

Evaluation Report for Category B, Subcategory 3.14 Application

Application Number: 2023-0391
Application: New Product Labels - Classifications
Product: Magic Garden Caterpillar Killer
Registration Number: 34954
Active ingredient (a.i.): *Bacillus thuringiensis* subsp. *kurstaki* strain ABTS-351
PMRA Document Number : 3496015

Purpose of Application

The purpose of this application was to register Magic Garden Caterpillar Killer, as a domestic class insecticide.

Product Characterization and Analysis

Product guarantee, potency, and physical properties data for five batches of Magic Gardener Caterpillar Killer were provided and found to be acceptable. Microbial contaminant analysis data on the end-use product was considered supplementary as testing is only required for the technical grade active ingredient (TGAI).

Microbial contaminant testing must continue to be conducted on all batches of the TGAI. Testing and release standards must be in compliance with the requirements outlined in the OECD Issue paper on Microbial Contaminant Limits for Microbial Pest Control Products [ENV/JM/MONO(2011)43].

The available information is sufficient to support the domestic use of Magic Gardener Caterpillar Killer as a biological insecticide on vegetables, fruits, boxwood, and ornamental and shade trees.

Health Assessment

No new toxicological information was required for Magic Gardener Caterpillar Killer as it is comparable to the precedent product. The registered uses of Magic Gardener Caterpillar Killer are consistent with the registered uses of the precedent product.

Although the frequency of application is shorter for some pest/crop combinations in comparison to registered uses of the precedent product, no additional occupational, bystander or dietary exposure concerns were identified as the active ingredient in Magic Gardener Caterpillar Killer is not toxic or pathogenic via the oral, pulmonary, intraperitoneal and dermal routes of exposure (see PACR2006-09 *Re-evaluation of Bacillus thuringiensis*).

The label for Magic Gardener Caterpillar Killer instructs users to avoid contact with skin, eyes or clothing and to avoid breathing dust or spray mist. Furthermore, the label instructs users to wear a long-sleeved shirt, long pants, protective eyewear (goggles), waterproof gloves and socks and shoes when handling, mixing/loading or applying the product and during all

clean-up and repair activities.

The available information is sufficient to support the domestic use of Magic Gardener Caterpillar Killer as a biological insecticide on vegetables, fruits, boxwood, and ornamental and shade trees.

Maximum Residue Limit (MRLs)

Bacillus thuringiensis Berliner (which includes Btk strain ABTS-351) is exempt from Section 4(d) of the Food and Drugs Act (FDA) (adulteration of food) as defined under Division 15, Section B.15.002 of the FDA&R. In essence Section B.15.002 allows the level of *Bacillus thuringiensis* Berliner to exceed 0.1 ppm on food/feedstuffs and not be in contravention of the law.

Environmental Assessment

No new environmental fate or environmental toxicology information was required for Magic Gardener Caterpillar Killer as it is comparable to the precedent product. The registered uses of Magic Gardener Caterpillar Killer are consistent with the registered uses of the precedent product.

Although the frequency of application is shorter for some pest/crop combinations in comparison to registered uses of the precedent product, no additional environmental toxicology concerns were identified as the active ingredient in Magic Gardener Caterpillar Killer is not toxic or pathogenic to non-target avian, freshwater fish, freshwater aquatic invertebrates, estuarine and marine animals, arthropod predators/parasites, honeybees, annelids and mammalian wildlife (see PACR2006-09 *Re-evaluation of Bacillus thuringiensis*).

The label includes standard environmental precautions to minimize non-target exposure.

The available information is sufficient to support the domestic use of Magic Gardener Caterpillar Killer as a biological insecticide on vegetables, fruits, boxwood, and ornamental and shade trees.

Value Assessment

Support for Magic Gardener Caterpillar Killer was based on extrapolation from registered claims on the precedent product label. As the Magic Gardener Caterpillar Killer uses on labelled pests and respective crops are the same as for the precedent product, Magic Garden Caterpillar Killer is expected to provide a similar level of control, with the application rates adjusted and spray volumes specified to ensure equivalency. Labelled pest species, including some invasive pests, are well known pests of these crops and can lead to the destruction of many of them. Magic Garden Caterpillar Killer has value as it provides a domestic-class product for homeowners to use to control these pests.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information acceptable to register Magic Garden Caterpillar Killer.

References

PMRA Document Number	Reference
3431727	2023, M2.4 Trade names for TGAI for Magic Gardener Caterpillar Killer, DACO: M2.4
3431728	2016, M2.8 M2.10.2 Bio burden analysis of dipel DF, DACO: M2.10.2,M2.8
3431730	2021, M2.9.2 Background on Slurry Lots Under New Manufacturing Plant, DACO: M2.9.2
3431731	2023, Value Waiver Rationale, DACO: M10.0

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