



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 29, 2021

Patricia McFadden  
Registration Manager  
Sipcam Agro USA, Inc.  
2525 Meridian Parkway  
Durham, NC 27713

Subject: Registration Review Label Mitigation for Prodiamine  
Product Name: TURF FERTILIZER WITH PRODIAMINE 0.42%  
EPA Registration Number: 60063-43  
Application Dates: 06/21/2019  
Decision Numbers: 570026

Dear Ms. McFadden:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Prodiamine Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

Page 2 of 2  
EPA Reg. No. 60063-43  
Decision No. 570026

If you have any questions about this letter, please contact DeMariah Koger by phone at 703-347-0425, or via email at [koger.demariah@epa.gov](mailto:koger.demariah@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

PRODIAMINE	GROUP	<b>3</b>	HERBICIDE
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## Turf Fertilizer with Prodiamine 0.42%

For selective preemergence control of grass and broadleaf weeds in:

- [Established Turf Grasses (excluding golf course putting greens) and lawns]
- [Landscape Ornamentals (including established perennials and wildflower plantings)]

**Active Ingredient:**

Prodiamine, [N<sup>3</sup>,N<sup>3</sup>-Di-*n*-propyl-2,4-dinitro-6-(trifluoromethyl)-*m*-phenylenediamine] ..... 0.42%

**Other Ingredients:** ..... 99.58%

**Total:** ..... 100.00%

Contains 0.040 lbs. prodiamine per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

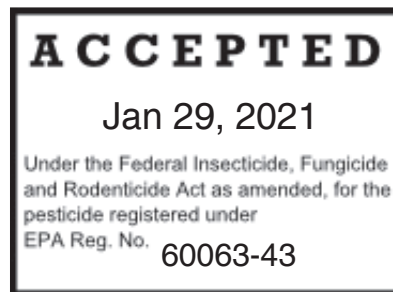
<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or go to treatment.	
Emergency Phone Numbers	(800) 424-9300 CHEMTREC (transportation and spills) (800) 222-1222 Poison Control Center

See the [following section,] **Precautionary Statements** [, and] **Hazards to Humans and Domestic Animals** for additional information.

EPA Reg. No. 60063-43  
 EPA Est. No. \_\_\_\_\_  
 [Lot [number] [no.] [#] begins with xx]

Net Contents: \_\_\_\_\_ [pounds] [lbs.] [( \_\_\_\_ kg)]  
 [label date/lot code]

**SIPCAM AGRO USA, INC.**  
 2525 Meridian Parkway, Suite 350  
 Durham, NC 27713



## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### **ENVIRONMENTAL HAZARDS**

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

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.

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

## **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.

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- [Established turf grasses (excluding golf course putting greens) and lawns]
- [Landscape ornamentals]
- [Established perennials and wildflower plantings]

This product controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when it is activated by at least 1/2 inch of rainfall, irrigation, or shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Not for use on ornamental plants being grown for; (1) Sale or other commercial use, (2) for commercial seed production, or (3) for research purposes.

For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

**DO NOT** graze or feed livestock forage cut from areas treated with this product.

**DO NOT** apply aerially.

**DO NOT** apply to golf course putting greens.

**DO NOT** apply this product through any type of irrigation system.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

### **RESISTANCE MANAGEMENT**

For resistance management, this product is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

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

- Rotate the use of this product or other Group 3 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage ( or other mechanical control methods), cultural ( e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.

### **INTEGRATED WEED PEST MANAGEMENT**

Integrate this product into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **Controlling Droplet Size – Ground Boom**

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **BOOMLESS GROUND APPLICATIONS**

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### **HANDHELD TECHNOLOGY APPLICATIONS**

Take precautions to minimize spray drift.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift

## WEEDS CONTROLLED

When used in accordance with this label this product will provide control of the following weeds:

Barnyardgrass	Kochia
Bluegrass, Annual ( <i>Poa annua</i> )	Lambsquarter, common
Carpetweed	Lovegrass
Chickweed, common	Panicum (Texas, Fall, Browntop)
Chickweed, mouse ear (from seed)	Pigweed
Crabgrass (large, smooth)	Purslane, common
Crowfootgrass	Pusley, Florida
Cupgrass, Woolly	Rescuegrass <sup>3</sup>
Foxtails, Annual	Shepherd's Purse <sup>2</sup>
Goosegrass <sup>1</sup>	Signalgrass, Broadleaf
Henbit	Speedwell, Persian
Itchgrass	Sprangletop
Johnsongrass (from seed)	Spurge, Prostrate
Junglerice	Witchgrass
Knotweed	Woodsorrel, Yellow (from seed)

