

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

January 29, 2021

Jordan Moseley Regulatory Specialist Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, NC 27419

Subject: Registration Review Label Mitigation for Prodiamine Product Name: PRODIAMINE F 0.38% HERBICIDE EPA Registration Number: 100-1298 Application Dates: June 28, 2019 Decision Numbers: 552639

Dear Mr. Moseley:

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.

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If you have any questions about this letter, please contact DeMariah Koger by phone at 703-347-0425, or via email at <u>koger.demariah@epa.gov</u>.

Sincerely,

2.

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

Enclosure

PRODIAMINE GROUP 3 HERBICIDE

Prodiamine F 0.38% Herbicide

Provides long lasting control of grass and broadleaf weeds around the home in:

- Established lawns
- Landscape ornamentals
- Established perennials

Active Ingredient:	
Prodiamine*	0.38%
Other Ingredients:	
Total:	100.00%

*CAS No. 29091-21-2

EPA Reg. No. 100-1298

EPA Est. No. 62171-MS-001

KEEP OUT OF REACH OF CHILDREN.

CAUTION

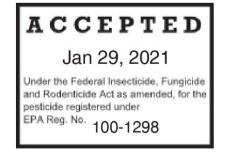
See additional precautionary statements and directions for use on back of bag.

Guaranteed Fertilizer Analysis:

Nitrogen	% (N)
Phosphorus	% (P ₂ 0 ₅)
Potassium	% (K ₂ 0)

SCP 1298-L1 0308

____ pounds Net Weight



	FIRST AID				
lf on skin or	Take off contaminated clothing.				
clothing	Rinse skin immediately with plenty of water for 15-20 minutes.				
	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.				
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.				
	Call a poison control center or doctor for treatment advice.				
Have the product container or label with you when calling a poison control center or					
doctor, or going for treatment. You may also contact 1-800-888-8372 [alternate phone					
number] for emergency medical treatment information.					
HOT LINE NUMBER					
For 24 Hour Medical Emergency Assistance (Human or Animal) or					
Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),					
Call					
[1-800-888-8372] [Alternate Phone Number]					

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 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 waters.

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 nontarget organisms by following label directions intended to minimize spray drift.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, INC. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

- Not for use on plants being grown for sale or commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification.
- Read entire label before using this product.
- People and pets may re-enter after the application is complete.

Prodiamine F 0.38% Herbicide controls certain grass and broadleaf weeds *before* they emerge and provides season-long control in established lawns and ornamentals in the landscape. Prodiamine F 0.38% Herbicide inhibits weed seed germination and root development in susceptible weeds. Prodiamine F 0.38% Herbicide will not control established weeds.

Weeds Controlled [Optional Graphic]

Barnyardgrass	Henbit	Purslane, Common
Bluegrass, Annual (Poa annua)	Itchgrass	Pusley, Florida
Carpetweed	Johnsongrass (from seed)	Rescuegrass ²
Chickweed, Common	Junglerice	Shepherd's Purse
Chickweed, Mouseear	Knotweed	Signalgrass, Broadleaf
(from seed)	Kochia	Speedwell, Persian
Crabgrass (Large, Smooth)	Lambsquarter, Common	Sprangletop
Crowfootgrass	Lovegrass	Spurge, Prostrate
Cupgrass, Woolly	Panicum (Texas, Fall,	Witchgrass
Foxtails, Annual	Browntop)	Woodsorrel, Yellow (from
Goosegrass ¹	Pigweed	seed)

¹In many areas, a single application will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, make a second application 60-90 days later to ornamentals and lawns (if recommended for your lawn grass species.) ²Suppression only.

WEED RESISTANCE MANAGEMENT

PRODIAMINE GROUP 3 HERBICIDE

For resistance management, Prodiamine F 0.38% Herbicide is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to Prodiamine F 0.38% Herbicide 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 Prodiamine F 0.38% Herbicide 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 Page 8 of 18 applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Syngenta Crop Protection at 1-800-334-9481.

