



Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2017-1716
Application: Changes to TGAI chemistry specifications.
Product: Chlorfenapyr Technical Insecticide
Registration Number: 30664
Active ingredients (a.i.): Chlorfenapyr
PMRA Document Number: 2808955

Purpose of Application

The purpose of this application was to amend the manufacturing process for Chlorfenapyr Technical Insecticide.

Chemistry Assessment

Common Name: Chlorfenapyr
IUPAC* Chemical Name: 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethyl-1*H*-pyrrole-3-carbonitrile
CAS† Chemical Name: 4-bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1*H*-pyrrole-3-carbonitrile

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Chlorfenapyr has the following properties:

Property	Result
Colour and physical state	pale yellow powder
Nominal concentration	97.1%
Odour	odourless
Density	1.6 g/cm
Vapour pressure	5.40 x 10 ⁻⁶ Pa (estimated at 25°C)
pH	7.16 (1% solution in water)
Solubility in water	0.14 mg/L at 20°C

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = 5.24$

The required chemistry data for Chlorfenapyr Technical Insecticide have been provided, reviewed, and found to be acceptable.

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, and has found the information sufficient to support the amended manufacturing process for Chlorfenapyr Technical Insecticide.

References

PMRA

Document

Number

Reference

2747904

2016, Chlorfenapyr TGAI Description of the Manufacturing Process, DACO: 2.11.1, 2.11.3 CBI

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2018

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.