<sup>1</sup>In many areas a single application of 0.65 lb. to 1.5 lb. active ingredient per acre ([equal to 155 lbs. to 357 lbs./A of this product] [or] [equal to 3.6 to 8.2 lbs./1000 sq.ft. of this product]) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 0.65 lb. to 1.0 lb. a.i. per acre ([equal to 155 lbs. to 238 lbs./A of this product] [or] [equal to 3.6 to 5.5 lbs./1000 sq.ft. of this product]) followed after 60 to 90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates** section. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates** section [above] [below].

<sup>2</sup>Applications for this weed should be made in late summer, fall, or winter prior to germination.

<sup>3</sup>Suppression only. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for each turf species. All applications must be made prior to germination of the weed seeds.

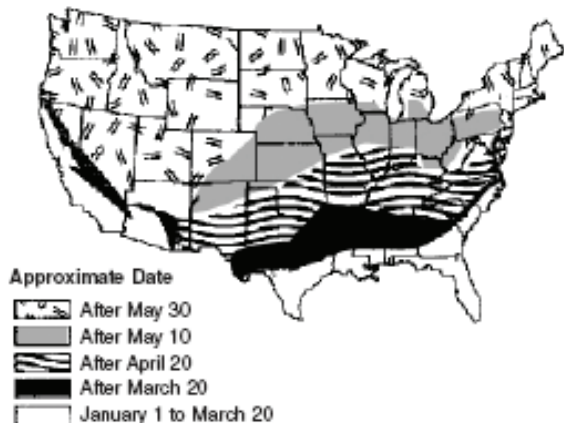
## APPLICATION DIRECTIONS

Apply uniformly with suitable, calibrated application equipment.

## ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the **Maximum Annual Rates** section of this label. Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inches of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

## CRABGRASS SEED GERMINATION DATES



### USE RESTRICTION:

The following restrictions apply to the use of this product in turf grasses and lawns:

- DO NOT cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year.
- DO NOT allow people or pets to enter the treated area until the spray has dried.

### USE PRECAUTIONS:

The following precautions apply to the use of this product in turf grasses and lawns:

- Application of this product may thin emerged annual bluegrass and newly overseeded grasses.
- Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.
- Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury.
- Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

### RATES OF APPLICATION

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds. Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.



**MAXIMUM ANNUAL RATES**

This product may be used on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

<b>MAXIMUM ANNUAL RATES</b>			
<b>Maximum Application Rate/Calendar Year of turf fertilizer by turf grass species<sup>(1)</sup></b>			
<b>Turf Species:</b>	<b>Lbs. Product/A</b>	<b>Lbs. Product /1000 sq.ft.</b>	<b>Lbs. a.i./A</b>
Creeping Bentgrass	155	3.6	0.65
Creeping Red Fescue	179	4.1	0.75
Buffalograss Kentucky Bluegrass Perennial Ryegrass	238	5.5	1.0
Bermudagrass <sup>(2)</sup> Bahigrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	357	8.2	1.5

[Note: when preparing label for commercial use, one or both of the Lbs.product/A or Lbs.product/100 sq.ft. column may be used in the table. The Lbs.a.i./A column must always be included on the commercial label.]

<sup>1</sup>These are the maximum rates per calendar year by species limitations.

<sup>2</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 0.5 lb. a.i./acre ([equal to 119 lbs./A of this product] [or] [equal to 2.7 lbs./1000 sq.ft. of this product]). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass, and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 1.5 lbs. a.i. per calendar year per acre ([equal to 357 lbs./A of this product] [or] [equal to 8.2 lbs./1000 sq. ft. of this product]).
- Use higher rates of this product to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates specified in the **Maximum Annual Rates** table.

**WHEN TO APPLY AFTER OVERSEEDING TURF**

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

**WHEN TO OVERSEED AFTER APPLICATION**

This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the following table below for best overseeding/reseeding results.

