

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2010-5230
Application: B.1.3-Changes to TGAI Product Chemistry-Specifications
Product: Thor Acticide LG Technical
Registration Number: 26252
Active ingredients (a.i.): 2-methyl-4-isothiazolin-3-one (ISL)
5-chloro-2-methyl-4-isothiazolin-3-one (IST)
PMRA Document Number: 2045200

Purpose of Application

The purpose of this application was to add a new formulation of Thor Acticide LG Technical (PCP Reg. No. 26252) containing the active ingredients, 2-methyl-4-isothiazolin-3-one (CIT) and 5-chloro-2-methyl-4-isothiazolin-3-one (MIT).

Chemistry Assessment

Common names: CIT and MIT

Chemical names: 5-chloro-2-methyl-4-isothiazolin-3-one (CIT)
2-methyl-4-isothiazolin-3-one (MIT)

Thor Acticide LG Technical has the following properties:

Property	Results
Colour and physical state	Colourless to light yellow liquid
Nominal concentration	1.11 % CIT, 0.37 % MIT
Odour	Pungent aromatic odour
Density	1.015-1.035 g/mL
Vapour pressure	2.77 kPa
pH	3.5
Solubility in water	Aqueous solution
n-Octanol/water partition coefficient	Log Kow: -0.71 for MIT and 0.75 for CIT

The chemistry requirements for Thor Acticide LG Technical have been completed.

Health Assessments

The proposed change in formulation is not expected to alter the toxicological profile of the product.

Food exposure and occupational exposure assessments were not required for this application.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to add a new formulation of Thor Acticide LG Technical.

References

PMRA Number	Document Title
1975098	2010, Chemistry-2.1-2.9-Acticide LG-alternate stabilizer, DACO: 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9
1975099	2010, Chemistry-2.11.2-2.11.4-Acticide LG-alternate stabilizer, DACO: 2.11.2, 2.11.4 CBI
1975100	2010, Chemistry-2.11.1,3-Acticide LG Mfg Process-23june2010, DACO: 2.11.1, 2.11.3 CBI
1975103	2008, ACT LG_191426-complete-5batch-1, DACO: 2.13.3 CBI
1975104	2008, ACT LG_194656-complete-5batch-2, DACO: 2.13.3 CBI
1975105	2008, ACT LG_197688-complete-5batch-3, DACO: 2.13.3 CBI
1975106	2008, ACT LG_198699-complete-5batch-4, DACO: 2.13.3 CBI
1975107	2008, ACT LG_199862-complete-5batch-5, DACO: 2.13.3 CBI
1975108	2010, THOR ACTICIDE LG TGAI-Formulation #2 PCP26252 Chemical and Physical Properties THOR ACTICIDE LG TGAI-Formulation #2 PCP26252 Chemical and Physical Properties, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.
2038630	2010, Product Specifications, DACO: 2.11.2 CBI
2038632	2009, Product Specifications, DACO: 2.11.2 CBI
2038635	2011, MANUFACTURING PROCESS ACTICIDE LG, DACO: 2.11.3 CBI
2038637	2011, Certificate of analysis-ACTICIDE MV, DACO: 2.13.3 CBI
2038639	2011, Certificate of analysis-ACTICIDE MV, DACO: 2.13.3 CBI
2038641	2011, Certificate of analysis-ACTICIDE MV, DACO: 2.13.3 CBI
2038643	2011, Certificate of analysis-ACTICIDE MV, DACO: 2.13.3 CBI
2038645	2011, Certificate of analysis-ACTICIDE MV, DACO: 2.13.3 CBI
2038647	2011, Chromatograms-ACTICIDE MV, DACO: 2.13.3 CBI

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