

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2017-0380
Application: B.1.2: New Source New Registrant
Product: Clomazone Technical
Registration Number: 32953
Active ingredients (a.i.): Clomazone
PMRA Document Number: 2782639

Purpose of Application

The purpose of this application is to register a new source of Clomazone Technical.

Chemistry Assessment

Common Name: Clomazone
IUPAC* Chemical Name: 2-(2-chlorobenzyl)-4,4-dimethylisoxazolidin-3-one
CAS† Chemical Name: 2-[(2-chlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Clomazone Technical has the following properties:

Property	Result
Colour and physical state	Colourless liquid
Nominal concentration	97.0 %
Odour	characteristic
Density	1.088 g/mL
Vapour pressure	4.89×10^{-2} Pa (extrapolated to 25°C)
pH	6.07 (1% solution in water)
Solubility in water	1.20 g/L (20°C)
n-Octanol/water partition coefficient	log Kow = 2.51

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

Health, Environmental and Value Assessment

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

Conclusion

The PMRA has reviewed the information provided in support of this application. Based on the results of this review, the new source of Clomazone Technical is acceptable.

References

- 2719675 2016, Product Identity and Composition, Description of the Materials Used, Description of the Production Process, Discussion of the Formation of Impurities, and Certified Limits for Clomazone TG, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
- 2719676 2013, Clomazone Technical Material Analytical Profile of Five Batches, DACO: 2.13.1,2.13.2,2.13.3 CBI
- 2719678 2016, CLOMAZONE TECHNICAL Physical-chemical properties, DACO: 2.14.1,2.14.2,2.14.3 CBI
- 2719679 2014, Melting Point and vapour pressure of one batch of Clomazone TC, DACO: 2.14.4,2.14.9 CBI
- 2719680 2016, Physico-Chemical Testin of a Sample of Clomozaoone Technical 96% min, DACO: 2.14.5 CBI
- 2719681 2014, CLOMAZONE TECHNICAL MATERIAL Solubility in water and organic solvents, Partition Coefficient (n-Octanol/Water), DACO: 2.14.10,2.14.7,2.14.8
- 2719683 2016, Study Title: Determination of Storage Stability, Corrosion Characteristics, Stability to Elevated Temperature and UV/Visible Light Absorption of Clomazone Technical, DACO: 2.14.12,2.14.13,2.14.14 CBI
- 2719682 2016, Clomazone TG - Physical and Chemical Properties and Waiver Requests, DACO: 2.14.13,2.14.14 CBI

ISSN: 1911-8082

**8 Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services
Canada 2017**

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.