean the sprayer after use by flushing the system
with water containing a detergent. Refer to the Pesticide Disposal section of this label for waste disposal.

#### Tank Mixing PrimeraOne 65WDG Herbicide

PrimeraOne Prodiamine 65WDG Herbicide may be tank mixed with certain other EPA-registered herbicides to provide a broader spectrum of weed control or to control emerged weeds. Refer to the specific directions for use for tank mix partners, and consult the label(s) of the individual tank mix partners(s) for use rate, application timing, weeds controlled, and specific precautions and/or restrictions. Tank mixes are permitted only in states where the tank mix partners(s) are registered for the application site and the turf and ornamental species listed. When using PrimeraOne Prodiamine 65WDG Herbicide in a tank mixture with other pesticides, observe the most restrictive label limitations and precautions on the labels of the products used.

Before tank mixing pesticides, it is advisable to test compatibility by mixing the products in a small container first. See the Compatibility Test section.

#### **Compatibility Test**

Before mixing PrimeraOne Prodiamine 65WDG Herbicide with other pesticides in the spray tank, test the compatibility by mixing all components (carrier and pesticide products) in a small container in proportionate quantities. For example, a 1-qt. Jar would be 1/100 the volume of a 25 gals./A spray rate. At 1 lb./A the PrimeraOne Prodiamine 65WDG Herbicide rate would be proportional to 4.5 g per qt. Add approximately 1.5 teaspoons to a qt. of water. Calculate amounts for the other products based on rate per acre. An approximate volume would be 1.5 teaspoons for each lb./A of a dry formulation and 0.5 teaspoons for each pt./A of a liquid formulation. (See following table.)

#### Amount of Component to Add to One quart Jar of Spray Carrier (Assuming Carrier Volume of 25 gals./A)

	Rate Per		,	
Component Formulations	Acre	1,000 sq. ft.	Level Teaspoons	
PrimeraOne Prodiamne 65WDG Herbicide	1.0 lb.	0.4 oz.	1.5	
Dry Tank Mix Partners	1.0 lb.	0.4 oz.	1.5	
Liquid Tank Mix Partners	1.0 pt.	0.4 oz.	0.5	

If components do not ball-up or form flakes, sludge, gels, oily films or layers, then the mixture is compatible. Incompatibility will usually occur within 5 minutes after mixing. If the components are not compatible, use a compatibility agent and rerun the test to determine if the mixture is suitable. If components are still not compatible, do not tank mix.

#### Mixing Order for Tank Mixtures

**Notes:** (1) When mixing PrimeraOne Prodiamine 65WDG Herbicide with other components (carrier and partner pesticide products), allow products to completely dissolve between steps. This is key when tank mixing with ester formulations. (2) Maintain agitation throughout mixing and application of the mixture.

#### Add the products to the spray tank in the following order:

- 1. Add products packaged in water-soluble bags first. Agitate the tank mixture. Allow the water-soluble bags to completely dissolve and the product to disperse before adding any other tank mix partner.
- Then add water-dispersible granules (WDG or WG formulations) and wettable powders (WP formulations). Add
  wettable powders to the tank as agitation continues. Allow the product to disperse completely before other
  products are added.
- 3. Add spray adjuvants and spray markers. Read the adjuvant's label first and use only those adjuvant's approved for application to turf and ornamentals. When an adjuvant is to be used with this product, Sipcam Agro USA recommends the use of a Chemical Producers and Distributors Association certified adjuvant.
- 4. Add flowable liquids (FL) or suspension concentrates (SC).
- 5. Add emulsifiable concentrates (EC) last.