**Overseeding Rate and Treatment Interval Chart**

Lbs. Product /Acre	Lbs. Product /1000 sq.ft.	Lbs. a.i./A	Months Before Overseeding		
			North	Transition	South
119	2.7	0.50	4	4	4
155	3.6	0.65	5	4	4
179	4.1	0.75	6	5	5
190	4.4	0.80	-	6	6
238	5.5	1.00	-	7	7
271	6.2	1.14	-	-	9
310	7.1	1.30	-	-	10
357	8.2	1.50	-	-	12

**Guaranteed Fertilizer Analysis:**  
 Total Nitrogen (N).....%  
 Available Phosphate (P<sub>2</sub>O<sub>5</sub>).....%  
 Soluble Potash (K<sub>2</sub>O) .....%

Derived from: [Ureaformaldehyde, Urea, Sulfur-Coated Urea, Ammonium Phosphate, Muriate of Potash]

**LANDSCAPE ORNAMENTALS**

**Including Established Perennials and Wildflower Plantings**

This product may be applied for residual preemergence weed control in ornamentals.

**Use Rates and When to Apply**

Apply in fall and/or spring, 0.65 to 1.5 lbs. active ingredient per acre, which is equal to 3.6 to 8.2lbs. of this product per 1,000 sq.ft. of ornamental plantings; therefore 20 lbs of this product will treat 2,439 to 5,556 sq.ft. Use the higher rates of application for longer control periods. Sequential applications may be made as long as the total amount of product applied does not exceed the maximum annual application rate of 1.5 lbs. a.i. per acre.

**Established Landscape Ornamentals**

This product may be applied to established ornamentals as a broadcast, over the top, or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate it into the soil.

**Newly Transplanted Landscape Ornamentals**

This product may be applied to newly transplanted ornamentals as a broadcast, over the top, or directed application. Delay application to allow soil to settle around new transplants and water thoroughly before applying this product. Apply after cuttings form roots and become established. Apply before budding/grafting or after buds/grafts have taken to avoid any inhibition of the tissue union.

**Tolerant Ornamental Species**

This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this product. Best results will be obtained when it is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress (such as heat, drought or frost damage) some cultivars of listed plants may be sensitive to this product.

## TOLERANT ORNAMENTAL SPECIES

Scientific name	Common name (Tested varieties)
<i>Abies</i> spp.	Fir
<i>Abelia x grandiflora</i>	Abelia; Sherwood
<i>Acer palmatum</i>	Japanese maple
<i>Acer platanoides</i>	Norway maple
<i>Achillea</i> sp.	Yarrow (King Edward)
<i>Actinidia chinensis</i> *	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile; African Lily
<i>Akebia quintata</i>	Five-leaf or Chocolate vine
<i>Allium cernuum</i>	Lady's leek or Nodding onion
<i>Anemone hybrida</i>	Japanese anemone
<i>Aquilegia</i> spp.	Columbine (Red and gold)
<i>Arctostaphylos densiflora</i>	Vine Hill manzanita
<i>Arctotheca calendula</i>	Cape weed
<i>Artemisia</i> spp.	Wormwood (Silver mound; Castle)
<i>Aster</i> sp. or <i>Symphotrichum</i> sp.	Aster (Bonny blue, Purple dome)
<i>Aster X frikartii</i>	
<i>Athyrium felix-femina</i>	Lady fern
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Begonia</i> spp.	Fibrous bigonia (Hardy Grandis)
<i>Berberis gladwynensis</i>	Barberry
<i>Berberis julianae</i>	Wintergreen barberry
<i>Berberis mentorensis</i>	Mentor barberry
<i>Berberis thunbergii</i>	Japanese barberry
<i>Berberis verruculosa</i>	Warty barberry
<i>Bergenia cordifolia</i>	
<i>Boltonia asteroides</i>	Snowbank
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Buddleia davidii</i>	Butterfly-bush (Dwarf Blue, Royal Red)
<i>Buxus microphylla</i>	Japanese boxwood
<i>Callistemon viminalis</i>	Weeping bottlebrush
<i>Calluna vulgaris</i>	Scotch heather
<i>Campanula carpatica</i>	Tussock bellflower (White Clips)
<i>Campsis X tagliabuana</i>	Trumpet creeper; Trumpet flower (Madame Gaten)
<i>Carpobrotus edulis</i>	Hottentot fig; Ice plant
<i>Cassia artemisioides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Ceratostigma plumbaginoides</i>	
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Chrysanthemum nipponicum</i>	
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp. *	Citrus species*
<i>Coreopsis</i> spp.	Coreopsis; Calliopsis (Early sunrise, Moonbeam)
<i>Cornus florida</i>	Flowering dogwood
<i>Cornus stolonifera</i>	American dogwood
<i>Cortaderia selloana</i>	Pampas grass
<i>Cotoneaster apiculatus</i>	Cranberry cotoneaster
<i>Cotoneaster buxifolius</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry cotoneaster
<i>Cotoneaster microphyllus</i>	Rockspray cotoneaster
<i>Crataegus</i> spp.	Hawthorne

