Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 2.1, 2.3 and 3.11 Application

Application Number: 2011-5324
Application: Product Chemistry – guarantee
Product Chemistry – identity of formulants
Product Labels – new pests
Product: Green It 4-in-1 Grass and Weed Killer Ready-to-Use
Registration Number: 31351
Active ingredients (a.i.): Ammonium salt of fatty acid
PMRA Document Number : 2204377

Purpose of Application

The purpose of this application was to register a new domestic class end-use product, Green It 4-in-1 Grass and Weed Killer Ready-to-Use, containing ammonium salt of fatty acid, for contact spray control or burndown of weeds, grasses, moss and algae.

Chemistry Assessment

Green It 4-in-1 Grass and Weed Killer Ready-to-Use is formulated as a solution containing ammonium salt of fatty acid at a nominal concentration of 5%. This end-use product has a density of 1.0 g/cm^3 and pH of 7-8. The chemistry requirements for Green It 4-in-1 Grass and Weed Killer Ready-to-Use are complete.

Health Assessments

Green It 4-in-1 Grass and Weed Killer Ready-to-Use is an aqueous dilution of the technical grade active ingredient (TGAI). Since the TGAI is of low toxicity, the end-use product is also expected to be of low toxicity. This low strength domestic EP is likely to be mildly irritating to the eye, and minimally irritating to skin.

The proposed and recommended precautionary label statements for Green it 4-in-1 Grass and Weed Killer Ready-To-Use are considered sufficient to address any significant exposure to the applicator(s), bystander(s) and domestic-users.

As the end-use product is an herbicide intended for non-crop applications, no food residue exposure is expected from the proposed uses.

Environmental Assessment

The use of Green It 4-in-1 Grass and Weed Killer Ready-to-Use at the labelled rates will not

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result in increased environmental exposure relative to other registered products containing ammonium salt of fatty acid. Environmental risks from the use pattern are expected to be limited. Environmental concerns have been mitigated through adequate statements on the product label.

Value Assessment

Ammonium nonanoate is a C9 saturated-chain fatty acid salt and is known as ammonium salt of fatty acid. It is one of the few herbicides presently available to domestic users in certain jurisdictions which have enacted legislation restricting pesticide availability for non-essential or cosmetic use. There are a few products containing ammonium salts of fatty acids available in Canadian market. The availability of Green it 4-in-1 Grass and Weed Killer Ready-to-Use from a different manufacturer would be expected to increase market competitiveness.

The value information provided included efficacy data from 6 studies to support registration of Green it 4-in-1 Grass and Weed Killer Ready-to-Use. The data supported claims of control or suppression of crabgrass, morningglory, carpetweed, burning nettle, pigweed, palmer amaranth, goose grass, shepherd's-purse, purslane, and hairy nightshade at up to 22.5 kg a.i./ha (or 1.0-6.6% wt a.i. spray concentration).

The use directions for Green it 4-in-1 Grass and Weed Killer Ready-to-Use are consistent with those included on the labels of registered products containing 5% w/w ammonium nonanoate in the US, e.g., Emery Agro 7010 Ready-to-Use. Ammonium nonanoate is known as a non-selective contact herbicide for control of grass and broadleaf weeds. As the product is only applied to undesirable plants, the label advises against applying to desirable plants.

Conclusion

The PMRA has completed an assessment of the available information and is able to support the registration of Green It 4-in-1 Grass and Weed Killer Ready-to-Use, containing ammonium salt of fatty acid, for contact spray control or burndown of weeds, grasses, moss and algae.

References

PMRA Document Number	References
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2290619	2013, Enforcement Analytical Method, DACO: 3.4.1
2100555	Emery Agro 7001 Concentrate Toxicology Information DACO sections 4.2.1, 4.5.7 Summary, DACO: 4.2,4.3,4.4,4.5,4.5.1,4.5.14
2100556	EA_7001_Concentrate_Attachment_1_USEPA_Regulatory_Review, DACO: 4.2.1,4.2.2,4.2.3,4.2.5,4.2.6,4.2.9
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2100558	2005, Racer Concentrate Primary Eye Irritation Study in Rabbits 2005, DACO: 4.2.4
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2124717	2011, Green it Pro Grass and Weed Commercial Concentrate Ammonium Nonanoate DACOs, DACO: 4.1,4.6,4.6.1,4.6.2,4.6.3,4.6.4,4.6.5,4.6.6,4.6.8,4.7,4.7.1,4.7.2,4.7.3,4.7.4,4.7.5,4.7.6,4.8
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2166312	2012, An efficacy trial of potential herbicides for use in organic systems, North Dakota State University Dickinson Research Extension, DACO: 10.2.3.1.
2166313	2012, Morningglory control with ammonium nonanoate by hand pump spray applicators (Study 1), DACO: 10.2.3.2.
2166314	2012, Morningglory control with ammonium nonanoate by hand pump spray applicators (Study 2), DACO: 10.2.3.2.
2166316	2012, 2007 Organic Herbicide Trial, DACO: 10.2.3.3.

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