#### Application

Apply PrimeraOne Prodiamine 65WDG Herbicidein a minimum of 20 gals/A (0.5 gal./1,000 sq. ft.) of carrier (water and/or fluid fertilizer) using a calibrated, low-pressure sprayer with 50-mesh or coarser screens. A broadcast boom or handheld wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

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#### **Weeds Controlled**

When used as directed in this label, PrimeraOne Prodiamine 65WDG Herbicide will control the following weeds:

Barnyardgrass	Goosegrass 5/	Purslane, common
Bluegrass, annual ( <i>Poa annua</i> ) 1/	Henbit <sup>2/</sup>	Pusley, Florida
Carpet weed	Itchgrass	Rescuegrass 4/
Chickweed, common 2/	Johnsongrass (from seed)	Shepherds purse 2/
Chickweed, mouseear (from seed)	Junglerice	Signalgrass, broadleaf
Crabgrass (Large, Smooth) 3/	Knotweed 2/	Speedwell, Persian
Crowfootgrass	Kochia	Sprangletop
Cupgrass, woolly	Lambsquarter, common	Spurge, prostrate
Foxtails, annual	Lovegrass	Witchgrass
Pigweed	Panicum (Texas, Fall, Browntop)	Woodsorrel, yellow (from seed)

In areas where *Poa annua* is a winter annual, apply PrimeraOne Prodiamine 65WDG Herbicide in August or September to established, non-overseeded turf before *Poa annua* seeds germinate. These timings are approximate. Consult State Extension Service for more specific timing for your area. Also see the section of this label *Poa Annua* Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only).

Do not exceed a dosage of 1.5 lbs. a.i./Acre, (2.3 lbs./A of this product) per year on any use site.

<sup>&</sup>lt;sup>2</sup>To control this weed, apply PrimeraOne Prodiamine 65WDG Herbicide in late summer, fall, or winter before weed seeds germinate.

<sup>&</sup>lt;sup>3</sup>Fall applications for spring crabgrass control in cool-season grasses: In those areas where the ground freezes in the winter, PrimeraOne Prodiamine 65WDG Herbicide can be applied in the fall at rates of 1.0-1.15 lbs./A after the soil temperature falls below 50°F but before the ground freezes. This application will control crabgrass the following spring.

<sup>&</sup>lt;sup>4</sup>Suppression only.

<sup>&</sup>lt;sup>5</sup>In any area a single application of 1-2.3 lbs./A of PrimeraOne Prodiamine 65WDG Herbicide will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective control may be obtained by making an initial application of 1-1.5 lbs./A followed, after 60-90 days, by a second application that does not exceed the maximum rate for that turfgrass species listed in the Maximum Application Rate Table.

#### **ESTABLISHED TURF**

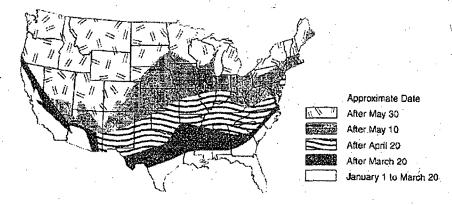
PrimeraOne Prodiamine 65WDG Herbicide is a preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turfgrasses including:

- > Golf courses excluding putting greens
- Lawns
- Sod nurseries

The maximum amount of PrimeraOne Prodiamine 65WDG Herbicide that may be applied per year is given for each turfgrass species in the Annual Use Rates section of the label.

For optimum weed control, PrimeraOne Prodiamine 65WDG Herbicide should be activated by at least 0.5 inch of rainfall or irrigation before weed seeds germinate and within 14 days following application. See the map below for approximate crabgrass seen germination dates.

#### **CRABGRASS SEED GERMINATION DATES**



#### **Use Precautions-Turfgrass**

- 1) Do not apply PrimeraOne Prodiamine 65WDG Herbicide to areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.
- 2) Do not cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.
- 3) To avoid turfgrass injury, do not apply PrimeraOne Prodiamine 65WDG Herbicide to turf stressed by conditions such as drought, low fertility, or pest damage.
- 4) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- 5) Do not apply PrimeraOne Prodiamine 65WDG Herbicide to golf course putting greens.
- 6) If the depth of the creeping bentgrass root system becomes shallow and root tips contact PrimeraOne Prodiamine 65WDG Herbcide-treated soil, new root formation may be inhibited. Mowing height can affect the depth of a plant's root system. To avoid this, do not apply PrimeraOne Prodiamine 65WDG Herbicide to creeping bentgrass less than 0.5 inch in height.