Scientific name	Common name (Tested varieties)
<i>Crocosmia</i> spp.	Lucifer
<i>Cupressus sempervirens</i>	Italian cypress
<i>Delosperma alba</i>	White trailing ice plant
<i>Delphinium</i> spp.	Larkspur (Blue elf)
<i>Dianthus deltoides</i>	Maiden pinks (Zing)
<i>Dianthus gratianopolitanus</i>	Cheddar pinks
<i>Dodonea viscosa</i>	Hop bush
<i>Echinacea purpurea</i>	Coneflower, purple (Magnus)
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>Euonymus japonica</i>	Japanese spindle tree; Evergreen euonymus
<i>Euonymus kiautschovicus</i>	Spreading euonymus
<i>Fatsia japonica</i>	Japanese aralia
<i>Forsythia intermedia</i>	Border forsythia
<i>Forsythia suspensa</i>	Weeping forsythia
<i>Forsythia viridissima</i>	Greenstem forsythia
<i>Gaillardia</i> spp.	Blanket flower (Goblin)
<i>Gardenia jasminoides</i>	Gardenia, Cape-jasmine
<i>Gentiana dahurica</i>	Gentian
<i>Geranium cinereum</i>	Cranesbill
<i>Gladiolus</i> spp.**	Gladiolus
<i>Gypsophila repens</i>	Baby's breath
<i>Hedera helix</i>	English Ivy
<i>Helianthemum</i> spp.	Sunrose
<i>Hemerocallis</i> spp.	Daylily (Aztec gold, Stella d'Oro, Tender love)
<i>Hibiscus</i> spp.**	Rose of Sharon**
<i>Hibiscus</i> spp.	Mallow (Disco belle white)
<i>Hibiscus Rosa-sinensis</i> **	Chinese hibiscus**
<i>Hosta plantaginea</i>	Hosta, Plantain lily
<i>Hosta sieboldiana</i>	Hosta (Searsucker)
<i>Houttuynia cordata</i> var. <i>variegata</i>	
<i>Hydrangea macrophylla</i>	Bigleaf hydrangea
<i>Ilex cornuta</i> **	Chinese holly**
<i>Ilex crenata</i>	Japanese holly
<i>Ilex opaca</i>	American holly
<i>Ilex pernyi</i>	Holly
<i>Ilex vomitoria</i>	Yaupon holly
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-leaved iris (Jodlesong)
<i>Iris siberica</i>	Siberian iris (Cabernet)
<i>Iris</i> spp.	Iris **
<i>Jasminum nudiflorum</i>	Winter jasmine
<i>Juniperus chinensis</i>	Chinese juniper (Nick's compact)
<i>Juniperus conferta</i>	Shore juniper (Blue Pacific)
<i>Juniperus davurica</i>	Juniper
<i>Juniperus horizontalis</i>	Creeping juniper
<i>Juglans</i> spp.*	Walnut*
<i>Justicia brandegeana</i>	Shrimp plant
<i>Lagerstroemia indica</i>	Crape myrtle
<i>Lantana montevidensis</i>	Weeping lantana
<i>Lavender</i> spp.	Lavender (Munstead)
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligustrum amurense</i>	Amur privet

