



Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2014-1775
Application: New Pests
Product: Inspire Super Fungicide
Registration Number: 30827
Active ingredients (a.i.): cyprodinil and difénoconazole
PMRA Document Number : 2471953

Background

Inspire Super Fungicide was first registered February 13, 2013. It is registered for foliar application to pome fruit (apple, crabapple, pear, oriental pear and quince) for control of scab caused by *Venturia inaequalis* or *V. pirina*) at rates of 560-836 g/ha (48-72 g/ha difénoconazole and 139-208 g/ha cyprodinil), and for the control of brooks fruit spot (*Mycosphaerella pomi*), cedar apple rust (*Gymnosporangium juniperi-virginianae*), flyspeck (*Zygophiala jamaicensis* formerly known as *Schizothyrium pomi*), quince rust (*Gymnosporangium clavipes*), scab (*Venturia inaequalis*, *V. pirina*), sooty blotch (*Gloeodes pomigena*), and for suppression of powdery mildew (*Podosphaera leucotricha*) at a rate of 836 g/ha. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to expand the registration of Inspire Super Fungicide to include two new disease claims for the product foliarly applied to labelled pome fruit at 836 g/ha (280 g a.i./ha: 72 g difénoconazole/ha + 208 g cyprodinil/ha) with applications beginning prior to disease development and continuing on a 7 to 10 day schedule. The two specific claims requested were control of bitter rot (*Colletotrichum* spp.) and black rot (*Botryosphaeria obtusa*). In addition, Allegro 500F (Reg. No. 27517), containing 500 g fluazinam/L, was requested as a tank mix partner. This product is registered for the control of scab, sooty blotch and flyspeck in apple.

Chemistry Assessment

A chemistry assessment was not required as there was no change to the product formulation.

Health and Environmental Assessment

Health and environmental assessments were not required as there was no change to the use pattern, including host crops, application methods, timings and rates.

Value Assessment

Reports of five field studies were submitted in which the efficacy of several fungicide treatments for control of one or both diseases was evaluated. Fungicide treatments consisted of multiple application sequences, some of which included applications of Inspire Super applied alternately or followed by other fungicides, including Captan, which is registered for control of bitter rot and black rot on apple at rates applied in the trials. Therefore, it was difficult to discern the actual contribution of Inspire Super for control of these diseases due to confounding with other fungicides or due to very low disease incidence.

Allegro 500 F (Reg. No. 27517), containing 40% fluazinam (500 g a.i./L), is supported as a tank mix partner since as a Fungicides Resistance Action Committee (FRAC) group 29 fungicide, it is considered to have a low risk of pathogen resistance development, such that tank mixing with Inspire Super could be expected to help mitigate the development of resistance of the causal pathogens of scab, flyspeck and sooty blotch to group 3 (difenoconazole) and 9 (cyprodinil) fungicides, both of which are considered to have a medium risk of pathogen resistance development.

Conclusion

The PMRA has conducted an assessment of the subject application and has determined that the submitted information is inadequate to support claims against bitter rot (*Colletotrichum* spp.) and black rot (*Botryosphaeria obtusa*) on pome fruit. Allegro 500 F Fungicide is supported as a tank mix partner with Inspire Super for application to apple.

References

List of Studies/Information Submitted by Registrant

Value Assessment

2426284	2009, Summer disease programs for 'Golden Delicious' apple,, DACO: 10.2.3.3
2426285	2013, Fungicide mixtures and rotations for full season disease management on Red Delicious, Golden Delicious, and Rome apples,, DACO: 10.2.3.3
2426286	2011, Disease control by experimental fungicides and mixtures on Golden Delicious, Idared, and York Imperial apples, DACO: 10.2.3.3
2426290	2011, Apple Disease Control with Merivon, Inspire Super, Omega, Indar, Topguard, and Rally, DACO: 10.2.3.3
2426291	2009, Controlling summer diseases on apples with Inspire Super, Rally, Indar, Tebuzol, and Luna Sensation, DACO: 10.2.3.3

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