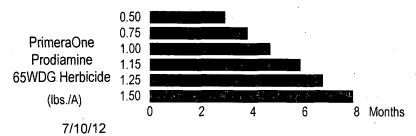
#### **Application Timing and Rate-Turfgrass**

PrimeraOne Prodiamine 65WDG Herbicide may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications should be made before target weeds germinate. PrimeraOne Prodiamine 65WDG Herbicide will not control weeds that have already emerged.

The amount of PrimeraOne Prodiamine 65WDG Herbicide to apply depends upon:

- 1. the length of residual weed control desired (the higher the application rate, the longer the control),
- 2. the turf species, and
- 3. the maximum amount which can be applied to the turf species per calendar year.

#### Length of Crabgrass Control\*



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\*Length of control varies by region. This table is an average for planning purposes.

#### **Annual Use Rates-Turfgrass**

PrimeraOne Prodiamine 65WDG Herbicide can be applied to the turfgrass species listed in the following table. Do not apply more than the highest rate listed for each species in a calendar year.

Table 1. Maximum Application Rate of PrimeraOne Prodiamine 65WDG Herbicide Per Calendar Year by Turfgrass Species 11

Turf Species	lbs. Product/Acre	oz. Product/1,000 sq. ft.
Bermuda grass <sup>2/</sup> Bahiagrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass <sup>3/</sup> Tall Fescue (including turf-type) Zoysiagrass	1.0-2.30 <sup>1/</sup>	0.36-0.83
Buffalograss Kentucky Bluegrass Perennial Ryegrass	0.5-1.50 <sup>1</sup>	0.18555
Fine Fescue	0.5-1.15 <sup>1/</sup>	0.185-0.42
Creeping Bentgrass (0.5 inches or more in height) 4/	0.5-1.00 <sup>1/</sup>	0.185-0.37

<sup>&</sup>lt;sup>1</sup>PrimeraOne Prodiamine 65WDG Herbicide may be applied more than once a year as long as the total amount applied is not greater than the maximum application rate for each turf species. All applications must be made before weed seeds germinate.

#### When to Apply PrimeraOne Prodiamine 65WDG Herbicide After Overseeding Turf

Injury to desirable seedlings is likely if PrimeraOne Prodiamine 65WDG Herbicide is applied before the secondary roots of seedlings are in the second inch of soil (not thatch plus soil). To reduce the potential to injure overseeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying PrimeraOne Prodiamne 65WDG Herbicide.

#### When to Overseed After Application-All States\*

PrimeraOne Prodiamine 65WDG Herbicide will inhibit the development of turfgrass species overseeded too soon after application.

Follow rates and intervals in the table below for best overseeding/reseeding results.

\*Note: In AZ, CA, NV, and TX, the overseeding interval can be shorter in established bermudagrass that has been overseeded with perennial ryegrass. See the next section "Poa Annua Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only)".

Amount of PrimeraOne Prodiamine 65WDG Herbicide	Interva	l (Months) Before Overs	seeding
Lbs. Product/A	North	Transition	South
. 75	. 4	4	4
1.00	5	4	4
1.15	6	5	5
1.25	-	6	6

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<sup>&</sup>lt;sup>2</sup>May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 0.80 lb./A (0.30 oz./1,000 sq. ft.). Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded.

<sup>&</sup>lt;sup>3</sup>Use an initial rate of 0.75-1.5 lbs./A per application.

<sup>&</sup>lt;sup>4</sup>To avoid grass injury, do not apply PrimeraOne Prodiamine 65WDG Herbicide to creeping bentgrass mowed at less than 0.5 inch in height.