Scientific name	Common name (Tested varieties)
<i>Ligustrum japonicum</i>	Japanese privet
<i>Ligustrum lucidum</i>	Glossy privet (Wax-Leaf)
<i>Ligustrum sinense</i>	Chinese privet (Variegata)
<i>Lilium</i> spp.	Lily (Jazz)
<i>Liriope muscari</i>	Liriope (Big blue, Lilyturf, Silver mound, Evergreen giant)
<i>Liriope muscari</i> var. <i>variegata</i>	Liriope, variegated
<i>Liriope spicata</i>	Liriope, creeping
<i>Lobelia cardinalis</i>	Cardinal flower
<i>Lonicera japonica</i>	Japanese honeysuckle
<i>Lonicera tatarica</i>	Tatarian honeysuckle
<i>Loropetalum chinense</i>	Burgundy
<i>Lythrum</i> spp.	Loosestrife (Modern Pink)
<i>Magnolia</i> spp.**	Magnolia**
<i>Maleophora luteola</i>	Ice plant
<i>Malus</i> spp.*	Crabapple*
<i>Miscanthus sinensis</i>	Yaku jima, Silberfeder
<i>Nandina domestica</i>	Heavenly bamboo
<i>Narcissus</i> spp.**	Narcissus**
<i>Nerium oleander</i>	Oleander
<i>Olea europaea</i> *	Olive*
<i>Ophiopogon japonicus</i> **	Mondo Grass**
<i>Osmanthus heterophyllus</i>	Osmanthus; False holly (Gulf tide)
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendron luteum</i>	Sourwood
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Fraser's photinia; Redtip
<i>Physostegia virginiana</i>	False dragonhead (Vivid)
<i>Picea</i> spp.**	Spruce species** (Colorado blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-valley shrub
<i>Pinus brutia</i>	Calabrian pine
<i>Pinus canariensis</i>	Canary island pine
<i>Pinus elliottii</i>	Slash pine
<i>Pinus halepensis</i>	Aleppo pine
<i>Pinus nigra</i>	Austrian black pine
<i>Pinus palustris</i>	Longleaf pine
<i>Pinus radiata</i>	Monterey pine
<i>Pinus strobus</i>	Eastern white pine
<i>Pinus sylvestris</i>	Scotch pine
<i>Pinus taeda</i>	Loblolly pine
<i>Pinus thunbergiana</i>	Japanese black pine
<i>Pinus virginiana</i>	Virginia pine
<i>Pistacia</i> spp.*	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland pittosporum
<i>Pittosporum tobira</i>	Japanese pittosporum
<i>Podocarpus macrophyllus</i>	Japanese yew
<i>Prunus laurocerasus</i>	English laurel
<i>Prunus</i> spp.*	Almond, Apricot, Nectarine, Peach, Plum, and Prune*
<i>Pseudotsuga menziesii</i> **	Douglas-fir**
<i>Pyracantha coccinea</i>	Firethorn, scarlet
<i>Pyracantha fortuneana</i>	Firethorn
<i>Pyracantha koidzumii</i>	Firethorn
<i>Pyrus</i> spp.	Bradford pear

Scientific name	Common name (Tested varieties)
<i>Quercus rubra</i>	Red oak
<i>Quercus shumardii</i>	Shumard oak
<i>Rhaphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i> (including Azalea)	Rhododendron & Azalea (Coral Bells, Delaware valley white, Flame creeper, George L. Tabor, PJM, Roseum Elegans, Formosa, Hino-crimson, Wakaebisu, Gumpo)
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i> *	Rosemary*
<i>Rudbeckia</i> spp.	Black-eyed Susan
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	Goldstrum Santolina
<i>Saxifraga</i> spp.	Saxifrage, Purple dome
<i>Sedum album</i>	Stonecrop
<i>Sedum caulicola</i>	Stonecrop, likadense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Syzygium paniculatum</i>	Japanese boxcherry
<i>Taxus cuspidata</i>	Japanese yew
<i>Taxus media</i>	Yew
<i>Teucrium</i> spp.	Germander
<i>Thalictrum dipterocarpum</i>	Meadow rue
<i>Thuja occidentalis</i>	American arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada hemlock
<i>Tulipa</i> spp.	Tulip
<i>Viburnum japonicum</i>	Japanese viburnum
<i>Viburnum odoratissimum</i>	Sweet viburnum
<i>Viburnum plicatum</i>	Japanese snowball
<i>Viburnum rigidum</i>	Canary Island Viburnum
<i>Viburnum tinus</i>	Laurustinus
<i>Viburnum trilobium</i>	Cranberry Bush
<i>Viburnum wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Greater periwinkle, Vinca
<i>Vinca minor</i>	Common periwinkle
<i>Vitis</i> spp.*	Grape*
<i>Weigela florida</i>	Old fashioned Weigela
<i>Yucca aloifolia</i>	Spanish bayonet
<i>Yucca filamentosa</i>	Yucca, Adam's needle

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

\*\* Not for use on container grown plants

### STORAGE AND DISPOSAL

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

**STORAGE:** Store this product in its original container in a dry, cool, secured area.

**PESTICIDE DISPOSAL:** As a responsible environmental practice, where possible, it is recommended that all of the contents of the bag be used, carefully following label directions and precautions. Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Non-refillable 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.

