



# PrimerOne®

## PrimerOne Prodiamine 65WDG Herbicide

### For preemergence control of 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).

### ACTIVE INGREDIENT:

Prodiamine (CAS No. 29091-21-2) ..... 65.0%

### OTHER INGREDIENTS:

..... 35.0%

**TOTAL:** ..... 100.0%

### FIRST AID

**IF SWALLOWED** • Call a poison control center or doctor immediately for treatment advice. • Have affected person sip a glass of water if able to swallow. • Do not induce vomiting unless told by a poison control center or doctor. • 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 a poison control center or doctor for treatment advice.

**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 INHALED** • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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.

**Emergency phone numbers** (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

EPA Est. No. 37429-GA-01 (Lot No. begins with BT)

EPA Est. No. 60063-GA-001 (Lot No. begins with VL)

## 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.)

9501960-000-20120710

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

MANUFACTURED FOR: Sipcam Agro USA, Inc.  
2520 Meridian Parkway, Suite 525, Durham, NC 27713

**NET WEIGHT: 5 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 runoff from 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 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 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 HERBICIDE WORKS**

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.
7. 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)**

Component Formulations	Rate Per		Level Teaspoons
	Acre	1,000 sq. ft.	
PrimeraOne Prodiamine 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.
2. 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 adjuvants approved for application to turf and ornamentals. When an adjuvant is to be used with this product, Sipcarn 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 Herbicide in 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.

### Weeds Controlled

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

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

<sup>1/</sup>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)**.

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

<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>4/</sup>Suppression only.

<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.

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.

## ESTABLISHED TURF

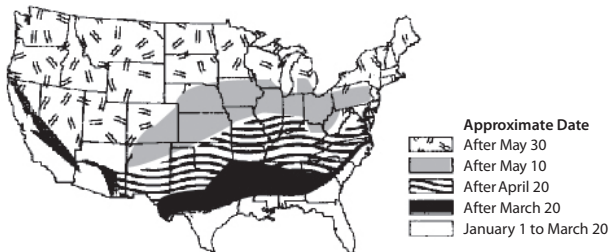
PrimeraOne Prodiamine 65WDG Herbicide is a preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turfgrasses including:

- 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 Herbicide-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

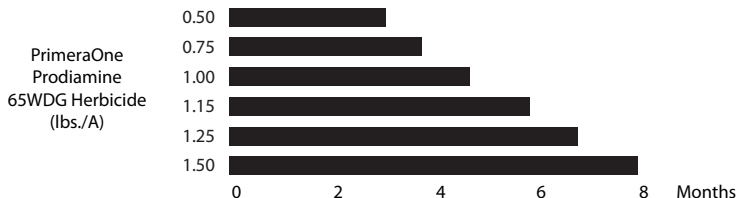
PrimeraOne Prodiamine 65WDG Herbicide may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications should be made before target weeds germinate.

**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\*



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

### Annual Use Rates-Turfgrass

PrimaOne 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 PrimaOne Prodiamine 65WDG Herbicide Per Calendar Year by Turfgrass Species <sup>1/</sup>**

Turf Species	lbs. Product/Acre	oz. Product/1,000 sq. ft.
Bermuda grass <sup>2/</sup> Bahia grass 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>	0.185-0.55
Fine Fescue	0.5-1.15 <sup>1/</sup>	0.185-0.42
Creeping Bentgrass (0.5 inches or more in height) <sup>4/</sup>	0.5-1.00 <sup>1/</sup>	0.185-0.37

<sup>1/</sup>PrimaOne 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.

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

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

### 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 Prodiamine 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	Interval (Months) Before Overseeding		
	North	Transition	South
Lbs. Product/A			
.75	4	4	4
1.00	5	4	4
1.15	6	5	5
1.25	-	6	6
1.50	-	7	7
1.75	-	-	9
2.00	-	-	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	Expected Control	Use Precautions
0.58-1.0 lb./A	<b>First application:</b> 6 to 8 weeks <b>before</b> ryegrass overseeding  <b>Second applica- tion:</b> 4 to 8 weeks <b>after</b> overseeding or when peren- nial 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 style="list-style-type: none"><li>1. Some seedling mortality and temporary re- duction in root growth of new seedlings may occur.</li><li>2. To reduce the potential for seedling mortal- ity, maintain a moist seedbed with light, fre- quent irrigation.</li><li>3. 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>4. Do not make a second application if any in- jury to the ryegrass is observed after the first application.</li><li>5. Do not make a second application unless the product was first applied before over- seeding.</li></ol>

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

PrimeraOne Proflam 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 Proflam 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 Proflam 65WDG Herbicide may temporarily injure new growth of desirable plants. To reduce the possibility of injury at this time, wait to apply PrimeraOne Proflam 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 Proflam 65WDG Herbicide from plant surfaces onto soil (watering plants before application may improve the washing process).