1.50	<u>-</u>	7	7
1.75	-	- ,	9
2.00	-	<del>-</del>	10
2.30	-		12

# Poa annua control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV, and TX only)

Use on golf courses (excluding golf course putting greens, lawns, and sod nurseries when overseeding with perennial ryegrass (minimum seeding rate of 350 lbs./A).

How Much and When to Apply

Amount to Apply	When to Apply	<b>Expected Control</b>	Use Precautions
0.58-1.0 lb./A	First application: 6 to 8 weeks before ryegrass overseeding  Second application: 4 to 8 weeks after overseeding or when perennial ryegrass roots are in the second inch of soil	1 application for 70% or greater control of <i>Poa annua</i> Second application may enhance control	<ol> <li>Some seedling mortality and temporary reduction in root growth of new seedlings may occur.</li> <li>To reduce the potential for seedling mortality, maintain a moist seedbed with light, frequent irrigation.</li> <li>make no more than 2 applications per year for this use, and do not exceed a total of 1.3 lbs./A per year.</li> <li>Do not make a second application if any injury to the ryegrass is observed after the first application.</li> <li>Do not make a second application unless the product was first applied before overseeding.</li> </ol>

# 12/19

## ORNAMENTALS (CONTAINER, FIELD, AND LANDSCAPE GROWN, INCLUDING CHRISMAS TREE FARMS), RIGHTS-OF-WAY, GROUNDS OF UTILITIES, UNGRAZED FENCE ROWS

PrimeraOne Prodiamine 65WDG Herbicide may be applied to soil surfaces for preemergence control of many grass and broadleaf weeds:

- Around ornamental shrubs, trees, established perennial vegetation and wildflower plantings;
- On or surrounding managed rights-of-way for transportation systems including roadways, roadsides, railways, and equipment yards;
- On grounds of utilities such as power substations, tank farms, pumping stations, parking and storage areas;
- On ungrazed fence rows.

## Application Timing and Information PrimeraOne Prodiamine 65WDG Herbicide:

- 1. Will not control emerged weeds.
- 2. May be applied to newly-transplanted and established ornamentals as broadcast or over-the-top-spray.
- 3. Is most effective when applied to soil free of clods, weeds, and debris such as leaves and mulch.
- 4. Is most effective when the product is activated in the soil before weed seeds germinate and within 14 days after application.
- 5. Is activated when the treated area receives at least 0.5 inch of irrigation or rainfall, or shallow (1 to 2 inches) mechanical incorporation.

#### **Use Precautions**

#### To reduce injury potential:

- a. In the spring when buds are rapidly growing and expanding, over-the-top application of PrimeraOne Prodiamine 65WDG Herbicide may temporarily injure new growth of desirable plants. To reduce the possibility of injury at this time, wait to apply PrimeraOne Prodiamine 65WDG Herbicide over-the-top of newly emerged vegetation until it has hardened off, unless your experience indicates that the ornamental plant will not be injured by the other-the-top application.
- b. After application, immediately irrigate the treated area to wash PrimeraOne Prodiamine 65WDG Herbicide from plant surfaces onto soil (watering plants before application may improve the washing process).

Ornamentals, Christmas Tree Farms - Application Sites and Instructions

	se i aims – Application Sites and instructions		
Site	Application Instructions		
Newly-Transplanted container or Field Nursery Stock	<ol> <li>Delay application until soil has settled around transplants.</li> <li>Water transplants thoroughly before application.</li> <li>Apply after cuttings from roots and are established.</li> <li>To avoid inhibition of the tissue union, apply before budding/grafting or after buds/grafts have taken.</li> </ol>		
Established Container, Field Nursery Stock, or Landscape Plants	Apply at any time as a broadcast, over-the-top, or directed spray.		
Landscape (or Ornamental) Plantings	<ol> <li>Apply as a broadcast, over-the-top, or as a directed spray.</li> <li>Delay application to newly-transplanted ornamentals until soil has settled around transplants.</li> </ol>		
Bare Ground Application for Container Placement	<ol> <li>Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed.</li> <li>After PrimeraOne Prodiamine 65WDG Herbicide is applied, perform shallow cultivation or hand weeding only, or avoid disturbing the herbicide barrier.</li> </ol>		
In Shade Houses and Uncovered Polyhouses	After PrimeraOne Prodiamine 65WDG Herbicide is applied, uncovered polyhouses must remain open for at least 7 days and ornamentals must receive 2 irrigations totaling at least ½ inch of water.		
Ornamental Bulbs and Perennial Wildflower Plantings	<ol> <li>PrimeraOne Prodiamine 65WDG Herbicide may be applied to bulbs or perennial wildflower species listed in the section Tolerant Ornamental Species.</li> <li>Apply before or after bulbs emerge but before bulbs bloom and weeds emerge. In wildflowers, a postemergence herbicide labeled for wildflowers may be needed to control weeds that have already emerged.</li> </ol>		

