

Fungicide



Broad Spectrum Multi-site Fungicide & Animal Repellent

Active Ingredient:

Thiram (Tetramethylthiuram disulfide) 75.0%

EPA Reg. No. 45728-21

Defiant® is a dry, flowable Thiram formulation. It is ideal for the prevention of Dollar Spot, Brown Patch and Fusarium Patch in the summer season and Pink Snow Mold in the winter. In addition, Defiant provides protection to ornamentals from damage caused by deer, rabbits, rodents and migratory birds.

Broad Spectrum Disease Control

Treats Dollar spot, Brown patch and Snow mold

Animal Repellency

Prevents damage caused by deer, rabbits, rodents and migratory birds

Multi Site Protectant

Prevents resistance development

Unique Formulation

High quality dry - flowable

Cost Effective

Affordable, preventative disease control product with animal control efficacy

Compatible

Great tank mix partner with Sterol Inhibitors (SI) chemistry to increase the spectrum of activity and reduce resistance potential

Use Sites:

Golf greens and tees, outdoor plants and ornamentals

Mode of Action:

FUNGICIDE: Inhibits spore germination and growth of mycelium by interfering with various enzymes involved in the registration process.

REPELLENT: Animals are repulsed by the taste.

Application:

FUNGICIDE:

Golf course tees & greens:
For prevention of Dollar Spot and Brown Patch, apply 2.5-3.0 oz/1000 sq ft. Apply 4.5-5.0 oz/1000 sq ft for a curative treatment.

For Fusarium Patch and Pink Snow Mold, apply preventatively at 8.0 oz/1000 sq ft.

REPELLENT:

Trees, vines, nursery stock, shrubs, ornamentals:

Apply up to one pound of product in 3 -7 gallons of water/1000 sq ft.

Packaging:

4 x 10 lb boxes (case)
30 cases/pallet

Read entire product label prior to use for complete use instructions.

APPLICATION GUIDELINES

	Winter	Spring	Summer	Fall
Brown Patch		●	●	
Dollar Spot		●	●	
Fusarium Patch (Pink Snow Mold)	●	●		
Goose Repellent	●	●		●
Animal repellent (deer, rabbits, rodents)	●	●	●	●

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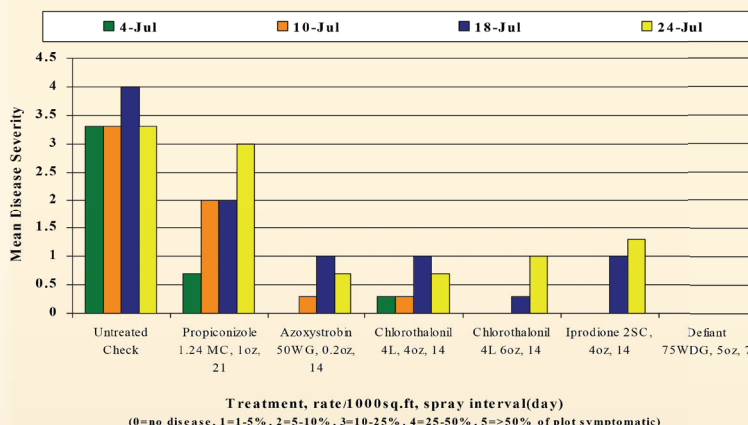
2751 Centerville Road | Suite 100
Wilmington, DE 19808 | Phone: 855-445-7990
www.belchimusa.com | info.usa@belchim.com

Friendly Formulation

Defiant® is a unique dry flowable formulation that is virtually dust free, is easy to handle, and disperses easily in the spray tank and is not sensitive to temperature changes.

Efficacy

Evaluation of Fungicides for Control of Brown Patch in Creeping Bentgrass




Brown patch symptoms were first observed on 1 July. Disease dev. was moderately severe on 4, 10, 24 July and severe on 24 July

Resistance Management

Understanding the different classes of fungicides enables turf managers to design a program that reduces or delays build up of resistance to a fungicide. Defiant is in the dithiocarbonate chemical family and has a low risk of resistance. Unlike other single site fungicide classes, Defiant has a multi-site mode of action making it more difficult for the fungus to mutate and form resistance to the product.

Using Defiant with other classes of fungicide management chemistries will lower your costs, increase your spectrum of control and minimize resistance build up.

Common Tank Mix Partners

Brand Name	Active Ingredient	Family Group	FRAC	Resistance
 Defiant	THIRAM	Dithio- carbonates and relatives	M3	Low
Regalia® PTO	Extract of Reynoutria Sachalinensis	Plant Host Inducer	P	Low
3336	Thiophanate Methyl	Methyl Benzimidazole Carbamates	1	High
Banner® MAXX	Propiconazole	Demethylation Inhibitors	3	Medium
Subdue® MAXX	Mefenoxam	Phenylamides	4	High
Heritage®	Azoxystrobin	Strobilurins (Qol)	11	High
Insignia®	Pyraclostrobin	Strobilurins (Qol)	11	High
Compass®	Trifloxystrobin	Strobilurins (Qol)	11	High
Medallion®	Fludioxonil	Phenylpyrroles	12	Low/Medium
Daconil® Ultrex	Chlorothanil	Chloronitriles	M	Low/Medium
If compatibility with another product is unknown, a jar test should be performed.				

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