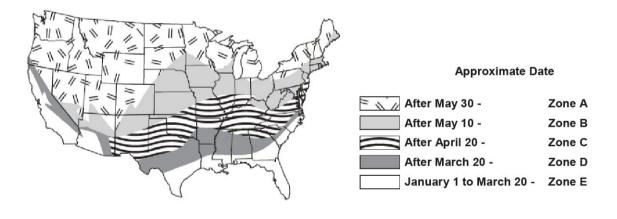
LAWNS

How to Apply

• Refer to *Rates for Grass Species* in table and *Granular Spreader Settings* table for spreader settings to deliver the rate recommended for your lawn grass species. Uniform coverage is necessary to provide the most effective level of control.

- Make a single application of Prodiamine F 0.38% Herbicide to the lawn in the early spring prior to crabgrass emergence. See *Crabgrass Germination Dates* in the map below for the best timing in your area. Always apply before weeds emerge. Prodiamine 0.38% Herbicide will not control emerged crabgrass.
- If you have a known serious weed problem or live in an area with an extended growing season, you may need to make a second application 60-90 days later.
- If you live in Zones D and E (see *Crabgrass Germination Dates* map), you may apply a higher rate (Medium or High Rate) or make two applications for more effective crabgrass control, if recommended for your lawn grass species.
- Do not make a second application to Fine Fescue, Creeping Bentgrass and newly sprigged and plugged Bermudagrass. Do not make a second application if you applied the High Rate to Buffalograss, Kentucky Bluegrass or Perennial Ryegrass.
- For best control After application, water in with ½ inch of water within 14 days, either from watering or rain.

Crabgrass Seed Germination Dates [Optional Graphic]



[Begin - OPTION 1]

Rates for Lawn Grass Species

	Application Schedule ¹	Application Rate ²		e ²
Bermudagrass (established) Bahiagrass Centipedegrass Kikuyugrass	First Application Base Me		Medium	High
Seashore Paspalum St. Augustinegrass Tall Fescue (including turf- type) Zoysia	Second Application (optional)	Base or Medium or High	Base or Medium or High	Base or Medium or High
Buffalograss Kentucky Bluegrass Perennial Ryegrass	First Application	Base	Medium	High
. e.eidi riyegi doo	Second Application (optional)	Base or Medium	Base or Medium	-
Fine Fescue (including Red Fescue)			_	-
Creeping Bentgrass	One Application Only		-	-
Bermudagrass (newly sprigged and plugged) ³			-	-

¹A second application may be necessary because of heavy weed pressure or extended growing season.

²See *Granular Spreader Settings* table for spreader settings to deliver the rate.

³Newly sprigged or plugged Bermudagrass rooting may be temporarily slowed.

[End - OPTION 1]

[Begin - OPTION 2]

Rates for Lawn Grass Species

	Application Rate ¹		
	Base	Medium	High
Bermudagrass (established) Bahiagrass Centipedegrass Kikuyugrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	V	~	V
Buffalograss Kentucky Bluegrass Perennial Ryegrass	\checkmark	~	~
Fine Fescue (Red Fescue)	\checkmark	√	\checkmark
Creeping Bentgrass	\checkmark	√	-
Bermudagrass (newly sprigged and plugged) ²	\checkmark	✓	-

¹See *Granular Spreader Settings* table for spreader settings to deliver the rate. ²Newly sprigged or plugged Bermudagrass rooting may be temporarily slowed.

[End - OPTION 2]

[Spreader models and settings available at the time of final printed labeling. X's on this table are place holders and represent the numerical spreader settings to be added at the time of final printed labeling.]

	J		
		[0.5 lb. a.i./A]	
	[0.38 lb. a.i./A]	[3.0 lb. product/1,000 sq.	[0.75 lb. a.i./A]
	[2.3 lb. product/1,000 sq. ft.]	ft.]	[4.5 lb. product/1,000 sq. ft.]
Make and	Base Rate	Medium Rate	High Rate
Models	(Treats 5,000 sq. ft.)	(Treats 3,860 sq. ft.)	(Treats 2,560 sq. ft.)
Spreader A	X	Х	X
Spreader B	X	Х	X
Spreader C	X	Х	X
Spreader D	X	Х	X
Spreader E	X	Х	X
Spreader F	X	Х	X
Spreader G	X	Х	X
Etc.	X	Х	X

Granular Spreader Settings^{1,2,3}

¹Assume 3 mph walking speed.