How Much and When to Apply

Amount to Apply (Broadcast)*	When to Apply	Comments/Instructions
1.0-2.3 lbs./A or 0.37-0.83 oz./1,000 sq. ft.	In fall or spring before weeds germinate or after weeds are removed.	<ol> <li>Use the higher rate for longer control.</li> <li>PrimeraOne Prodiamine 65WDG         Herbicide may be applied more than once per year as long as the total amount of product applied does not exceed 2.3 lbs./A per year.     </li> </ol>

\*Note: For band application calculate amount per acre:

Band width in inches
Row width in inches

Broadcast rate = amount to apply per acre of field

Equivalent Measurements for PrimeraOne Prodiamine 65WDG Herbicide

Lbs./A	Oz./1,000 sq. ft.	Approximate Equivalent- Tablespoons/1,000 sq. ft.
1.0	0.37	1 .
1.5	0.55	1.5
2.0	0.74	2
2.3	0.83	, 2.25

#### **Tank Mixtures For Use On Ornamentals**

PrimeraOne Prodiamine 65WDG Herbicide may be tank mixed with other registered herbicides listed on this label to provide a broader spectrum of weed control or to control emerged weeds. Tank mixes with PrimeraOne Prodiamine 65WDG Herbicide are for use only in states where the tank mix partner(s), application site, and intended use pattern are registered. Follow the label(s) of the tank mix partner(s) for application rates, timing, weeds controlled, tolerant ornamentals, and specific use precautions and/or restrictions. Before mixing pesticides in the spray tank, test compatibility by mixing the products in a small container first. See the **Compatibility Test** section of this label.

Tank Mix Partners for PrimeraOne Prodiamine 65WDG Herbicide on Ornamentals

Product	Precautions/Instructions
Goal <sup>®</sup> (use on conifers only)	Mix with PrimeraOne Prodiamine 65WDG Herbicide for postemergence control of certain broadleaf weeds including malva and filaree.
Gallery <sup>®</sup> , Sim-Trol <sup>®</sup> , Pennant <sup>®</sup>	See product labels for weed spectrum and tolerant ornamentals.
Roundup <sup>®</sup> or other glyphosate-based products <sup>1</sup> , Finale <sup>®</sup>	These nonselective tank mix herbicides control most emerged annual broadleaves and grasses.  Take extreme care to prevent tank mixtures with these products from contacting the foliage and stems of turfgrass, trees, shrubs, or other desirable vegetation because desirable vegetation may be severely injured or killed. Apply these tank mixtures as a directed spray and use a shield to prevent spray from contacting foliage of desirable plants.  Following instructions on the tank mix partner's label, delay irrigation of the treated area to allow time for the herbicide to be absorbed by weed foliage.

<sup>&</sup>lt;sup>1</sup>Roundup is one brand of a nonselective herbicide containing glyphosate. Other glyphosate products may also be used.

#### **Tolerant Ornamental Species**

PrimeraOne Prodiamine 65WDG Herbicide will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 2 are tolerant to PrimeraOne Prodiamine 65WDG Herbicide. PrimeraOne Prodiamine 65WDG Herbicide may be applied over-the-top of the listed species.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to PrimeraOne Prodiamine 65WDG Herbicide.

