

Phytotoxicity to ornamental horticulture plants from BYI-8330 (spirotetramat). **Final**

Ornamental Protocol Number: 09-016

Objective: Determine phytotoxicity of BYI-8330 240 SC to select ornamental horticulture plants.

Experimental Design:

Plot Size: Must be adequate to reflect actual use conditions.

Replicates: Minimum of 3 replications (preferably 4) with 3 plants per replicate

Application Instructions: Apply first foliar and drench applications 2 weeks after transplanting into 4" pots. Repeat foliar applications twice at 2 week intervals. Add a surfactant to the spray solution for the foliar applications.

Plant Materials: Greenhouse, field container or field in-ground. Please specify in final report. Bedding plants and/or tropical foliage plants grown in the greenhouse or in field container. Please specify in final report.

Evaluations: Record plant height & width at initial and final evaluations. At 1, 2, 3, 4, 5, and 6 weeks after initial application, record phytotoxicity on a scale of 0 to 10 (0 = No phytotoxicity; 10 = Complete kill). If appropriate, also include ratings for chlorosis, defoliation, discoloration, stunting or other growth effects on a scale of 0 to 10 (0 = No effect; 10 = Complete plant affected). Please record any issues with flowers, such as damage or flower bud development. If any phytotoxicity is observed in treated plants, take pictures comparing treated and untreated plant material.

If different application methods or evaluations are made, please clearly specify differences in final report and explain how they enhanced results.

Recordkeeping: Keep detailed records of weather conditions including temperature and precipitation, soil-type or soil-less media, application equipment, irrigation, liner size, plant height & width, and plant growth stage at application and data collection dates.

Treatments:

Product	Rates	Special Instructions	Contact Information to obtain materials and any needed adjuvants
BYI-8330 240 SC	3.4 fl oz per 100 gal plus surfactant	Foliar applications: 2 weeks after transplanting and then every 2 weeks after for a total of 3 applications. Use approximately 100 gal of mix solution per acre.	Bayer, Mike Gorrell, 919-549-2423, mike.gorrell@bayercropscience.com Or Bayer, Nate Royalty, 919-549-2532, Nate.Royalty@Bayercropscience.com
	6.8 fl oz per 100 gal plus surfactant		
	13.6 fl oz per 100 gal plus surfactant		
	3.4 fl oz per 1500 4" pots	Drench applications: Single drench 2 weeks after transplanting using enough volume to wet soil media without loss of liquid from bottom of container. Please note volume used in final report.	
	6.8 fl oz per 1500 4" pots		
	13.6 fl oz per 1500 4" pots		
Untreated	--	--	

Reports:

Reports submitted on the standard IR-4 Ornamental Horticulture Research Report Form are preferred.

A report submitted electronically is preferred but not required. If the report is provided electronically, the basic report can be sent in MS Word or WordPerfect, the recordkeeping information as pdf or other electronic documents, and the raw data in MS Excel or other suitable program such as ARM.

Please direct questions to: Cristi Palmer, IR-4 HQ, Rutgers University, 500 College Road East, Suite 201W, Princeton, NJ 08540, Phone 732-932-9575 x4629, palmer@aesop.rutgers.edu.

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Revised By: CLP