



## Evaluation Report for Category B, Subcategory 3.1, 3.3, 3.4 Application

**Application Number:** 2010-2752  
**Application:** Changes to product label: application rate increase, application number or frequency, application method  
**Product:** ZeroTol Broad-Spectrum Algaecide/Fungicide  
**Registration Number:** 29508  
**Active ingredient (a.i.):** Hydrogen peroxide  
**PMRA Document Number:** 2167089

### Background

ZeroTol Broad-Spectrum Algaecide/Fungicide was first registered in 2010 as an algaecide/fungicide for non-porous and wood surfaces in greenhouses, greenhouse irrigation waters, ornamentals in greenhouses and outdoors, as well as on turf. For details on the scientific evaluation of ZeroTol Broad-Spectrum Algaecide/Fungicide and its active ingredient hydrogen peroxide, please refer to Evaluation Report ERC2010-10, *Hydrogen peroxide*.

### Purpose of Application

The purpose of this application was to amend the label to increase the rate for irrigation system applications and to add directions of use for suppression of algae, fungi and bacteria during mist propagation of cuttings and plugs.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessment

The anticipated increase in the occupational exposure caused by the changes to the use pattern is expected to be mitigated by the personal protective equipment specified on the label and the restriction for workers to wait until residues have dried before re-entering treated areas. No unacceptable risk is expected when workers follow label directions and wear personal protective equipment as specified on the label.

### Environmental Assessment

Risks to non-target aquatic and terrestrial organisms are not anticipated to increase as a result of the changes to the use pattern. Precautionary measures specified on the label, including restrictions with respect to spray drift management, are required to minimise exposure of aquatic organisms.

## **Value Assessment**

A scientific rationale was provided to support the value of an increased rate of application for irrigation systems. The increased rates of the product for the reduction of fungal and bacterial counts under representative use conditions was supported by the submitted information.

The addition of the use of ZeroTol Broad-Spectrum Algaecide/Fungicide in mist propagation systems constitutes a new method of application. A single trial report was provided in partial support of this claim, which showed some reduction in the growth of algae. The use of ZeroTol Broad-Spectrum Algaecide/Fungicide to suppress algal growth on plug and cutting substrates in misting chambers is supported based on the results of the efficacy trial as well as the currently registered use for management of green and blue-green algae on turf.

## **Conclusion**

The PMRA conducted an evaluation of the subject application and determined that the increase in rate for irrigation system applications and the conditions of use for suppression of algae, fungi and bacteria during mist propagation of cuttings and plugs have value and will not pose unacceptable health or environmental risk.

## **References**

- 1616752 2008, Evaluation of Storox as a water treatment in dump tanks, DACO: 10.2.3.2
- 1940527 2010, Rationale for amending the use directions on the ZeroTol Broad-Spectrum Algaecide/Fungicide label, DACO: 10.1, 10.2.3.1, 10.2.3.2(D), 10.3.1, 10.3.2(B)
- 2038423 2008, Evaluation of ZeroTol as an algaecide, bactericide and fungicide in poinsettia propagation, DACO: 10.2.3.3

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