#### **Table 2. Tolerant Ornamental Species**

Scientific name

Abelia grandiflora

Abies spp.

Acer palmatum

Acer platanoides

Achillea spp.

Actinidia chinensis

Agapanthus orientalis

Akebia quintata

Allium cernuum

Anemone hybrida

Aquilegia spp.

Arctostaphylos densiflora

Arctotheca calendula

Aucuba japonica

Artemisia spp.

Aster spp.

Athyrium filix-femina

Begonia spp.

Berberis gladwynesis

Berberis julianae

Berberis mentorensis

Berberis thunbergii

Berberis verriculosa

Bergenia cordifolia

Boltonia asteroides

Bougainvillea spp.

Buddleia davidii

Buxus microphylla

Callistemon citrinus

Callistemon viminalis

Calluna vulgaris

Campanula carpatica

Campsis X tagliabuana

Carpobrotus edulis

Cassia artemisoides

Ceanothus rigidus

Ceratostigma plumbaginoides

Chamaecyparis pisifera

Chrysanthemum nipponicum

Cleyera japonica

Citrus spp.\*

Coreopsis spp.

Cornus stolonifera

Cortaderia selloana

Cotoneaster apiculatus

Cotoneaster buxifolius

Cotoneaster dammeri

Cotoneaster microphyllus

Crataegus spp.

Cupressus sempervirens

Crocosmia spp.

Delosperma spp.

Delphinium spp.

Common name

Abelia

Fir species (Balsam, Fraser, Noble, etc.)

Japanese maple

Norway maple

Yarrow

Kiwi\*

Lily of the Nile; African lily

Five-Leaf or Chocolate Vine

Lady's Leek; Nodding Onion

Japanese Anemone

Columbine

Vine hill manzanita

Cape weed

Japanese Aucuba

Wormwood: Silver Mound: Castle

Aster

Lady Fern

Fibrous Begonia

Barberry

Wintergreen barberry

Mentor barberry

Japanese barberry

Warty barberry

Snowbank

Bougainvillea

Butterfly-bush

Japanese boxwood

Crimson bottlebrush

Weeping bottlebrush

Scotch heather

Tussock beliflower

Trumpet creeper, Trumpet flower

Hottentot fig; Ice plant

Feathery Cassia

Wild lilac

False cypress

Ornamental orange, lemon, lime, etc.\*

Coreopsis (Calliopsis): Early Sunrise, Moonbeam

American dogwood

Pampas grass

Cranberry Cotoneaster

Cotoneaster

Bearberry Coteneaster

Rockspray Cotoneaster

Hawthorn

Italian cypress

Lucifer

Ice plant

Larkspur

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Dianthus deltoidia

Dianthus gratianopolitanus

Dodonea viscosa
Echinacea purpurea
Elaeagnus pungens
Euonymus fortunei
Euonymus japonica
Euonymus kiautschovica

Fatsia japonica Forsythia intermedia Forsythia suspense Forsythia viridissima Gaillardia spp.

Gardenia jasminoides

Gaura spp.

Gentiana dahurica Geranium cinereum Gladiolus spp. \*\* Gypsophila repens Hedera helix Helianthemum spp. Hemerocallis spp. Heucherella spp.

Hibiscus rosa-sinensis\*\*

Hibiscus spp. Hosta plantaginea Hosta sieboldiana

Houttuynia cordata var. variegata

Hydrangea macrophylla

Ilex cornuta\*\*
Ilex crenata
Ilex opaca
Ilex pernyi
Ilex vomitoria
Inula ensifolia
Iris spp.

Jasminium nudiflorum

Juglans spp.\*
Juniperus chinensis
Juniperus conferta
Juniperus davurica
Juniperus horizontalis
Justicia brandegeana
Lagerstroemia indica

Lagerstroemia indica and hybrids

Lantana montevidensis

Lavender spp.

