

## Evaluation Report for Category C, Subcategory 3.10

**Application Number:** 2010-1128  
**Application:** Category C, subcategory 3.10 (tank mixtures)  
**Product:** Silencer 120 EC Emulsifiable Concentrate Insecticide  
**Registration Number:** 29052  
**Active ingredients (a.i.):** Lambda-cyhalothrin at 120 g/L  
**PMRA Document Number :** 1965217

### Background

Silencer 120 EC Emulsifiable Concentrate Insecticide has been registered since October 14, 2008. Silencer 120 EC Emulsifiable Concentrate Insecticide is registered for control of listed insects on oilseeds, cereals, pasture, tree fruit, strawberries, tobacco, potatoes, tomatoes, cole crops, leaf and head lettuce, greenhouse lettuce, bulb vegetables (Crop Group 3), chokecherry, legume vegetables (Crop Group 6), corn, ferns of asparagus, timothy grown for hay or seed and sweet potato. 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 submission is to amend the currently registered label for Silencer 120 EC Emulsifiable Concentrate Insecticide by adding a tank-mix with Headline EC Fungicide (Reg. No. 27322, 250 g/L pyraclostrobin) for control of labelled insects and diseases on field peas. The proposed use pattern is to follow all directions on the registered labels of Silencer 120 EC Emulsifiable Concentrate Insecticide and Headline EC Fungicide, which are: maximum of 3 applications of Silencer 120 EC Emulsifiable Concentrate Insecticide at the rate of 83 ml/ha in an application volume of 100-200 L/ha; and a maximum of 2 applications of Headline EC Fungicide at the rate of 400-600 ml/ha. Applications of this tank-mix are to be made when labeled insect and disease pests appear simultaneously.

### Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and environmental assessments were not required since the use pattern, including host crops, application rates and timings, of the component products remained unchanged.

## Value Assessment

Four field trials on field pea were provided to support the tank mix of Silencer 120EC Emulsifiable Concentrate Insecticide with Headline EC Fungicide. Headline EC Fungicide was applied alone at 400 and 600 mL/ha to establish the level of disease control within each trial. The same rates of Headline EC were used in the proposed tank-mixture with Silencer 120 EC Emulsifiable Concentrate Insecticide. *Mycosphaerella* blight (*Mycosphaerella* spp.) was evaluated in these trials. The disease did not develop in one trial and high levels of ascochyta blight were observed in the other two trials with 51 and 60% disease severity, respectively. The level of disease control provided by the tank mix was 79% compared to 77% for Headline EC alone.

The trials also demonstrated that efficacy of Silencer 120 EC Emulsifiable Concentrate Insecticide for control of aphids and grasshoppers on field peas was not affected by tank-mixing with Headline 250 EC Fungicide at labelled rates. This tank-mix did not cause any phytotoxicity.

## Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Silencer 120 EC Emulsifiable Concentrate Insecticide to include the proposed tank mixture with Headline 250 EC Fungicide.

## References

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