

Evaluation Report for Category B, Subcategory 2.3, 2.4 and 3.1 Application

Application Number: 2015-3330
Application: New end-use product chemistry: identity and proportion of
formulants
New product labels: application rate increase or decrease
Product: Escar-GO 5
Registration Number: 32484
Active ingredients (a.i.): Metaldehyde
PMRA Document Number: 2677803

Purpose of Application

The purpose of this submission was to register the new end-use product, Escar-GO 5, containing the active ingredient metaldehyde.

Chemistry Assessment

Escar-GO 5 is formulated as a pellet containing metaldehyde at a nominal concentration of 5%. This end-use product has a density of 0.8409 to 0.8412 g/mL and pH of 6.88. The required chemistry data for Escar-GO 5 have been provided, reviewed and found to be acceptable.

Health Assessments

Escar-GO 5 is of low toxicity to rats via the oral and dermal routes. Due to the physical form and the low likelihood of respirable particles being generated under normal conditions of use, Escar-GO 5 is unlikely to pose an acute inhalation hazard. It is minimally irritating to the eye and non-irritating to the skin of rabbits. It is not expected to be a dermal sensitizer in mice. Escar-GO 5 was found to be negative in the bacterial reverse mutation assay.

The use of Escar-GO 5 on residential gardens is not expected to result in potential homeowner or bystander exposure over the current registered use of metaldehyde. No risks of concern are expected when users follow label directions.

Environmental Assessment

Although the amount of metaldehyde applied with Escar-GO 5 would be greater than that from applications of a registered precedent, exposure to non-target organisms of environmental concern would be negligible under a domestic use scenario and with label directions for covering pellets once applied to soil or mulch.

Value Assessment

Based on extrapolation from a precedent product and the results of six trials, Escar-GO 5 was supported to attract and kill slugs and snails at a rate of 20 mL product/ha on cole crops, leafy greens, lettuce, tomatoes, strawberries, blueberries and other berries with a 14 day re-application interval and a maximum of three applications per year, or, on ornamentals, with a 21 day re-application interval and a maximum of six applications per year.

Conclusion

PMRA has reviewed the information provided in support of this product. Based on the results of this review, the product is acceptable for full registration.

References

PMRA Document Number	Reference
2553449	2011, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553451	2011, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553456	2012, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for a Granular Bait Formulation containing 5% Metaldehyde Stored at 35C for 12 weeks with associated validation, in compliance with Good Laboratory Practice., DACO: 3.3.1, 3.4.1, 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.2, 3.5.3, 3.5.6, 3.5.7, 3.5.8, 3.7 CBI
2553447	2012, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553448	2012, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553450	2012, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553452	2013, Analysis of Granular Bait Formulation containing 5% Metaldehyde, in compliance with Good Laboratory Practice, DACO: 3.3.1 CBI
2553455	2013, Determination of Physico-Chemical Studies including Storage Stability and Shelf Life Specification Data for a Granular Bait Formulation containing 5% Metaldehyde stored at 35C for 12 weeks with associated validation, in compliance with Good Laboratory Practice, DACO: 3.3.1, 3.4.1, 3.5.1, 3.5.10, 3.5.2, 3.5.3, 3.5.7, 3.7 CBI
2553446	2013, MSDS for [CBI removed], DACO: 3.2.1 CBI
2553454	2013, Theoretical Certificate of Explosive Properties for a Granular Bait Formulation Containing 5% Metaldehyde, DACO: 3.3.1 CBI
2553453	2014, Analysis of Granular Bait Formulation containing 5% Metaldehyde, in compliance with Good Laboratory Practice, DACO: 3.3.1 CBI
2553457	2014, Determination of Storage Stability and Shelf Life Specification Data for a Granular Bait Formulation containing 5% Metaldehyde Stored at ambient temperature for 2 years, in Compliance with Good Laboratory Practice., DACO: 3.2.3, 3.3.1, 3.4.1, 3.4.2, 3.5.1, 3.5.10, 3.5.2, 3.5.3, 3.5.7, 3.7 CBI
2553459	2015, Additional Product Chemistry for Sharda Metaldehyde 5% GB, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.5.13, 3.5.14, 3.5.15, 3.5.4, 3.5.5, 3.5.9 CBI
2553460	2015, Additional Product Chemistry for Sharda Metaldehyde 5% GB, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.5.13, 3.5.14, 3.5.15, 3.5.4, 3.5.5, 3.5.9 CBI
2553458	2015, Manufacturing Process for Sharda Metaldehyde 3% GB and Sharda Metaldehyde 5% GB, DACO: 3.2.1, 3.2.2, 3.3.1 CBI
2609722	2012, Metaldehyde 5% GB: Reverse Mutation Assay "Ames Test" Using Salmonella Typhimurium and Escherichia Coli, DACO: 4.5.4
2609723	2012, Metaldehyde 5% GB: Acute Oral Toxicity in the Rat – Acute Toxic Class Method, DACO: 4.6.1
2609724	2012, Metaldehyde 5% GB: Acute Dermal Toxicity (Limit test) in the Rat, DACO: 4.6.2
2609725	2012, Metaldehyde 5% GB: Acute Eye Irritation in the Rabbit, DACO: 4.6.4
2609726	2012, Metaldehyde 5% GB: Acute Dermal Irritation in the Rabbit, DACO: 4.6.5
2609727	2012, Metaldehyde 5% GB: Local Lymph Node Assay in the Mouse, DACO: 4.6.6
2609728	2016, Metaldehyde 5% GB - Acute inhalation toxicity waiver, DACO: 4.6.3

2409268	United States Environmental Protection Agency, 2012, Standard Operating Procedures for Residential Pesticide Exposure Assessment, DACO: 12.5.5
1563628	1999, Outdoor Residential Pesticide Use and Usage Survey and National Gardening Association Survey. Vol 1 of 2, DACO: 5.2
1563634	1999, Outdoor Residential Pesticide Use and Usage Survey and National Gardening Association Survey. Vol 2 of 2, DACO: 5.2
2553382	2015, Scientific Rationale and Summary for Value for Sharda Metaldehyde 3 GB and Sharda Metaldehyde 5% GB, DACO: 10.1,10.2.1,10.2.3.1,10.2.3.3,10.3.2
2553383	2015, Excel Summary Table for Value for Sharda Metaldehyde 3 GB and Sharda Metaldehyde 5% GB, DACO: 10.1,10.2.1,10.2.3.1,10.2.3.3,10.3.2
2553389	2013, Efficacy of Metaldehyde 1.5%, 3% and 5% GR against snails in cages, DACO: 10.2.3.3,10.3.2
2553390	2014, Efficacy of Metaldehyde 1.5%, 3% and 5% GR against slugs in cages, DACO: 10.2.3.3,10.3.2
2553391	2014, Efficacy of Metaldehyde 1.5%, 3% and 5% GR against snails in cages, DACO: 10.2.3.3,10.3.2
2553393	2014, Efficacy of Metaldehyde 1.5%, 3% and 5% GR against snails in lettuce, DACO: 10.2.3.3,10.3.2
2553394	2014, Efficacy of Metaldehyde 1.5%, 3% and 5% GR against slugs in Lettuce, DACO: 10.2.3.3,10.3.2

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