

Evaluation Report for Category B, Subcategory 2.6, 3.4 Application

Application Number: 2013-4132
Application: New EP Product Chemistry – New Combination of TGAIs
New Product Labels – Application Method
Product: Raid Mosquito and Fly Killer 2
Registration Number: 31995
Active ingredients (a.i.): Prallethrin and d-phenothrin
PMRA Document Number: 2555945

Purpose of Application

The purpose of this application was to register a household insecticide, Raid Mosquito and Fly Killer 2, containing the active ingredients prallethrin and d-phenothrin.

Chemistry Assessment

Raid Mosquito and Fly Killer 2 is formulated as a pressurized product containing d-phenothrin at a nominal concentration of 0.125% and prallethrin at a nominal concentration of 0.1%. This end-use product has a density of 0.954 g/mL and pH of 6.34. The chemistry requirements for this product have been fulfilled.

Health Assessments

A food exposure assessment was not required for this application.

Raid Mosquito and Fly Killer 2 is of low acute toxicity via the oral, dermal and inhalation routes. It is mildly irritating to the eye, slightly irritating to the skin and is not a dermal sensitizer.

Homeowner applicator (dermal and inhalation), post-application (dermal and inhalation), and oral (children only) exposures of adults, youth, and children from the use of Raid Mosquito and Fly Killer 2, as an indoor space spray were assessed. No risks of concern are expected from this use when following the directions, precautions, and restrictions on the label.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

The provided two laboratory trials supported the indoor use of Raid Mosquito and Fly Killer 2 as a space spray to knockdown and kill house flies and mosquitoes.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and is able to support the registration of Raid Mosquito and Fly Killer 2, containing prallethrin and d-phenothrin.

References

A. Information Submitted by the Applicant

PMRA Document Number	References
2330848	2013, Applicant's Name and Office Address, DACO: 3.1.1 CBI
2330849	2013, Formulating Plant's Name and Address, DACO: 3.1.2 CBI
2330850	2013, Trade Name, DACO: 3.1.3 CBI
2330851	2013, Other Names, DACO: 3.1.4 CBI
2330852	2013, Description of Starting Material, DACO: 3.2.1
2330854	2013, Description of the Formulation Process, DACO: 3.2.2
2330856	2013, Description of the Formation of Impurities of Toxicological Concern, DACO: 3.2.3
2330858	2013, Control Product Specification Forms, DACO: 3.3.1 CBI
2330859	2013, Enforcement Analytical Method, DACO: 3.4.1
2330861	2013, Enforcement Analytical Method – Validation, DACO: 3.4.1
2330863	2013, Impurities of Toxicological Concern, DACO: 3.4.2 CBI
2330864	2013, Colour, DACO: 3.5.1 CBI
2330865	2013, Physical state at room temperature, DACO: 3.5.2 CBI
2330866	2013, Odour, DACO: 3.5.3 CBI
2330867	2013, Formulation Type, DACO: 3.5.4 CBI
2330868	2013, Container Material and Description, DACO: 3.5.5 CBI
2330869	2013, Density and Specific gravity, DACO: 3.5.6 CBI
2330870	2013, pH, DACO: 3.5.7 CBI
2330871	2013, Oxidation/Reduction, DACO: 3.5.8 CBI
2330872	2013, Viscosity, DACO: 3.5.9 CBI
2330873	2013, Storage Stability Data, DACO: 3.5.10
2330875	2013, Flammability Data, DACO: 3.5.11
2330878	2013, Explodability, DACO: 3.5.12 CBI
2330879	2013, Miscibility, DACO: 3.5.13 CBI
2330880	2013, Corrosion Characteristics included in Storage Stability Report under 3.4.10, DACO: 3.5.14 CBI
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2343828	2010, Physical and Chemical Characteristics: Oxidation/Reduction, pH and Viscosity, DACO: 3.5 CBI
2343829	2009, Group B – Product Chemistry Analysis of H6A-US, DACO: 3.5 CBI
2330882	2013, 4.1 Toxicology Summary, DACO: 4.1
2330888	2009, Acute Oral Toxicity Up and Down Procedure in Rats, DACO: 4.6.1
2330890	2009, Acute Dermal Toxicity Study in Rats - Limit Test, DACO: 4.6.2
2330891	2009, Acute Inhalation Toxicity Study in Rats - Limit Test, DACO: 4.6.3
2330892	2009, Primary Eye Irritation Study in Rabbits, DACO: 4.6.4
2330893	2009, Primary Skin Irritation Study in Rabbits, DACO: 4.6.5
2330894	2009, Dermal Sensitization Study in Guinea Pigs (Buehler Method), DACO: 4.6.6