### OPTIONAL LABEL LANGUAGE THAT MAY APPEAR ON THE FRONT OF THE LABEL

[See additional Precautionary Statements and Directions for Use inside [the] [booklet.]]

[Application Type] [T] [Turf] [T&O] [Turf and Ornamental]

[Read the [entire] label [carefully] before [using this product.] [opening the container.]

[Peel back [label] [book] here

[Cut] [Tear] bag open here]

### OPTIONAL MARKETING CLAIMS

[Feeds [the lawn] up to [2, 3, 4, 5] months]

[Contains [multi source] [multi release rate] nitrogen [for improved root growth]]

[Improved nitrogen consumption]

[Reduced nitrogen overload]

[Reduced nitrogen runoff]

[Facilitates reduced irrigation]

[Improved drought tolerance]

[Equivalent [improved] efficacy at lower NPK levels]

[Controlled release feeding for uniform growth]

[Provides] [season-long] control of crabgrass]

[Provides] long-lasting green]

[Provides slow release nutrients to the soil]

[Creates [stronger] [deeper] root system]

[Feeds [your lawn['s]] roots]

[Apply at the beginning of the growing season [to enhance nutrition and enhance crabgrass control]]

[Combines conventional [*synthetic and/or inorganic*] and natural [organic] fertilizers]

[Reliable [long-lasting] green-up]

[3 month green-up]

[Easy to apply]

[Delivers quick results [without surge growth]]

[Aids in nutrition and disease suppression]

[Contains (XX%) organic matter [(OM)]]

[Combines quick results and long-lasting feeding [as nature intended]]

[Adding the right balance of nutrient sources helps create a healthier lawn and soil]

[Using slowly available nutrients greatly reduces run-off into our waterways]

[ALL N™] [ALL N is a trademark of Turf Care Supply Corp.]

[Contains Arborite®, a superior nitrogen stabilizer.] [Arborite® is a registered trademark of the Weyerhaeuser Company and a Gavilon Fertilizer Licensed Product.]

[UFLEXX™ Stabilized Nitrogen] [UFLEXX™ is a trademark of Koch Agronomic Services]

[XX.X% Stabilized Nitrogen from UFLEXX™.]

[Contains LESCO Poly Plus Polymer Coated Urea to provide a uniform growth with extended nitrogen feeding.]

[[*Company name*] supports the EPA Greenscapes approach to sustainable lawn care landscaping]

[Covers [up to] \_\_\_\_\_ [sq.ft.] [square feet]] [Note: this is dependent on bag size as shown in chart below] [Note to reviewer: The coverage is locked in by the lowest amount permitted on a label. For this label, the lowest application rate is 3.60 LBS per 1,000 SQ FT on Creeping Bentgrass.]

<b>Prodiamine 0.42% + Fertilizer</b>		
<b>Package WT</b>	<b>Covers (SQ FT)</b>	<b>LBS per 1,000 SQ FT</b>
<b>10</b>	<b>2,778</b>	<b>3.60</b>
<b>15</b>	<b>4,167</b>	<b>3.60</b>
<b>20</b>	<b>5,556</b>	<b>3.60</b>
<b>25</b>	<b>6,945</b>	<b>3.60</b>
<b>30</b>	<b>8,334</b>	<b>3.60</b>
<b>35</b>	<b>9,723</b>	<b>3.60</b>
<b>40</b>	<b>11,112</b>	<b>3.60</b>
<b>45</b>	<b>12,501</b>	<b>3.60</b>
<b>50</b>	<b>13,890</b>	<b>3.60</b>
<b>75</b>	<b>20,835</b>	<b>3.60</b>
<b>100</b>	<b>27,780</b>	<b>3.60</b>
<b>200</b>	<b>55,560</b>	<b>3.60</b>
<b>300</b>	<b>83,340</b>	<b>3.60</b>
<b>400</b>	<b>111,120</b>	<b>3.60</b>
<b>500</b>	<b>138,900</b>	<b>3.60</b>
<b>600</b>	<b>166,680</b>	<b>3.60</b>
<b>700</b>	<b>194,460</b>	<b>3.60</b>
<b>800</b>	<b>222,240</b>	<b>3.60</b>
<b>900</b>	<b>250,020</b>	<b>3.60</b>
<b>1,000</b>	<b>277,800</b>	<b>3.60</b>
<b>1,100</b>	<b>305,580</b>	<b>3.60</b>
<b>1,200</b>	<b>333,360</b>	<b>3.60</b>
<b>1,300</b>	<b>361,140</b>	<b>3.60</b>
<b>1,400</b>	<b>388,920</b>	<b>3.60</b>
<b>1,500</b>	<b>416,700</b>	<b>3.60</b>
<b>2,000</b>	<b>555,600</b>	<b>3.60</b>



