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## TECHNICAL INFORMATION BULLETIN

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### FOR USE ON CONTAINERIZED ORNAMENTAL CROPS GROWN IN GREENHOUSES, SHADEHOUSES AND NURSERIES

#### GENERAL INFORMATION:

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**ABIDE™** is a plant growth regulator is for use on ornamental plants grown in containers in nurseries, greenhouses and shadehouses; including bedding plants, bedding plant plugs, bulbs, Easter lilies, poinsettias, chrysanthemums and foliage plants. Use of **ABIDE** effectively reduces internode elongation, resulting in a more desirable compact plant. Growth regulation effects produced by **ABIDE** are the result of inhibition of gibberellin biosynthesis.

**ABIDE** contains 0.0264% Ancyimidol (a-cyclopropyl- a-(p-methoxyphenyl)-5-pyrimidinemethanol).

**ABIDE** is available in quart, 2.5 gallon and 30 gallon containers.

**ABIDE** can be applied by either spray or drench. Under certain conditions, **ABIDE** may be most effective when sprayed in sequential applications. The spray/drenching solution of **ABIDE** should be consistently agitated to ensure uniform distribution during application. **ABIDE** does not require the addition of wetting agents. The efficacy of **ABIDE** is affected by environmental and cultural conditions. Temperature is particularly important in this respect. Conditions causing vigorous growth require higher rates of **ABIDE** to achieve the desired effect. Response to **ABIDE** treatments may vary depending on species and variety.

#### USE AND RATE RECOMMENDATIONS:

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##### Spray Applications

**ABIDE** applied as a foliar spray is absorbed through plant foliage and is then translocated to the terminal where it reduces internode elongation. **ABIDE** reaching the growing media as runoff from foliar treatments or over-spray will result in additional growth regulation from root uptake. Use of the highest recommended application rates may cause a slight delay (two to five days) in flower development on some species.

Sequential applications of **ABIDE** using 50-100% of the lowest recommended application rate can provide more uniform growth effects and also guard against overdosing. This is particularly true when cooler temperatures or lower light conditions occur. Generally the spray volume for small plants in small containers or plug trays which are closely spaced should be 2 qt/100 sq. ft. of bench space. For larger plants with a well developed canopy, a spray volume of 3 qt/100 sq. ft. of bench space is recommended.

##### Drench Applications

Drench applications of **ABIDE** are more uniform and generally result in more consistent height response. **ABIDE** is easily absorbed through the roots and translocated to plant terminals. Growth media should be moist, but not wet at the time of drench application. This is usually achieved by watering the day before application. Varied plant response is likely if the media is too dry, which will prevent even product distribution at application.

Apply **ABIDE** drenches at a solution concentration of 1 to 4 ppm at the recommended volume per pot (shown in the table below). Growers should determine the proper drench solution volume by conducting small trials on a few pots using untreated water in place of the drench solution. The media in which the plants are grown can reduce the effectiveness of **ABIDE** drench applications. The effectiveness of an **ABIDE** drench application will be reduced in growing media that utilizes a high amount of pine bark.

**DRENCH VOLUME GUIDELINES:**

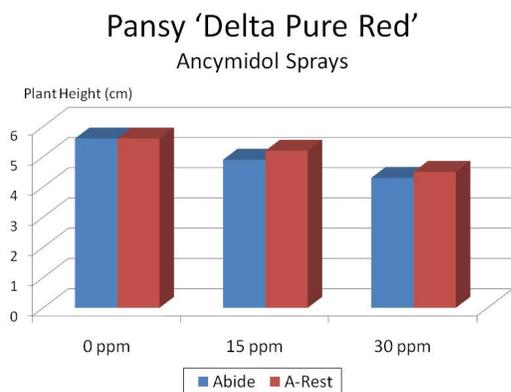
| POT DIAMETER (INCHES) | DRENCH VOLUME (FL.OZ./POT) | DRENCH VOLUME (ML/POT) |
|-----------------------|----------------------------|------------------------|
| 4                     | 2                          | 60                     |
| 5                     | 3                          | 90                     |
| 6                     | 4                          | 120                    |
| 8                     | 10                         | 300                    |
| 10                    | 25                         | 750                    |
| 12                    | 40                         | 1200                   |

**PREPARATION OF ABIDE SOLUTIONS:**

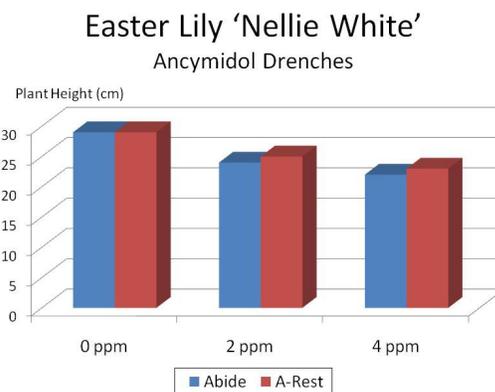
The **ABIDE** rates shown in the following table are general guidelines to be used by growers in trials to determine the optimum **ABIDE** rate, timing, and frequency of application under their individual production situations. See product label for complete instructions.

| CONCENTRATION (ppm) | ABIDE (fl. oz./gal) | ABIDE(ml/gal) |
|---------------------|---------------------|---------------|
| 1                   | 0.5                 | 14            |
| 10                  | 4.8                 | 143           |
| 25                  | 12.1                | 359           |
| 35                  | 17.0                | 510           |
| 100                 | 48.5                | 1433          |

**FIELD TRIAL RESULTS:**



Dr. Erik Runkle, MI State University; 2007



Dr. Roberto Lopez, Purdue University; 2007

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A-Rest is a registered trademark of the SePRO Corporation