

Evaluation Report for Category B.3.12 Application

Application Number: 2010-3652
Application: New Product - New Product
Product: Configure Plant Growth Regulator
Registration Number: 30595
Active ingredients (a.i.): 6-Benzylaminopurine (Or: 6-Benzyladenine) [BAD]
PMRA Document Number : 2317960

Purpose of Application

Fine Agrochemicals Limited has submitted an application to register a new plant growth regulator product, Configure Plant Growth Regulator, containing 6-benzylaminopurine. The end-use product is identical in formulation to the applicant's registered Cilis Plus Plant Growth Regulator Solution (Registration Number 29210), but with different uses. This end-use product is used on potted greenhouse ornamentals for increased lateral branching and promotion of flowering in certain ornamental crops.

Chemistry Assessment

Configure Plant Growth Regulator is formulated as a liquid containing 6-benzylaminopurine at a nominal concentration of 21 g/L. This end-use product has a relative density of 1.043 and a pH of 4.16. The chemistry requirements for Configure Plant Growth Regulator Solution are complete.

Health Assessments

As the end-use product formulation is identical to that of the registered Cilis Plus Plant Growth Regulator Solution, the toxicology profile of the end-use product is the same as that of Cilis Plus Plant Growth Regulator. Configure Plant Growth Regulator is expected to have low acute toxicity, regardless of the route of exposure. It may be categorized as minimally irritating to the eye, non-irritating to the skin, and is not considered a dermal sensitizer.

The current label statements for Configure Plant Growth Regulator, coupled with the low toxicity are considered adequate to address any potential risk due to exposure of the mixer, loader, applicator, and/or bystander to the end-use product.

Since the end-use product is intended for greenhouse use on ornamentals, no food residue exposure is expected from the end-use product use.

There are no human or animal health incidents reported for 6-benzylaminopurine.

Environmental Assessment

Risk to the environment, through the use of Configure Plant Growth Regulator on ornamentals in greenhouses, does not differ from uses already registered. No further data or analyses are required from an environmental perspective.

Value Assessment

The claim of increased number of flower buds in holiday cactus was supported with efficacy data from three experiments. The claim of increased vegetative branching under vegetative conditions could be supported. Crop safety data from two experiments showed that holiday cactus would be expected to be tolerant to the end-use product.

The claim of increased production of offsets in plantain lily was supported with efficacy data from seven experiments. The claim of increased lateral growth on finished plants could be supported. Crop safety data from seven experiments showed that plantain lily should be tolerant to Configure Plant Growth Regulator when applied according to label directions.

The claim of increased number of branches for purple coneflower was supported with efficacy data from four experiments. Crop safety data from four experiments showed that purple coneflower would be expected to be tolerant to the end-use product.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of information available in support of Configure Plant Growth Regulator and has found the information sufficient to support the full registration of Configure Plant Growth Regulator.

References

- 1162078 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator (Daco 3.1.1, 3.1.2, 3.1.3, 3.1.4), DACO: 3.1.1,3.1.2,3.1.3,3.1.4 CBI
- 1162079 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator (Daco 3.2.1), DACO: 3.2.1 CBI
- 1162080 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator. (Daco 3.2.2), DACO: 3.2.2 CBI
- 1162081 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator (Daco 3.2.3 Discussion of formation of impurities), DACO: 3.2.3 CBI
- 1162082 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator (Daco 3.3.1 Establishing certified limits), DACO: 3.3.1 CBI
- 1162084 2005, Validation of Analytical Method M496 "HPLC Determination of 6-Benzylaminopurine (BAP) in Formulations and Technical Material" - for the "Exilis" Formulation. Final Report., DACO: 3.4.1 CBI
- 1162085 2006, Product Chemistry Data to Support the Registration of Exilis Plus Plant Growth Regulator (Daco 3.4.2 Impurities of toxicological concern), DACO: 3.4.2 CBI
- 1162181 2000, Determination of the Physico-Chemical Properties of Perlman MPG Formulation, DACO: 3.5.1,3.5.11,3.5.2,3.5.3,3.5.6,3.5.7,3.5.9 CBI

- 1162185 2001, Determination of the Long-Term Storage Stability Characteristics of Perlan Formulations, DACO: 3.5.10 CBI
- 1946025 2010, Container Material and Description, DACO: 3.5.5
- 1946063 2010, Evaluation of configure on easter cactus - Report 10.08, DACO: 10.2.3.3
- 1946064 2006, Configure Formulation Trial on Christmas Cactus (*Schlumbergera bridgesii*) - Report 10.05, DACO: 10.2.3.3,10.3.2
- 1946065 BA Application promotes offset formation in hosta cultivars - Report 10.04, DACO: 10.2.3.3
- 1946066 2007, Evaluating Configure for branching of hosta - Report 10.03, DACO: 10.2.3.3
- 1946067 2006, Screening for branching of herbaceous perennials - Report 10.11, DACO: 10.2.3.3
- 1946068 2000, Benzyladenine improves summer quality of hostas - Report 10.01
DACO: 10.2.3.3
- 1946072 Sequential BA applications enhance offset formation in hosta - Report 10.02
DACO: 10.3.1,10.5.3
- 1946073 2009, The influence of benzyladenine on basal branching in Echinacea cultivars - Report 10.09, DACO: 10.2.3.3
- 1946074 2007, Evaluate Combinations of 6BA and GA4+7 to Promote Basal Branching in Echinacea, - Report 10.10, DACO: 10.2.3.3,10.5.3
- 2099092 2006, Results from Trial #2 in Configure Formulation Trial on Christmas Cactus (*Schlumbergera bridgesii*), DACO: 10.2.3.3
- 1162194 1997, Acute Inhalation Toxicity to Rats of GA4/7 & BAP (19 g+19g)/L Formulation, DACO: 4.6.3
- 1162197 1998, Perlan MPG Formulation Eye Irritation to the Rabbit, DACO: 4.6.4
- 1162195 1997, GA4/7 + BAP 19g/L Formulation Skin Irritation to the Rabbit, DACO: 4.6.5
- 1162196 1997, GA4/7 + BAP 19g/L Formulation Skin Sensitization in the Guinea Pig, DACO: 4.6.6
- 1946038 2010, Exposure Summary, DACO: 5.1, 2010-3652
- 1946055 1994, Re-evaluation document - 6-benzylaminopurine, DACO: 5.1, 5.4, 8.2.4.1
- 1946039 2010, Use Description/Scenario (Application and Post-Application), DACO: 5.2
- 1946040 2010, Mixer/Loader/Applicator - Passive Dosimetry Data, DACO: 5.4

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