Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 4.1 Application

Application Number: 2009-4721
Application: Conversion to full registration without consultation
Product: Biobarrier Root Control System
Registration Number: 28477
Active ingredient (a.i.): Trifluralin
PMRA Document Number : 1986442

Background

The end-use product, Biobarrier Root Control System, was granted conditional registration in 2006 and was subject to the terms and conditions outlined under Application Number 2004-1021.

Purpose of Application

The purpose of this application was to convert Biobarrier Root Control System to full registration.

Chemistry Assessment

The storage stability data provided were assessed to be acceptable.

Health Assessments

No unacceptable risk is expected when workers follow label directions and wear personal protective equipment as recommended on the label.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Three long-term field studies and two container ‘pot-in-pot’ studies were submitted.

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Field studies that ranged in length from 15 months to 7 years confirmed the ability of Biobarrier Root Control System to re-direct tree roots away from the barrier without adversely affecting desirable plants. Even after 7 years, roots had not penetrated the barrier but rather were re-directed over, under or around the product. The studies also confirmed that Biobarrier Root Control System inhibits root growth beyond which is provided by the non-woven polypropylene fabric.

The container 'pot-in-pot' studies confirmed the ability of Biobarrier Root Control System to inhibit and, or re-direct root growth away from the barrier. However, the studies also indicated that plant growth may be reduced in some ornamental species with the use of Biobarrier Root Control System. For this reason a cautionary statement was added to the label.

Conclusion

The PMRA conducted an evaluation of the subject application and determined that full registration can be supported.

References

PMRA Document Number: 1825896
Reference: 1997, Evaluation of Biobarrier for tree root inhibition 1996-1997, Data Numbering Code: 10.2.3.3(b), 10.3.2

PMRA Document Number: 1825897
Reference: Smiley ET, 2005, Root growth near vertical root barriers, J. Aboriculture 31(3): 150-152, Data Numbering Code: 10.2.3.3(b)

PMRA Document Number: 1825898
Reference: 2008, Root growth near vertical root barriers after seven years, Data Numbering Code: 10.2.3.3(b), 10.3.2

PMRA Document Number: 1825899
Reference: 1995, Use of Biobarrier for rooting-out problems in different ornamental species produced in pot-in-pot production systems, Data Numbering Code: 10.2.3.3(b), 10.3.2

PMRA Document Number: 1825900
Reference: Ruter J, 1994, Evaluation of control strategies for reducing rooting-out problems in pot-in pot production systems, J. Environ. Hort. 12(1): 51-54, Data Numbering Code: 10.2.3.3(b), 10.3.2

PMRA Document Number: 1825901
Reference: 2007, Storage losses of trifluralin after 27-months at 20-23°C, Data Numbering Code: 3.5.10

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