## OPTIONAL STATE SPECIFIC LANGUAGE

### [Optional state-specific language for metals content]

If this product is being sold in a state requiring the publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: [<http://www.aapfco.org/metals.htm>] [or company specified website].

### [Optional state specific language for state nutrient restrictions]

The maximum rate of application of this product must not exceed the lesser of the applicable rate determined from the **Maximum Annual Rates** section table, and the applicable rate determined in the **State Nutrient Restrictions** table below.

#### STATE NUTRIENT RESTRICTIONS

State	Readily Available Nitrogen* lbs/1,000 sq ft	Total Nitrogen lbs/1,000 sq ft
MD, NH, VA	0.7	0.9
NJ	0.7	1.0

\*Nitrogen present beyond the amount shown as Readily Available must be in the form of Slow-Release nitrogen.

### [Optional state specific language for products containing phosphorous]

In Virginia and New Jersey, this lawn/turf fertilizer contains phosphorous and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf.

### [Optional state specific language: Florida]

In the state of Florida, it is recommended that the user of this product follow the Green Industries and Golf Course Best Management Practices (GI-BMP Manual: *Florida-Friendly Best Management Practices for Protection of Water Resources by the Green Industries*).

It can be found at the Florida-Friendly Landscaping GI-BMP website:  
[http://ffl.ifas.ufl.edu/pdf/GIBMP\\_Manual\\_Web\\_English\\_2015.pdf](http://ffl.ifas.ufl.edu/pdf/GIBMP_Manual_Web_English_2015.pdf)

### [Optional state specific language: Virginia]

Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rains are expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street back onto your lawn/garden.

### [Optional state specific language: Maryland]

This fertilizer contains phosphorus and may not be used on turf in the state of Maryland except when 1) Providing nutrients to specific soils and target vegetation as determined to be necessary in accordance with a soil test that was conducted by a laboratory identified under § 8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application; 2) Establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates established by the State; or 3) Reestablishing or repairing a turf area.

**[Optional Spreader Setting Language]**

**SPREADER SETTINGS**

Spreader settings vary by make and model of spreader. It is recommended that individual spreaders are calibrated for the specific product that is to be applied. Information on spreader make and model and suggested settings will be available at time of label printing. A walking speed of 3 miles per hour is recommended.

Spreader Model	SPREADER SETTINGS							
	Application Rates <sup>2</sup>							
	a.i. lbs./Acre		(Product lbs./1000 sq ft)					
	0.5	(2.7)	0.75	(4.1)	1.0	(5.5)	1.5	(8.2)
Model Make 1/Model Type I	X <sup>1</sup>		X		X		X	
Model Make 2/Model Type II	X		X		X		X	
ETC.	X		X		X		X	

<sup>1</sup>Place Holder.

<sup>2</sup>Application Rates for example only – do not exceed the maximum annual application rate of 1.5 lb a. i./Acre (8.2 lb product/1000 sq. ft.)

Optional Spreader Setting Footnote: Due to spreader setting limitations, application rates are to be applied twice to achieve the a.i./acre rates (e.g., Apply 0.5 a.i./acre rate twice to achieve the 1.0 a.i./acre rate.).

### OPTIONAL MARKETING IMAGES



## **WARRANTY AND LIMITATION OF DAMAGES**

Conditions of sale: To the extent consistent with applicable law, 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 conditions not reasonably foreseeable to Sipcam Agro USA, Inc. SIPCAM AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. To the extent consistent with applicable law, 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.