

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.12 Application

Application Number: 2024-0104
Application: New End-use Product (Product Chemistry) – Guarantee, Identity of Formulants, Proportion of Formulants; New Product Labels- New Site or Host
Applicant: W. Neudorff GMBH KG
Product: Homeplate Non-selective Herbicide
Registration Number: 35717
Active ingredients (a.i.): Capric Acid and Caprylic Acid
PMRA Document Number: 3763661

Purpose of Application

The purpose of this application was to register a new domestic class product, Homeplate Non-selective Herbicide, containing capric and caprylic acid for use within vegetable and flower gardens, landscaped areas, and lawns, in the vicinity of small fruits, vines and fruit trees, and around and on buildings, sidewalks, fences, bark mulch, driveways, patios and gravel.

Chemistry Assessment

Homeplate Non-Selective Herbicide is formulated as an emulsifiable concentrate containing caprylic acid at a concentration of 46.24% and capric acid at a concentration of 33.66%. This end-use product has a density of 0.933 g/mL and a pH of 3.26. The required chemistry data for Homeplate Non-Selective Herbicide have been provided, reviewed and found to be acceptable.

Health Assessments

Homeplate Non-selective Herbicide is considered to be of low acute oral, dermal, and inhalation toxicity, moderately irritating to the eyes, mildly irritating to the skin, and is a dermal sensitizer.

Potential exposure to Homeplate Non-selective Herbicide may occur when applying the end-use product, entering treated sites, or through dietary exposure. Health Canada considers two key factors when assessing health risks: the levels at which no health effects occur and the levels to which people may be exposed.

Exposure to domestic users/homeowners handling Homeplate Non-selective Herbicide is expected to result in acceptable risk when the product is used according to label directions. Precautionary statements on the product label aimed at mitigating domestic users are considered adequate to protect individuals from any potential risk due to exposure.

Bystander exposure is expected to result in acceptable risk when the product is used according to label directions.

Health risks to individuals in residential areas are considered acceptable when the product is used according to label directions.

Maximum Residue Limit

As part of the assessment process prior to the registration of a pesticide, Health Canada must determine whether dietary risks are acceptable from the consumption of foods treated with the pesticide when used according to the supported label directions. If acceptable, this means food containing that amount of residue is safe to eat, and maximum residue limits (MRLs) may be proposed. MRLs are the maximum amount of pesticide residue legally permitted to remain in/on food sold in Canada and are specified under the *Pest Control Products Act* for the purposes of the adulteration provision of the *Food and Drugs Act*.

Homeplate Non-selective Herbicide is not intended to be applied directly to food crops. Dietary risk to humans from the proposed use of caprylic acid and capric acid on agricultural and non-agricultural crops is acceptable due to the low exposure and toxicity profile of caprylic acid and capric acid. Therefore, the specification of MRLs, under the *Pest Control Products Act*, will not be required for caprylic acid and capric acid. Dietary risks are considered acceptable when the product is used according to label directions.

Environmental Assessment

The registration of Homeplate Non-Selective Herbicide for use on labelled crops is within the currently registered use pattern for caprylic and capric acid. The product formulation was reviewed and no environmental issues were identified. Therefore, the environmental risk is acceptable when Homeplate Non-Selective Herbicide is used in accordance with the label, which includes statements to mitigate risks to the environment.

Value Assessment

The availability of non-conventional herbicides, such as Homeplate Non-Selective Herbicide, is advantageous where control of unwanted vegetation is desired within vegetable and flower gardens, landscaped areas, and lawns, in the vicinity of small fruits, vines and fruit trees, and around and on buildings, sidewalks, fences, bark mulch, driveways, patios and gravel and where the use of conventional herbicides is either not desirable or not permitted.

Data from replicated greenhouse and field trials demonstrated that foliar-applied Homeplate Non-Selective Herbicide has herbicidal activity on annual and perennial broadleaf and grassy plant species, as well as sedges, horsetail, woody stemmed plants and grape suckers. Increased concentrations of Homeplate Non-Selective Herbicide and increased application volumes generally resulted in faster burndown and increased levels of weed control. As a non-systemic herbicide, repeat applications were demonstrated to maintain or improve weed control as compared to a single application, regardless of the labelled concentration applied.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of Homeplate Non-selective Herbicide.

References

PMRA

Document

Number

Reference

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3542492	2017, Fireworxx 80 - Acute Inhalation, DACO: 4.6.3
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3542494	2017, Fireworxx 80 - Primary Skin Irritation, DACO: 4.6.5
3542495	2017, Fireworxx 80 - Dermal Sensitization, DACO: 4.6.6
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