²It is recommended that you calibrate your spreader before application since manufacturer's settings can vary among the same model of spreader.

³Do not apply more than 1.5 lbs. ai/A per year.

Use Precautions [Optional Graphic]

- Do not apply to home putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.
- Tillage, aeration, or raking may shorten length of control.
- Seeding: Do not apply to overseeded areas for 60 days after seeding. Do not overseed for 4 months after using this product.
- Sod: Do not apply to newly set sod until the following year.

LANDSCAPE ORNAMENTALS

How to Apply [Optional Graphic]

- Apply Prodiamine F 0.38% Herbicide as a broadcast, over-the-top, or directed application at 3.9-9.1 lbs. product/1,000 sq. ft. Use higher rates when weed pressure was a severe problem in the past.
- Make a single application in fall and/or spring prior to weed emergence. Another application may be made 60-90 days later, if necessary. Do not exceed a total of 9.1 lbs. product/1,000 sq. ft per year.
- After application, water-in with ½ inch of water within 14 days, either from watering or rain. Or, incorporate into the top 1-2 inches of soil within 14 days after application.
- On established ornamentals, watering or rainfall soon after application will wash residues off plant foliage and activate Prodiamine F 0.38% Herbicide in the soil.
- On newly-transplanted ornamentals, apply after the soil has settled around the transplants.
- For best weed control, apply to soil free of clods, weeds, and debris such as leaves.
- Prior to application, control existing weeds by hand weeding, cultivation, or by the use of a herbicide for emerged weeds.
- Plants under stress (such as heat, drought, or frost damage) may be sensitive to Prodiamine F 0.38% Herbicide.

Tolerant Ornamentals

Prodiamine F 0.38% Herbicide will not harm most trees, shrubs, vines and flowers. See the two tables: *Tolerant Ornamentals - All States* and *Tolerant Ornamentals - All States except California.*

Tolerant Ornamentals - All States

Fir species (Balsam, Fraser, Noble, etc.) Japanese Maple Norway Maple Kiwi* Lily-of-the-Nile (African Lily) Holly Vine Hill Manzanita Cape Weed Iris species Japanese Aucuba Barberry Wintergreen Barberry Mentor Barberry Japanese Barberry Walnut* Warty Barberry Shrimp Plant Japanese Boxwood Crape Myrtle Weeping Bottlebrush Amur Privet Scotch Heather Hottentot Fig (Ice Plant) Feathery Cassia Wild Lilac False Cypress Clevera Citrus species* Ice Plant Flowering Dogwood Crabapple* American Dogwood Pampas Grass Cranberry Cotoneaster Oleander Olive* Cotoneaster Bearberry Cotoneaster Mondo Grass Rockspray Cotoneaster Hawthorne Sourwood Italian Cypress Avocado* White Trailing Ice Plant Hop Bush Silverberry Wintercreeper Japanese Spindle Tree (Evergreen Euonymus) Spreading Euonymus Slash Pine Japanese Aralia Aleppo Pine Border Forsythia Greenstem Forsythia Gardenia, Cape Jasmine Gladiolus species Eastern White Pine English Ivy

Rose of Sharon Chinese Hibiscus Chinese Holly Japanese Holly American Holly Yaupon Holly Winter Jasmine Chinese Juniper Shore Juniper **Creeping Juniper** Japanese Privet Glossy Privet (Wax-Leaf) **Big Blue Lillyturf** Japanese Honevsuckle Tatarian Honeysuckle Magnolia species Heavenly Bamboo Narcissus species Trailing African Daisy Frasier's Photinia (Redtip) Spruce species (Colorado Blue, Norway, etc.) Lily-of-the-Valley Shrub Calabrian Pine Canary Island Pine Austrian Black Pine Longleaf Pine Monterev 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 **Bradford Pear species** Red Oak Indian Hawthorne Rhododendron Azalea Ladv Bank's Rose Rosemary* Leatherleaf Fern Green santolina Sedum/Stonecrop Japanese Boxcherry Japanese Yew Yew American Arborvitae Star Jasmine Canada Hemlock Tulip species Japanese Viburnum Sweet Viburnum Japanese Snowball Canary Island Viburnum Laurustinus Cranberry Bush Leatherleaf Viburnum Vinca **Dwarf Periwinkle** Grape* Old Fashioned Weigela Spanish Bavonet Yucca, Adam's Needle