2330883 2013, Evaluation of Potential Human Health Risks Associated with Residential use of Prallethrin (ETOCC) as an Indoor Space or Surface Spray, DACO: 5.2,5.3

2330887 2013, Dermal Absorption, DACO: 5.8

2492172 2013, Use Description/Scenario (Application and Post Application), DACO: 5.2

2492173 2014, Raid House & Indoor Garden Bug Killer, DACO: 5.2

2492174 2015, Post-Application – Passive Dosimetry and Biological Monitoring, DACO: 5.6

2492175 2014, In Vivo Dermal Absorption Study, DACO: 5.8

2492177 2015, Other Studies, DACO: 5.14

2492178 2014, Evaluation of Potential Human Health Risks Associated with Residential use of Prallethrin (ETOC) as an Indoor Space or Surface Spray, DACO: 5.14

2492179 2015, Dislodgeable or Transferable Residue, DACO: 5.9

2334255 2006, ETOC: In Vitro Absorption from A 1% ETOC Formulation Through Human Epidermis, JV1896/Regulatory/Report, DACO: 5.8

2330823 2013, Value Summary, DACO: 10.1

2330824 2013, Mode of Action, DACO: 10.2.1

2330825 2013, Description of the Pest Problem, DACO: 10.2.2

2330826 2013, Efficacy Summary, DACO: 10.2.3.1

2330827 2009, Efficacy of H6A-US against Houseflies in the Laboratory, DACO: 10.2.3.2

2330828 2009, Residual Efficacy of H6A-US against Houseflies in the Laboratory, DACO: 10.2.3.2

2330829 2009, Residual Efficacy of H6A-US against Mosquitoes in the Laboratory, DACO: 10.2.3.2

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2330831 2009, Efficacy of H6A-US against Cockroaches in the Laboratory, DACO: 10.2.3.2

2330832 2009, Residual Efficacy of H6A-US against Mosquitoes in the Laboratory, DACO: 10.2.3.2

2330833 2009, Efficacy of H6A-US against Various Arthropods in the Laboratory, DACO: 10.2.3.2

2330834 2009, 2009, Efficacy of H6A-US against Various Arthropods in the Laboratory, DACO: 10.2.3.2

2330835 2009, Efficacy of H6A-US against Houseflies in the Laboratory, DACO: 10.2.3.2

2330836 2009, Efficacy of H6A-US against Paper Wasps, hornets and Yellow Jackets in the Laboratory, DACO: 10.2.3.2

2330837 2009, Efficacy of H6A-US against Cat Fleas in the Laboratory, DACO: 10.2.3.2

2330838 2009, Efficacy of H6A-EU against Small Moths in the Laboratory, DACO: 10.2.3.2

2330840 2010, Efficacy of H6A, Lab Book #43058 and H7A-US, Batch #608D2 When Applied as Direct Spray Applications to Red Fruit Flies (*Drosophila melanogaster*), DACO: 10.2.3.2

2330845 2013, Adverse Effects on Use Site – Summaries, DACO: 10.3.1

2330846 2013, Non-safety Adverse Effects, DACO: 10.3.2

B. Additional Information Considered

i) Published Information

2409268 U.S. EPA (2012). Standard Operating Procedures for Residential Pesticide Exposure Assessment. EPA: Washington, DC. October 2012.

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