## Ornamentals, Christmas Tree Farms – Application Sites and Instructions

Site	Application Instructions
Newly-Transplanted container or Field Nursery Stock	<ol style="list-style-type: none"> <li>1. Delay application until soil has settled around transplants.</li> <li>2. Water transplants thoroughly before application.</li> <li>3. Apply after cuttings from roots and are established.</li> <li>4. 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 style="list-style-type: none"> <li>1. Apply as a broadcast, over-the-top, or as a directed spray.</li> <li>2. Delay application to newly-transplanted ornamentals until soil has settled around transplants.</li> </ol>
Bare Ground Application for Container Placement	<ol style="list-style-type: none"> <li>1. Apply to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed.</li> <li>2. 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 style="list-style-type: none"> <li>1. PrimeraOne Prodiamine 65WDG Herbicide may be applied to bulbs or perennial wildflower species listed in the section <b>Tolerant Ornamental Species</b>.</li> <li>2. 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 style="list-style-type: none"> <li>1. Use the higher rate for longer control.</li> <li>2. 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:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast rate} = \text{amount to apply per acre of field}$$

## 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® (use on conifers only)	Mix with PrimeraOne Prodiamine 65WDG Herbicide for postemergence control of certain broadleaf weeds including malva and filaree.
Gallery®, Sim-Trol®, Pennant®	See product labels for weed spectrum and tolerant ornamentals.
Roundup® or other glyphosate-based products <sup>1</sup> , Finale®	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>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 verruculosa*  
*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*

**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 bellflower  
 Trumpet creeper, Trumpet flower  
 Hottentot fig; Ice plant  
 Feathery Cassia  
 Wild lilac  
  
 False cypress  
  
 Cleyera  
 Ornamental orange, lemon, lime, etc.\*  
 Coreopsis (Calliopsis): Early Sunrise, Moonbeam  
 American dogwood  
 Pampas grass  
 Cranberry Cotoneaster  
 Cotoneaster  
 Bearberry Cotoneaster

*(continued)*

**Scientific name**

*Cotoneaster microphyllus*  
*Crataegus* spp.  
*Cupressus sempervirens*  
*Crococsmia* spp.  
*Delosperma* spp.  
*Delphinium* spp.  
*Dianthus deltoidea*  
*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*

**Common name**

Rockspray Cotoneaster  
 Hawthorn  
 Italian cypress  
 Lucifer  
 Ice plant  
 Larkspur  
 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

(continued)

**Scientific name**

*Justicia brandegeana*  
*Lagerstroemia indica*  
*Lagerstroemia indica* and hybrids  
*Lantana montevidensis*  
 Lavender spp.  
*Leontopodium alpinum*  
*Ligustrum amurense*  
*Ligustrum japonicum*  
*Ligustrum lucidum*  
*Ligustrum sinense*  
*Lilium* spp.  
*Liriope muscari*  
*Liriope spicata*  
*Lobelia cardinalis*  
*Lonicera japonica*  
*Lonicera tatarica*  
*Loropetalum chinense*  
*Lythrum* spp.  
*Magnolia* spp.\*\*  
*Maleophora luteola*  
*Malus* spp.\*  
*Miscanthus sinensis*\*\*  
*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 elliotii*  
*Pinus halepensis*  
*Pinus nigra*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus strobus*  
*Pinus sylvestris*

**Common name**

Shrimp plant  
 Grape myrtle  
 Grape 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  
 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  
 Longleaf pine  
 Monterey pine  
 Eastern white pine  
 Scotch pine

(continued)

**Scientific name**

*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*  
*Raphiolepis indica*  
*Raphiolepis umbellata*  
*Rhododendron* spp.  
*Rosa banksiae*  
*Rudbeckia* spp.  
*Rumohra adiantiformis*  
*Santolina virens*  
*Saxifraga* spp.  
*Scabiosa* spp.  
*Sedum* spp.  
*Spiraea bumalda*  
*Syzygium paniculatum*  
*Taxus cuspidata*  
*Taxus* spp.  
*Teucrium* spp.  
*Thalictrum dipterocarpum*  
*Thuja occidentalis*  
*Trachelospermum asiaticum*  
*Tsuga canadensis*  
*Tulipa* spp.  
*Veronica* spp.  
*Viburnum japonicum*  
*Viburnum odoratissimum*  
*Viburnum plicatum*  
*Viburnum rigidum*  
*Viburnum japonicum*  
*Viburnum suspensum*  
*Viburnum tinus*  
*Viburnum trilobium*  
*Viburnum wrightii*  
*Vinca major*

**Common name**

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  
 Japanese yew  
 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  
 Laurustinus  
 Cranberry bush  
 Leatherleaf viburnum  
 Vinca

(continued)

**Scientific name**

*Vinca minor*  
*Vitis* spp.\*  
*Weigela florida*  
*Yucca aloifolia*  
*Yucca filamentosa*

**Common name**

Periwinkle  
Grape\*  
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 and 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 large 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 waste 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:** Sipcama 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 Sipcama Agro USA, Inc. **SIPCAMA AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SIPCAMA AGRO USA, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SIPCAMA 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. SIPCAMA 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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