Leontopodium alpinum Ligustrum amurense Ligustrum japonicum Ligustrum lucidum Ligustrum sinense Lilium spp.

Lilium spp.
Liriope muscari
Liriope spicata
Lobelia cardinalis
Lonicera japonica
Lonicera tatarica
Loropetalum chinense

Dianthus; Maiden pinks

Cheddar pink Hop bush Coneflower Silverberry Wintercreeper

Japanese spindle tree, Evergreen Euonymus

Spreading Euonymus Japanese aralia Border Forsythia Weeping Forsythia Greenstem Forsythia Gaillardia; Blanket flower Gardenia; Cape-jasmine

Gaura Gentian Cranesbill

Gladiolus species\*\*
Baby's breath
English ivy
Sunrose
Daylily
Coral bells

Chinese Hibiscus\*\*
Mallow; Rose of Sharon\*\*

Hosta; Plantain lily

Hosta

Bigleaf Hydrangea Chinese holly\*\* Japanese holly American holly

Holly

Yaupon holly

Iris

Winter jasmine Walnut\* Chinese juniper Shore juniper

Creeping juniper Shrimp plant Crape myrtle Crape myrtle Weeping Lantana Lavender; Munstead

Edelweiss Amur privet Japanese privet Glossy privet; Wax-leaf

Chinese privet

Lily Liriope

Liriope, creeping

Cardinal flower; Indian pink Japanese honeysuckle Tatarian honeysuckle

Loropetalum

Lythrum spp. Magnolia spp.\*\* Maleophora luteola

Malus spp.\*

Miscanthus sinesis\*\*
Nandina domestica
Narcissus spp. \*\*
Nerium spp.

Oenothera missouriensis

Olea europaea\*

Ophiopogon japonicus\*\*
Osmanthus heterophyllus
Osteospermum fruticosum

Oxydendron luteum
Paeonia suffruticosa
Pennisetum setaceum\*\*
Perovskia atriplicifolia
Persea americana\*
Photinia fraseri

Physostegia virginiana

Picea spp. \*\*
Pieris japonica
Pinus brutia
Pinus canariensis
Pinus elliottii
Pinus halepensis
Pinus nigra
Pinus palustris
Pinus radiata
Pinus strobus
Pinus sylvestris

Pinus taeda Pinus thunbergiana Pinus virginiana Pistacia spp.\*

Pittosporum rhombifolium Pittosporum tobira

Podocarpus macrophyllus Prunus laurocerasus

Prunus spp.\*

Pseudotsuga menziesii\*\*
Pyracantha coccinea
Pyracantha fortuneana
Pyracantha koidzumii

Pyrus spp.
Quercus rubra
Quercus shumardii
Raphiolepsis indica
Raphiolepsis umbellata
Rhododendron spp.
Rosa banksiae

Rudbeckia spp. Rumohra adiantiformis

Santolina virens Saxifraga spp. Scabiosa spp. Sedum spp. Spiraea bumalda

Syzygium paniculatum

Loosestrife Magnolia Ice plant Crabapple\*

Yaku Jima\*\*, Silberfeder\*\*

Heavenly bamboo Narcissus, Daffodil

Oleander

Evening primrose

Olive\*

Mondo grass\*\*

Osmanthus; False holly Trailing African daisy

Sourwood
Tree peony
Fountain grass\*\*

Avocado\* Photinia; Redtip False dragonhead

Spruces (Colorado Blue, Norway, etc.)

Japanese andromeda; Lily-of-the-valley shrub

Calabrian pine
Canary island pine
Slash pine
Aleppo pine
Austrian black pine

Austrian black pine
Longleaf pine
Monterey pine
Eastern white pine
Scotch pine

Loblolly pine

Japanese black pine

Virginia pine Pistachio\*

Queensland Pittosporum Japanese Pittosporum

Japanese yew English laurel

Almond, Apricot, Nectarine, Peach, Plum, and Prune\*

Douglas fir\*\*
Firethorn, scarlet
Firethorn

Firethorn

Pear spp., including 'Bradford'

Red oak Shumard oak Indian hawthorne Yedda hawthorne

Rhododendrons, Azaleas

Lady Banks rose Black-eyed Susan Leatherleaf Fern

Saxifrage; Purple dome

Pincushion flower

Stonecrop Spirea

Australian brushcherry; Japanese boxcherry

#### PrimeraOne Prodiamine 65WDG He. vicide

Taxus cuspidata Taxus spp. Teucrium spp.

