



Evaluation Report for Category B, Subcategory 3.1 and 3.12 Application

Application Number: 2010-3036
Application: Changes to product label – Application increase and new site
Product: Piccolo Plant Growth Regulator
Registration Number: 28400
Active ingredients (a.i.): Paclobutrazol
PMRA Document Number: 1982776

Purpose of Application

The purpose of this application was to amend the label for Piccolo Plant Growth Regulator (4 g paclobutrazol/L; Registration number 28400) to include two new ornamental crops, poinsettias and potted chrysanthemums in greenhouses (Use Site Category 6).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Toxicology and dietary assessments were not required for this application.

No risks of concern to paclobutrazol are expected from the addition of poinsettias and potted chrysanthemums to the Piccolo Plant Growth Regulator label. Exposure assessments were performed, and no unacceptable risks to workers who mix, load, apply and re-enter treated greenhouses are expected with the increase in application rate over the registered use pattern, when workers follow label directions and precautions including listed personal protective equipment and the restricted entry interval.

Environmental Assessment

The application rate of Piccolo Plant Growth Regulator was increased for the added uses on poinsettias and potted chrysanthemums, relative to the other application rates for this product. This increase in application rate did not require any additional environmental data or review due to the limited environmental exposure expected for potted plants in a greenhouse setting. Environmental exposure could potentially occur in the case of improper irrigation water disposal practices or the improper cleaning of spray equipment. The label contains the appropriate environmental mitigation statement for this scenario.

Value Assessment

Trial results or manuscripts were provided for chrysanthemum (n=6) and poinsettia (n=5). The trials for which data were provided for review evaluated a number of chrysanthemum and poinsettia cultivars as well as a variety of use pattern combinations (e.g., varied paclobutrazol concentrations, varied application volumes, varied application methods, varied application timings), encompassing the majority of proposed use patterns for potted chrysanthemum and poinsettia. Most trials were conducted with two paclobutrazol containing end-use products registered for use in the United States, including: Bonzi Ornamental Growth Regulator (EPA Registration number 100-996; 0.4% paclobutrazol) and Piccolo Precision Growth Control (EPA Registration number 62097-11; 0.4% paclobutrazol).

The provided trial data indicate that paclobutrazol is effective at reducing the size of chrysanthemum and poinsettia plants, whilst resulting in little to no phytotoxicity to either plant species. Moreover, Piccolo Precision Growth Control activity was shown to be comparable to that of Bonzi Ornamental Growth Regulator in a number of the poinsettia trials. Based on 1) the data that were provided for review, 2) agronomic (or biological) equivalence having been previously determined between Piccolo Plant Growth Regulator and Bonzi Plant Growth Regulator (PMRA Registration number 25453; 4 g/L paclobutrazol), and 3) the fact that the US registered products are currently approved for use on potted chrysanthemum and poinsettia with the same use pattern as that for Piccolo Plant Growth Regulator, the PMRA is able to support the addition of potted chrysanthemum and poinsettia to the Piccolo Plant Growth Regulator label.

Conclusion

The PMRA has completed an assessment of available information for Piccolo Plant Growth Regulator and has found the information sufficient to amend the label to include poinsettias and potted chrysanthemums in greenhouses.

References

PMRA Document Number	Reference
1929203	2004, 10.01 - 2004 Evaluations of Piccolo Foliar Spray Applications on Poinsettia, DACO 10.2.3.3, 10.3.1
1929205	2005, 10.02 - 2005 Evaluations of Paclobutrazol Foliar Spray Applications on Poinsettia, DACO 10.2.3.3, 10.3.1
1929206	2005, 10.03 - Fall Crop Efficacy Trial University of Florida Trials Piccolo, DACO 10.2.3.3
1929207	2004, 10.04 - Essai de regulateurs de croissance sur poinsettia: pirouette & bonzi, DACO 10.2.3.3, 10.3.1
1929208	2004, 10.05 - To test the growth regulations of paclobutrazol on different ornamentals, DACO 10.2.3.3, 10.3.1
1929209	1986, 10.06 - Height control of exacum and chrysanthemum with paclobutrazol, XE-109, flurprimidol and RSW-0411, DACO 10.2.3.3
1929210	1990, 10.07 - Factors affecting efficacy of paclobutrazol and uniconazole on petunia and chrysanthemum, DACO 10.2.3.3, 10.3.1
1929211	2010, 10.08 - High-strength Paclobutrazol Study on Chrysanthemum, DACO 10.2.3.3
1929212	2010, 10.09 - FAL 491 Pot Mum Providence, DACO 10.2.3.3
1929215	2009, Trial ID#: PAK0509, DACO 10.3.1
1929216	2009, Trial ID#: PAK0709, DACO 10.3.1

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