

Evaluation Report for Category B Subcategory 2.1, 3.12 Application

Application Number: 2013-2335
Application: B.2.1 New / Changes EP or MA Product Chemistry-Guarantee
B.3.12 New or Changes to Product Labels-New Site or Host
Product: H02 Moss Killer Ready-to-Spray
Registration Number: 31343
Active ingredients (a.i.): Potassium soap of fatty acids (SOC) / Herbicide
PMRA Document Number : 2316266

Purpose of Application

The purpose of this application was to register a new domestic end-use product, H02 Moss Killer Ready-to-Spray, for control of mosses, algae, lichens, and liverworts on various sites, including lawns and ornamental gardens.

Chemistry Assessment

H02 Moss Killer Ready-to-Spray is a formulation containing potassium salts of fatty acids at 22.11% each. This product has a density of 1.04 ± 0.03 g/mL and a pH of 10.00 ± 0.25 . The chemistry requirements for H02 Moss Killer Ready-to-Spray have been fulfilled.

Health Assessments

The new domestic end-use product, H02 Moss Killer Ready-To-Spray, is used for the control of mosses, algae, lichens and liverworts on various sites, including lawns, ornamental gardens and motor homes/boats. It is applied through a hose end sprayer that automatically dilutes the product to the equivalent spray rate as the associated domestic end-use product, H02 Moss Killer Consumer Concentrate.

H02 Moss Killer Ready-To-Spray is expected to have low acute toxicity by oral and dermal route, however, it is a skin and eye irritant. The current label statements for H02 Moss Killer Ready-To-Spray are considered adequate to address any potential risk due to exposure of the mixer, loader, applicator and/or bystander to the end-use product. Occupational exposure when applying H02 Moss Killer Ready-To-Spray is not expected to result in unacceptable risk when the product is used according to label directions.

Environmental Assessment

The uses of the proposed formulations of H02 Moss Killer products containing potassium salts

of fatty acids are not expected to increase the environmental exposure relative to other approved fatty acids-based soap salts (e.g., Registration Numbers 27882 and 27883). Therefore, negligible risk is expected. Environmental concerns have been mitigated through adequate statements on the product label.

Value Assessment

H02 Moss Killer Ready-To-Spray is identical to H02 Moss Killer Consumer Concentrate, but is applied through a hose end sprayer that automatically dilutes the product to be equivalent to the spray rate of H02 Moss Killer Consumer Concentrate. Therefore, information submitted in support of the registration of H02 Moss Killer Consumer Concentrate under Application Number 2013-2334 is applicable to H02 Moss Killer Ready-To-Spray.

Potassium salts of fatty acids is one of the few pesticides presently available to domestic users in certain jurisdictions that have enacted legislation restricting pesticide availability for non-essential or cosmetic use. There are a few end use products containing potassium salts of fatty acids in the Canadian market for control of mosses, algae, lichens, and liverworts; two of them include uses on turf. The availability of H02 Moss Killer Ready-To-Spray from a different manufacturer may be expected to increase market competitiveness.

Conclusion

The Pest Management Regulatory Agency (PMRA) has carried out an evaluation of available information and has concluded that the registration of a new domestic end-use product, H02 Moss Killer Ready-to-Spray, for control of mosses, algae, lichens, and liverworts on various sites, including lawns, ornamental gardens and motor homes/boats can be supported.

References

Chemistry

2297792 2013, Binder #1, DACO: 3.0, 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2, 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4, 3.4.1, 3.4.2, 3.5, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.3, 3.5.4, 3.5.5, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI

Health

2297819 2013, Part 5, Exposure (Occupational and/or Bystander), DACO 5.2

Value

2297794 2013, Binder #3, DACO:10.1, 10.2, 10.2.1, 10.2.2, 10.2.3, 10.2.3.1, 10.2.3.2, 10.2.3.3(B), 10.3, 10.3.1, 10.3.2(A), 10.3.3, 10.4, 10.5, 10.5.1, 10.5.2, 10.5.3, 10.5.4.

2297795 2013, Non-safety Adverse Effects - Summaries, DACO: 10.3.2.

2297796 2013, Efficacy Summaries, DACO: 10.2.3.1.

2297797 2012, The Evaluation of Moss Reduction Products on Bentgrass Turf, DACO:

- 10.2.3.3(B).
- 2297798 2008, 2008 Evaluation of Efficacy of Citrus Oil (d-limonene) Applications to Control Lawn Moss as Compared to Commercial Standards, DACO: 10.2.3.3(B).
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- 2297802 2000, 2000 Spring Putting Green Moss Control Trial (Preliminary Report), DACO: 10.2.3.3(B).
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- 2297807 2008, 2008 Perennial Ryegrass and Annual Bluegrass Tolerance to Citrus Oil (d-limonene) Applications to Control Lawn Moss as Compared to Commercial Standards, DACO: 10.2.3.3(B).
- 2297808 2001, Moss Control on Putting Greens Using Potassium Salt of Fatty Acids, DACO: 10.2.3.3(B).

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