Thalictrum dipterocarpum

Thuja occidentalis`

Trachelospermum asiatum

Tsuga canadensis Tulipa spp.

Tulipa spp. Veronica spp. Viburnum japonicum

Viburnum odoratissimum Viburnum plicatum Viburnum rigidum Viburnum japonicum Viburnum suspensum

Viburnum tinus Viburnum trilobium Viburnum wrightii Vinca major Vinca minor Vitis spp.\*

Weigela florida Yucca aloifolia Yucca filamentosa Japanese vew

Yew

Germander Meadow rue

American arborvitae

Star jasmine Canada hemlock

Tulip

Veronica, Speedwell
Japanese viburnum
Sweet viburnum
Japanese snowball
Canary island viburnum
Japanese viburnum
Arrowood viburnum

Cranberry bush Leatherleaf viburnum Vinca

Vinca Periwinkle Grape\*

Laurustinus

Old fashioned Weigela Spanish bayonet Yucca: Adam's needle

\* Do not use on food producing trees, vines, or plants.

\*\* Not for use on container grown plants.

#### **NEW PLANTINGS, REPLANTING, AND ROTATIONAL PLANTINGS**

Nursery, landscape, or non-cropland areas treated with PrimeraOne Prodiamine 65WDG Herbicide should be rotated only to ornamental species listed on this label for 1 year following application unless the following test has shown species safety:

Before planting a species not listed on this label, it is recommended that several test strips of an indicator plant such as wheat, sorghum, or corn be sown into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control.

#### CHEMIGATION INSTRUCTIONS -- OVERHEAD SPRINKLER IRRIGATION APPLICATION

- Apply this product only through an overhead sprinkler irrigation system. Do not apply this product through any
  other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- To avoid injury to foliage, make sure foliage is sufficiently wet before application or adequate irrigation is applied after application.
- If sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result.
- If sprinkler distribution patterns overlap excessively, injury to leatherleaf ferns and other ornamentals may result.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to public water systems unless pesticide label-prescribed safety devices for public water systems are in place.
- If necessary, a person knowledgeable of the chemigation system and responsible for its operation, or someone under the supervision of the responsible person, shall shut the system down arid make necessary adjustments.

#### **Operation Instructions**

- 1. The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water, pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Prepare a mixture with a minimum of 20 parts of water to 1 part PrimeraOne Prodiamine 65WDG Herbicide and inject this herbicide suspension mixture into the overhead system. injecting a larger, volume of a more dilute mixture per hour will usually
- provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
- 9. Before injecting PrimeraOne Prodiamine 65WDG Herbicide in to the system, run the irrigation system long enough to wet the foliage, then
- inject PrimeraOne Prodiamine 65WDG Herbicide suspension mixture in the pesticide supply tank (see number 8 above) in 1 inch of
- irrigation water. After the application is complete, continue the irrigation until all residues are washed off the foliage.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE**: Store in original container away from feed or foodstuffs and separated from other pesticides.

**PESTICIDE DISPOSAL**: Wastes resulting from the use of this product may be disposed of at an approved wasted disposal facility.

#### **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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call CHEMTREC (phone: 1-800-424-9300) day or night.

#### WARRANTY AND LIMITATION OF DAMAGES

CONDITIONS OF SALE: Sipcam Agro USA, Inc. 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 accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Sipcam Agro USA, Inc.. SIPCAM AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SIPCAM AGRO USA, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SIPCAM AGRO USA, INC.'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. SIPCAM AGRO USA, INC. DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

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