

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

Application Number: 2015-0525

Application: New end-use product chemistry: Guarantee, identity and proportion

of formulants

Product: Sharda Deltamethrin 2.5 % EC Eastern Insecticide

Registration Number: 32446

Active ingredients (a.i.): Deltamethrin PMRA Document Number: 2686372

Purpose of Application

The purpose of this applications was to register the commercial class end-use product, Sharda Deltamethrin 2.5 % EC Eastern Insecticide (guarantee: 25 g /L deltamethrin), for use to control a variety of insect pests on terrestrial food and feed crops, greenhouse non-food crops, shelterbelts, rangeland, pastures and roadsides in British Columbia and in the eastern regions of Canada only.

Chemistry Assessment

Sharda Deltamethrin 2.5 % EC Eastern Insecticide is formulated as an emulsifiable concentrate containing deltamethrin at a nominal concentration of 25 g/L. This end-use product has a density of 0.8891 g/mL and pH of 6-7. The chemistry requirements for this product have been fulfilled.

Health Assessments

Sharda Deltamethrin 2.5% EC Eastern Insecticide is considered to be of moderate acute toxicity to rats via the oral route, and of low acute toxicity to rats via the dermal and inhalation routes. It is moderately irritating to the eye and mildly irritating to the skin of rabbits. It is a dermal sensitizer in guinea pigs.

The use of the end-use product Sharda Deltamethrin 2.5% EC Eastern Insecticide on labeled crops is not expected to result in potential occupational or bystander exposure over the currently registered use of deltamethrin. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

No new residue data were submitted in support of the registration of the end-use product Sharda Deltamethrin 2.5% EC Eastern Insecticide. The use pattern of Sharda Deltamethrin 2.5% EC Eastern Insecticide was determined to be identical to that of two currently registered products. Therefore, the previously reviewed data was reassessed in the framework of the current application and confirmed that the use of Sharda Deltamethrin 2.5% EC Eastern Insecticide is not expected to result in an increase in the magnitude of deltamethrin residues in/on the treated crops. Therefore, the use of Sharda Deltamethrin 2.5% EC Eastern Insecticide



will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

No environmental concerns were identified as the proposed application rates for Sharda Deltamethrin 2.5% EC Eastern Insecticide are identical to two currently registered end-use products.

Value Assessment

The use pattern of Sharda Deltamethrin 2.5 % EC Eastern Insecticide is consistent with that of a currently registered product and the formulations of the two products are similar enough that efficacy is expected to be comparable.

Conclusion

The PMRA has completed a review of all available information in support of Sharda Deltamethrin 2.5% EC Eastern Insecticide, and found it sufficient to support registration.

References - List of Studies/Information Submitted by Registrant

PMRA Document	Reference
Number	
2501060	2015, Scientific Rationale for Value for Sharda Deltamethrin 2.5 % EC Insecticide, DACO: 10.2.3.1, 10.3.2
2501037	2008, Determination of Storage Stability and Shelf Life Specification Data for an
	Emulsifiable Concentrate Formulation Containing 2.5% Deltamethrin Stored at
	54 C for 14 Days, DACO: 3.5.1, 3.5.10, 3.5.11, 3.5.12, 3.5.14, 3.5.2, 3.5.3, 3.5.6,
2501020	3.5.7, 3.5.8, 3.5.9 CBI
2501038	2011, Partial Validation of the Method of Determination for Deltamethrin in Formulated Materials, DACO: 3.4.1 CBI
2501039	2011, Partial Validation of the Method of Determination for Deltamethrin in Formulated Materials, DACO: 3.4.1 CBI
2501040	2011, Partial Validation of the Method of Determination for Deltamethrin in Formulated Materials, DACO: 3.4.1 CBI
2501041	2014, Description of Formulation Process for Deltamethrin 2.5% EC, DACO: 3.2.1, 3.2.2, 3.3.1 CBI
2501048	2015, Additional Product Chemistry for Sharda Deltamethrin 2.5 % EC, DACO:
	3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.3, 3.4.2, 3.5.13, 3.5.15, 3.5.4, 3.5.5
2501049	2015, Additional Product Chemistry for Sharda Deltamethrin 2.5 % EC, DACO:
2544296	3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.2.3, 3.4.2, 3.5.13, 3.5.15, 3.5.4, 3.5.5 CBI 2010, Determiniation of Storage Stability and Shelf Life Specification Data for an
2344290	Emulsifiable Concentrate Formulation Containing Deltamethrin 2.5% Stored at
	Ambient Temperature for 2 Years, in Compliance with Good Laboratory Practice,
	DACO: 3.5.10, 3.5.14, 3.5.7 CBI
2544297	2010, Determiniation of Storage Stability and Shelf Life Specification Data for an
	Emulsifiable Concentrate Formulation Containing Deltamethrin 2.5% Stored at
	Ambient Temperature for 2 Years, in Compliance with Good Laboratory Practice,
2544200	DACO: 3.5.1, 3.5.10, 3.5.14, 3.5.2, 3.5.3, 3.5.7 CBI
2544298	2008, Determiniation of Storage Stability and Shelf Life Specification Data for an
	Emulsifiable Concentrate Formulation Containing Deltamethrin 2.5% Stored at 54C +/-2C for 14 Days, in Compliance with Good Laboratory Practice, DACO:
	3.5.10, 3.5.11, 3.5.12, 3.5.14, 3.5.7, 3.5.9 CBI
2544299	2010, Determiniation of Storage Stability and Shelf Life Specification Data for an
	Emulsifiable Concentrate Formulation Containing Deltamethrin 2.5% Stored at
	54C +/-2C for 14 Days, in Compliance with Good Laboratory Practice, DACO:
	3.5.10, 3.5.11, 3.5.12, 3.5.14, 3.5.7, 3.5.9 CBI
2545004	2011, Deltamethrin 2.5% EC: Determination of the Accelerated Storage Stability
0501040	and Corrosion Characteristics, DACO: 3.5.10, 3.5.14 CBI
2501042	2008, Acute Oral Toxicity Study in Rats with Deltamethrin EC, DACO: 4.6.1
2501043	2008, Acute Dermal Toxicity Study in Rats with Deltamethrin EC, DACO: 4.6.2
2501044	2008, Acute Inhalation Toxicity Study in Rats with Deltamethrin EC, DACO: 4.6.3
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2501045	2008, Acute Eye Irritation/Corrosion Study in Rats with Deltamethrin EC,
	DACO: 4.6.4
2501046	2008, Acute Dermal Irritation/Corrosion Study in Rats with Deltamethrin EC,
	DACO: 4.6.5
2501047	2008, Contact Hypersensitivity in Albino Guinea Pigs Maximization Test with
	Deltamethrin EC, DACO: 4.6.6

References - Additional Information Considered

PMRA	Reference
Document	
Number	
2115788	Agricultural Reentry Task Force (ARTF). 2008. Data Submitted by the ARTF to
	Support Revision of Agricultural Transfer Coefficients. Submission #2006-
	0257.

ISSN: 1911-8082

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