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

Tolerant Ornamentals - All States except California

Abelia, Sherwood Yarrow Lilv of the Nile. African Lilv Five-Leaf or Chocolate Vine Lady's Leek, Nodding Onion Japanese Anemone Aquilegia, Red and Gold Wormwood, Silver Mound Aster Frikart's Aster/Hybrid Aster Lady Fern; Fern Lady Fibrous Begonia; Hardy Grandis Bergenia Snowbank Bougainvillea Butterfly-Bush (Dwarf Blue) Crimson Bottlebrush Tussock Bellflower Trumpet Creeper, Trumpet Flower Leadwort. Dwarf plumbago Montauk Daisy, Nippon Daisy Coreopsis (Calliopsis) Lucifer Cooperi Pink Larkspur Dianthus, Maiden Pinks Cheddar Pink Coneflower, Purple Weeping Forsythia Gaillardia, Blanket Flower Gaura species Gentian Cranesbill Baby's Breath Sunrose Daylily Coral Bells Mallow Hosta, Plantain Lily (Fragrant) Hosta

Houttuynia cordata var. variegata Bigleaf Hydrangea Inula Parsoni Weeping Lantana Lavender Edelweiss Chinese Privet Lily (Lilium species) Lirope, Variegated Lirope, Creeping Cardinal Flower, Indian Pink Burgundy Loosestrife Miscanthus **Evening Primrose** Osmanthus (False Holly) Tree Peonv Fountain Grass (Dwarf) Russian Sage Dragonhead, False Oak, Shumard's Red Yedda Hawthorne Black-Eyed Susan Saxifrage **Pincushion Flower** Spirea Australian Brushcherry Germander Meadow Rue Veronica, Speedwell Arrowood Viburnum

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry place. Keep container closed and away from food, feedstuffs, and domestic water supplies.

Pesticide Disposal and Container Handling

Non-refillable container. Do not reuse or refill this container.

If empty: Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or [or 1-800-888-8372] [or Supplemental Distributor telephone number] for disposal instructions. Never place unused product down any indoor or outdoor drain.

Optional Marketing Claims

- Treats up to 5,000 square feet of lawn [11.5 lb. bag]
- Treats up to 10,000 square feet of lawn [23 lb. bag]
- Treats up to 15,000 square feet of lawn [34.4 lb. bag]
- Treats up to 3,900 square feet of ornamental plants
- Feeds [The Lawn] Up To 2 Months
- Feeds [The Lawn] up To 3 months
- Feeds [The Lawn] Up To 4 Months
- Easy To Apply
- Contains Slow Release Nitrogen [For Lawn Feeding Efficiency]
- Provides [Quick] Spring Greenup
- Provides A Barricade To Crabgrass Germination
- Controlled Release Feeding for Uniform Growth
- Stimulates Root Growth
- Manage Your Lawn Like A Professional
- Prevents Crabgrass In Lawns
- [Provides] [Season-Long] Control Of Crabgrass
- Controls Crabgrass [Before It Germinates] [In A Single Application]
- Keeps Crabgrass From Germinating
- 2-In-1 Fertilize And Crabgrass Control [In A Single Application]
- Crabgrass Preventer [+] [With] Lawn Fertilizer
- Controls Crabgrass and Broadleaf Weeds [Before They Germinate]
- Controls Crabgrass and Other Grass Weeds [Before They Germinate]
- Prevent Crabgrass and Fertilize [Your Lawn] In [One] [A Single] Application

- Apply In [Early] Spring
- Contains Barricade® [Preemergent Herbicide]
- Formulated for Home Lawns Will Not Burn
- Satisfaction Guaranteed

Barricade® and the SYNGENTA Logo are Trademarks of a Syngenta Group Company

Questions or Comments? Call [800 number].

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Manufactured for: Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1298-L1 0308

Prodiamine F 0.38% 1298 Master 0308 0308 AMEND 0619-CL – DI– 6/20/19 000100-01298.20190625.PRODIAMINE-F-0.38%.AMEND.JUN2019-CL