

Evaluation Report for Category B, Subcategory 4.6 Application

Application Number: 2013-5972
Application: Conversion submission to fulfill conditions of registration on a product with full registration
Product: MGK 264 Insecticide Synergist
Registration Number: 18524
Active ingredients (a.i.): N-octyl bicycloheptene dicarboximide
PMRA Document Number : 2453010

Purpose of Application

The purpose of this application was to fulfill the conditions of registration for MGK 264 Insecticide Synergist.

Chemistry Assessment

Common Name: There is no ISO common name for this substance; N-octylbicycloheptene dicarboximide is the accepted name in Canada.

IUPAC Chemical Name: (3aE,4E,7E,7aE)-2-[(2E)-2-ethylhexyl]-3a,4,7,7a-tetrahydro-4,7-methano-1H-isoindole-1,3(2H)-dione
 OR
 N-(2-ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
 OR
 N-(2-ethylhexyl)bicyclo[2.2.1]hept-5-ene-2,3-dicarboximide

CAS Chemical Name: 2-(2-ethylhexyl)-3a,4,7,7a-tetrahydro-4,7-methano-1H-isoindole-1,3(2H)-dione

MGK 264 Insecticide Synergist has the following properties:

Property	Result
Colour and physical state	Clear liquid
Nominal concentration	95.72%
Odour	Mild sweet odor characteristic of aromatic compounds.
Density at 20°C	1.049 g/ mL
Vapour pressure at 25°C	2.4 mPa

Property	Result
pH	6.8-7.2 (10% solution)
Solubility in water	Practically insoluble in water
n-Octanol/water partition coefficient	Log K _{ow} = 3.61 (<i>cis</i> - isomer); 3.80 (<i>trans</i> - isomer)

The chemistry requirements for MGK 264 Insecticide Synergist have been fulfilled.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product MGK 264 Insecticide Synergist and has found the information sufficient to fulfill the conditions of registration.

References

PMRA Document Number	References
2358205	2010, Preliminary Analysis of Technical MGK-264 Insecticide Synergist, DACO: 2.13.3 CBI
2360996	2013, Chemistry Requirements for the Registration of Technical Grade Active Ingredients, DACO: 2.2 CBI
2450362	2014, Certificate of Analysis/PQR for Starting Material [CBI REMOVED], DACO: 2.11.2 CBI
2450363	2014, Certificate of Analysis for [CBI REMOVED], DACO: 2.11.2 CBI
2450364	2013, Certificate of Analysis for [CBI REMOVED], DACO: 2.11.2 CBI
2450365	2014, Summary of Manufacturing Process for MGK 264 Insecticide Synergist, DACO: 2.11.3 CBI

ISSN: 1911-8082

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