

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 2.5 Application

Application Number: 2009-4633
Application: Product chemistry – new guarantee, identity of formulants, proportion of fomulants and formulation type
Product: Florgib 4L Plant Growth Regulator
Registration Number: 29884
Active ingredients (a.i.): Gibberellic Acid GA3
PMRA Document Number : 1958411

Purpose of Application

The purpose of this application was to register a new end-use product, Florgib 4L Plant Growth Regulator (4% gibberellic acid), for use on sweet cherries, sour cherries, and seed potatoes.

Chemistry Assessment

Florgib 4L Plant Growth Regulator is formulated as a liquid containing gibberellic acid at a nominal concentration of 4.0%. This end-use product has a density of 0.8003 g/mL and pH of 3.28. The chemistry requirements for Florgib 4L Plant Growth Regulator are complete.

Health Assessments

Florgib 4L Plant Growth Regulator is of low acute toxicity by the oral, dermal and inhalation routes. It was moderately irritating to the eyes and minimally irritating to the skin of rabbits, and was non-sensitizing in a guinea pig maximization test. The formulation does not contain any ingredients of toxicological concern.

Significant risk from exposure to Florgib 4L Plant Growth Regulator for the mixer, loader, and applicator is not expected due to the low acute toxicity of the end-use product and reduced exposure from following the requirements for personal protective equipment (PPE) as stated on the label.

The proposed application rates for the new formulation are either the same or lower than currently registered rates. Therefore, there is not expected to be a change in the amount of gibberellic acid that will be present as residue on treated foods.

Environmental Assessment

The proposed application rates for the new formulation are either the same or lower than currently registered rates. The use pattern, i.e., ground application only, is also the same as those of current registered products. The new formulation of Florgib 4L Plant Growth Regulator is, therefore, not expected to pose any additional environmental concerns.

Value Assessment

One study was submitted in which Florgib 4L (identified as the U.S. registered Falgro 4L) was applied to sweet cherry at 20 ppm of gibberellic acid in a field trial conducted in 2006 in Washington State.

The response of sweet cherry to Florgib 4L (increased fruit firmness, increased fruit size for the last two harvest dates, delayed harvest as evidenced with delayed fruit colour development) is consistent with labelled claims for other gibberellic acid products registered in Canada on this crop. Therefore, it is anticipated that Florgib 4L would also perform in a manner that is consistent with other registered gibberellic acid products following application to yellows virus infected 'Montmorency' sour cherry or to seed potatoes when applied at the same timings and rates, on a gibberellic acid basis.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to register Florgib 4L Plant Growth Regulator for use on yellows-virus infected sour cherry, sweet cherry, and seed potatoes.

References

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- PMRA 1824200 2009, Formulating Plants Name and Address, DACO: 3.1.2 CBI
- PMRA 1824201 2009, Trade Name, DACO: 3.1.3 CBI
- PMRA 1824202 2009, Other Names, DACO: 3.1.4 CBI
- PMRA 1824203 2009, Description of the Starting Materials, DACO: 3.2.1 CBI
- PMRA 1824204 2009, Description of the Formulating Process, DACO: 3.2.2 CBI
- PMRA 1824205 2009, Establishing Certified Limits, DACO: 3.3.1 CBI
- PMRA 1824207 2009, Enforcement Analytical Method, DACO: 3.4.1 CBI
- PMRA 1824208 2009, Impurities of Toxicological Concern, DACO: 3.4.2 CBI
- PMRA 1824209 2009, Colour, DACO: 3.5.1 CBI
- PMRA 1824210 2009, Storage Stability Data, DACO: 3.5.10 CBI
- PMRA 1824211 2009, Flammability, DACO: 3.5.11 CBI
- PMRA 1824212 2009, Explodability, DACO: 3.5.12 CBI
- PMRA 1824213 2009, Miscibility, DACO: 3.5.13 CBI
- PMRA 1824214 2009, Corrosion Characteristics, DACO: 3.5.14 CBI
- PMRA 1824215 2009, Dielectric Breakdown Voltage, DACO: 3.5.15 CBI
- PMRA 1824216 2009, Physical State, DACO: 3.5.2 CBI

- PMRA 1824217 2009, Odour, DACO: 3.5.3 CBI
- PMRA 1824218 2009, Formulation Type, DACO: 3.5.4 CBI
- PMRA 1824219 2009, Container Material and Description, DACO: 3.5.5 CBI
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- PMRA 1824221 2009, pH, DACO: 3.5.7 CBI
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- PMRA 1824240 1996, Product Chemistry for Non-Combustible End-Use Liquids Not for Use Around Electrical Equipment, DACO: 3.5.11, 3.5.14, 3.5.6, 3.5.7, 3.5.9 CBI
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- PMRA 1824247 1996, Guinea Pig Maximization Test for Topically Applied Test Materials. Unpublished, DACO 4.6.6.
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- PMRA 1824259 2006, Effects of GA3 concentration on sweet cherries in Buena, WA, DACO 10.2.3.2

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