

Evaluation Report for Category B, Subcategories 2.1, 2.5, 3.12 Application

Application Number: 2017-4483
Application: New EP Product Chemistry - Guarantee and Formulation Type;
New Product Labels - New Site or Host
Product: EthylBloc Sachet
Registration Number: 33215
Active ingredient (a.i.): 1-methylcyclopropene
PMRA Document Number : 2848232

Purpose of Application

The purpose of this application was to register an end-use product for use in plant preservation in ornamentals.

Chemistry Assessment

EthylBloc Sachet is formulated as an emulsifiable concentrate containing 1-methylcyclopropene at a concentration of 0.014%. This end-use product has a density of 0.65-0.68 g/mL and pH of 6.11. The required chemistry data for EthylBloc Sachet have been provided, reviewed and found to be acceptable.

Health Assessments

EthylBloc Sachet is of low acute toxicity by the oral, dermal, and inhalation routes, is practically non-irritating to minimally irritating to the eye, not irritating to the skin, and is not a dermal sensitizer.

Occupational exposure to individuals handling EthylBloc Sachet is not expected to result in health risks of concern when the product is used according to label directions. Precautionary and personal protective equipment statements on the product label aimed at mitigating worker exposure are considered adequate to protect individuals from any potential risk due to occupational exposure.

Bystander and residential exposure is not expected to result in health risks of concern when the product is used according to label directions.

A dietary exposure assessment was not required for this application.

Environmental Assessment

EthylBloc Sachet is used as a powder in a package that, once wetted, is placed inside flower boxes and shipping boxes. The potential for exposure to the environment is minimal. An environmental risk assessment was not required.

Value Assessment

EthylBloc Sachet is the first product expected to provide the floral and nursery industries a means of extending the marketability and useful life of many species of flowering and ornamental plants when treated in enclosed small flower boxes and shipping boxes or containers.

Value information submitted for review consisted of multiple studies conducted in Canada, the United States, and the Netherlands, precedent registrations in both Canada and the United States, and scientific rationales. This information demonstrated that the application of EthylBloc Sachet as per the label instructions can be expected to improve overall quality of many fresh cut flowers and potted flowers, bedding, nursery, and foliage plants by preventing or reducing premature flower death, leaf and/or flower fall, and leaf yellowing.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of EthylBloc Sachet.

References

PMRA Document Number	Reference
2797596	2017, Formulating Plant's Name And Address, DACO: 3.1.1,3.1.2,3.1.3,3.1.4 CBI
2797597	2017, Description Of Starting Materials, DACO: 3.2.1,3.2.2 CBI
2797598	2017, Establishing Certified Limits, DACO: 3.3.1 CBI
2797599	2017, Enforcement Analytical Method, DACO: 3.4.1 CBI
2797600	2017, Odour, DACO: 3.5.1,3.5.2,3.5.3 CBI
2797601	2010, Storage Stability Data, DACO: 3.5.10 CBI
2797602	2017, Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
2797603	2003, Corrosion Characteristics, DACO: 3.5.10,3.5.14 CBI
2797604	2017, Flammability, DACO: 3.5.11 CBI
2797605	2017, Explodability, DACO: 3.5.12 CBI
2797606	2017, Explodability, DACO: 3.5.12 CBI
2797607	2017, Miscibility, DACO: 3.5.13 CBI
2797608	2017, Dielectric Breakdown Voltage, DACO: 3.5.15 CBI
2797609	2017, Container Material And Description, DACO: 3.5.5 CBI
2797610	2017, Density Or Specific Gravity, DACO: 3.5.6 CBI
2797611	2017, pH, DACO: 3.5.7 CBI
2797612	2017, Oxidizing Or Reducing Action (Chemical Incompatibility), DACO: 3.5.8 CBI
2797613	2017, Viscosity, DACO: 3.5.9 CBI
2819905	2007, Enforcement Analytical Method, DACO: 3.4.1 CBI
2797614	2017, Toxicology Summary, DACO: 4.1

PMRA Document Number	Reference
2797615	2017, EthylBloc ^(TM) Sachet 0.014% Powder: Acute Oral Toxicity Up And Down Procedure In Rats, DACO: 4.6.1
2797616	2017, Acute Dermal Toxicity Study in Rats, DACO: 4.6.2
2797617	2017, Acute Inhalation Toxicity Study in Rats, DACO: 4.6.3
2797619	2017, EthylBloc ^(TM) Sachet 0.014% Powder: Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2797620	2017, Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
2797621	2017, Local Lymph Node Assay (LLNA) in Mice, DACO: 4.6.6
2797622	2017, AgroFresh Formulation AF10016 "In-Box" Application: Risk Assessment for Inhalation Exposure to 1-Methylcyclopropene (1-MCP) During Treatment and Storage of Flower Boxes, DACO: 5.2
2797623	2017, Use Description Scenario (Application and Post-application), DACO: 5.2
2797586	2016, Prolonging vase life of <i>Phalaenopsis</i> , DACO: 10.2.3.2(E)
2797587	2006, Potential of EthylBloc to extend longevity of cut rose and lily flowers, DACO: 10.2.3.2(E)
2797588	2013, 2013 flower trials with 1-MCP, DACO: 10.2.3.2(E)
2797589	2014, 2014 flower trials with 1-MCP, DACO: 10.2.3.2(E)
2797590	2017, Prolonging vase life of carnation, DACO: 10.2.3.2(E) and 10.3.2
2797591	2017, Prolonging vase life of carnation, DACO: 10.2.3.2(E) and 10.3.2
2797592	2017, Prolonging vase life of carnation, DACO: 10.2.3.2(E) and 10.3.2

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