

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2005-4346
Application: Category B, subcategory 1.3 (Specification Amendment)
Product: Thor Acticide 14 (Technical)
Registration Number: 26253
Active ingredients (a.i.): 2-Methyl-4-isothiazolin-3-one at 3.5%
5-Chloro-2-methyl-4-isothiazolin-3-one at 10.6%
PMRA Document Number: 1402948

Background

The original source of this technical grade active ingredient, "Thor Acticide 14 (Technical)" (Reg. No. 26253) was first registered in 2000.

Purpose of Application

The purpose of this Category B.1.3 submission is to change the specifications of the TGAI. This technical grade active ingredient "Thor Acticide 14 (Technical)" (Reg. No. 26253) is intended for use in the manufacturing, formulating and repacking. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Chemistry Assessment

Common Name: None
IUPAC Chemical Name: 2-Methylisothiazol-3(2H)-one
5-Chloro-2-methylisothiazol-3(2H)-one
CAS Chemical Name: 2-Methyl-3(2H)-isothiazolone
5-Chloro-2-methyl-3(2H)-isothiazolone

Thor Acticide 14 (Technical) has the following properties:

Property	Result
Colour and physical state	yellow liquid
Nominal concentration	3.5% of 2-methylisothiazol-3(2H)-one as determined by HPLC 10.6% of 5-chloro-2-methylisothiazol-3(2H)-one as determined by HPLC
Odour	mild
Density	1.15 g/mL at 20°C
Vapour pressure	n/a
pH	2.55
Solubility in water	miscible in water
n-Octanol/water partition coefficient	Log K _{ow} = 0.71-0.75 (pH 2.55)

The chemistry requirements for Thor Acticide 14 (Technical) have been completed.

Health and Environmental Assessment

Health and environmental assessment is not required.

Value assessment

A value assessment is not required for technical grade active ingredient products.

Conclusions

The PMRA has completed an evaluation of the subject application and has determined the information sufficient to amend the specifications of Thor Acticide 14 (Technical).

References

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| 1110840 | 2005, Manufacturing Process, Thor GmbH, NS, MRID: NS, DACO: 2.11.1,2.11.3 |
| 1110841 | 2005, Batch Data, Thor GmbH, NS, MRID: NS, DACO: 2.13.3 |
| 1244161 | 1997, Determination of acetic acid in Acticide 14, Thor GmbH, NS, DACO: 2.13.3 |

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