

New Pests

Evaluation Report for Category B, Subcategory 3.11 Application

Application Number: 2017-2946
Application: New Pests
Product: Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide
Registration Number: 27487
Active ingredients (a.i.): glyphosate, present as the potassium salt
PMRA Document Number: 2812616

Background

Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide was first registered October 17, 2003. Roundup WeatherMax is registered for general weed control in multiple crop and non-cropland sites, and includes the option of application by stem injection to control woody plant species. 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 Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide to include claims of control of giant hogweed and knotweed (Japanese, giant and Bohemian) for the product applied by means of stem injection. One leaf cane per giant hogweed plant is treated with 10 ml of a 5% v/v solution at about chest height and below a node. Each knotweed stem is treated with 5 ml undiluted product between the second and third internode.

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 given that the injection method was already labelled for control of woody species and since no other changes were made to the product label.

Value Assessment

Giant hogweed is an invasive biennial or perennial weed species that can grow to over 5 metres in height. It represents a serious health hazard due to the highly toxic sap contained in its stem hairs and leaves that can cause severe photodermatitis resulting in burns, blisters and scarring of the skin. It spreads rapidly by seed and outcompetes native vegetation.

Japanese knotweed, giant knotweed and Bohemian knotweed are also invasive perennial species that grow in a wide array of environments and spread mainly by vegetative means, i.e., rhizomes as well as stem and root fragments. Knotweeds pose a significant threat to riparian areas due to their ability to rapidly colonize lake shores, rivers and streams, survive severe flooding, expand from shorelines into water and given that populations are extremely persistent once established. Knotweeds can shade out understory native plants preventing forest regeneration and natural succession. Populations of knotweeds in urban and suburban areas have the ability to damage infrastructure, including roadways, concrete and building foundations.

In small-scale field trials, injection application of 10 mL/plant of a 5% v/v solution of product was demonstrated to be more efficacious than lower rates and to consistently control giant hogweed during the year of treatment, and with complete control consistently observed in the following year.

Submitted use history information was largely based on operational studies in which Roundup WeatherMax was applied to Japanese, giant and Bohemian knotweed at 5 ml product/stem just below the third node. Application was stated to consistently result in 80-100% control. It was indicated that follow-up treatments would often be required in the same year and in the subsequent 1-2 years due in part to emerging new plants from seed and as the result of missed stems.

The option to apply Roundup WeatherMax via stem injection to selectively control and eradicate giant hogweed and knotweed populations allows treatment to occur in areas where foliar applications cannot be used or are not practical, such as in riparian and woodland areas, where these weeds are near or mixed with native vegetation, and in urban and suburban settings.

Conclusion

The PMRA has conducted an assessment of the subject application and has determined that the submitted information is adequate to support claims of control of giant hogweed and knotweed (Japanese, giant, Bohemian) for Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide applied by means of stem injection in accordance with the label.

References

List of Studies/Information Submitted by Registrant

Value Assessment

2773106	Non-cropland Use History - Hollow Stem Injection of Knotweed Species, DACO: 10.2.4
2773108	Efficacy Trial Report - Scotch Block (2011) - Giant Hogweed, DACO: 10.2.3.3(B)
2773109	Efficacy Trial Report - Scotch Block (2012) - Giant Hogweed, DACO: 10.2.3.3(B)
2773110	Efficacy Trial Report - New Dundee - Giant Hogweed, DACO: 10.2.3.3(B)
2773111	Efficacy Trial Report - Wilberforce - Giant Hogweed, DACO: 10.2.3.3(B)
2773112	Efficacy Trial Report - Kintail - Giant Hogweed, DACO: 10.2.3.3(B)
2773113	Efficacy Trial Report - Norwich - Giant Hogweed, DACO: 10.2.3.3(B)
2773114	Efficacy Trial Report - Dorset - Giant Hogweed, DACO: 10.2.3.3(B)

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