



Evaluation Report for Category B, Subcategory 3.1, 3.12, 3.13, 3.2, 3.3, 3.4 Application

Application Number: 2020-3622
Application: Changes to Product Labels – Application Rate Increase or Decrease, New Site or Host, Precautions, Application Timing, Application Number or Frequency and Application Method
Product: Noxfish Fish Toxicant II
Registration Number: 33247
Active ingredient (a.i.): Rotenone
PMRA Document Number: 3270881

Purpose of Application

The purpose of this application was to amend the label for Noxfish Fish Toxicant II to add rivers and canals as use sites, amend the current directions for use in streams to match those of the new use sites and add directions for deactivating the active ingredient to minimize exposure outside the treatment area.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The amendments have no impact on the acute toxicity profile of the product.

The amended use of Noxfish Fish Toxicant II is not expected to result in potential occupational/residential or dietary exposure over the registered use of rotenone. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

The amended use of Noxfish Fish Toxicant II is not expected to result in additional risks to the environment compared to its previously registered uses when used according to label directions; therefore, the environmental risk is acceptable. Overall, there may be some risk to non-target aquatic organisms from the application of rotenone. However, the Pest Management Regulatory Agency recognizes that control of invasive species is necessary in order to help protect habitats for native species.

When used according to label directions, the use of Noxfish Fish Toxicant II will have the desired effect of controlling target invasive fish species that pose a risk to aquatic habitats and minimize effects to non-target species.

Value Assessment

A scientific rationale was reviewed in support of the addition of new use sites to the Noxfish Fish Toxicant II label, as well as amendments to the use pattern to address application to flowing water. The information supports the addition of streams, rivers, and canals as treatment areas at a maximum rate of 200 ppb applied at specific locations along the water body to maintain a lethal concentration of rotenone. A second application may be made to ensure all areas of the water body are treated and avoid escaped target fish and their offspring. The process for deactivating rotenone before treated water leaves the treatment area was also supported.

Noxfish Fish Toxicant II is a restricted use product and users must consult with provincial and federal Fish and Wildlife Agencies before applying to avoid detrimental environmental effects. The ability to control invasive fish in flowing water bodies enhances eradication of these species in multiple habitats, including spawning areas, and prevent invasion of connected water bodies. The registration of the use of rotenone in these areas will improve provincial and federal efforts to completely remove invasive fish from aquatic ecosystems in an effort to preserve native fish species and their social and economic benefits to local residents.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to amend the label for Noxfish Fish Toxicant II.

References

PMRA Document Number	References
3145177	2020, Value Summary for Noxfish Fish Toxicant II (Reg. No. 33247) for Use in Rivers, DACO: 10.1, 10.2.1, 10.2.2, 10.2.3.1, 10.2.3.3, 10.3.1, 10.3.2, 10.4, 10.5.1, 10.5.2, 10.5.3, 10.5.4
3145180	1987, Rotenone-- Freshwater Fish LC ₅₀ -- Rainbow Trout and Bluegills, DACO: 10.2.3.2, 9.5.2.1
3145181	T. D. Bills and L. L. Marking, 1976, Toxicity of Rotenone to Fish in Standardized Laboratory Tests, Investigations in Fish Control 72, DACO: 10.2.3.2, 9.9
3145182	Robert Engstrom-Heg, 1972, Kinetics of Rotenone-Potassium Permanganate Reactions as Applied to the Protection of Trout Streams, New York Fish and Game Journal 19(1) 47-58, DACO: 10.2.3.2, 9.9
3145183	Finlayson, B., B. Somer and M. Vinson., 2009, Rotenone Toxicity to Rainbow Trout and Several Mountain Stream Insects, North American Journal of Fisheries Management 30:102–111, DACO: 10.2.3.2, 9.5.2.1

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