

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2022-0166
Application: Submissions Subject to Protection of Proprietary Interests in Pesticide Data Policy/ Data Compensation Assessment
Product: UPL Bromoxynil Octanoate Technical
Registration Number: 35008
Active ingredient (a.i.): Bromoxynil
PMRA Document Number : 3425864

Purpose of Application

The purpose of this application was to register a new source of bromoxynil, UPL Bromoxynil Octanoate Technical, based on a precedent.

Chemistry Assessment

Common Name: Bromoxynil octanoate
 IUPAC* Chemical Name: 2,6-dibromo-4-cyanophenyl octanoate
 CAS† Chemical Name: 2,6-dibromo-4-cyanophenyl octanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

UPL Bromoxynil Octanoate Technical has the following properties:

Property	Result
Colour and physical state	Off-white solid
Nominal concentration	67.3%
Odour	characteristic
Density	1.6385 g/mL
Vapour pressure	398 mPa at 20°C
pH	4.01
Solubility in water	1 µg/L
n-Octanol/water partition coefficient	log K _{ow} = 6.12

The required chemistry data for UPL Bromoxynil Octanoate Technical 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 provide and has found it sufficient to support the registration of UPL Bromoxynil Octanoate Technical.

References

PMRA Document Number	References
3309659	2020, Appearance (Colour, Physical State and odour) of Bromoxynil octanoate Technical, DACO: 2.14.1,2.14.2,2.14.3
3309660	2020, Dissociation Constant of Bromoxynil octanoate Technical, DACO: 2.14.10
3309661	2020, Partition Coefficient of Bromoxynil octanoate Technical, DACO: 2.14.11
3309662	2020, UV-Visible Analysis of Bromoxynil octanoate Technical, DACO: 2.14.12
3309663	2021, Accelerated Storage Stability and Corrosion Characteristics of Bromoxynil octanoate Technical, DACO: 2.14.14
3309657	2020, Validation of Analytical Method for Determination of Purity of Bromoxynil octanoate Technical, DACO: 2.13.1,2.13.2
3309664	2020, Determination of Stability of Bromoxynil octanoate Technical with and without metals and metal ions at normal and elevated temperature, DACO: 2.14.13,2.14.14
3309665	2020, pH of Bromoxynil octanoate Technical, DACO: 2.14.15,830.7000
3309666	2020, Melting point/ Melting Range of Bromoxynil octanoate Technical, DACO: 2.14.4
3309667	2020, Specific Gravity of Bromoxynil octanoate Technical, DACO: 2.14.6
3309668	2021, Water Solubility of Bromoxynil octanoate Technical, DACO: 2.14.7
3309669	2020, Vapour Pressure of Bromoxynil octanoate Technical, DACO: 2.14.9
3309655	2021, Production Process of Bromoxynil Octanoate Technical: Product Identity and Composition, Description of Materials Used to Produce the Product, Description of Production Process, Description of Formulation Process, Discussion of Formation of Impurities, Certified Limits and Enforcement Analytical Method, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.13.1,2.2,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
3411836	2019, Analysis of Five Batches of Bromoxynil octanoate Technical Material to Include the Determination of Relevant Manufacturing Process Impurities and Validation, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3309673	2021, Analysis of [CBI removed] in 5 batches of Bromoxynil octanoate TC, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI

© His Majesty the King in Right of Canada, as represented by the Minister of Health Canada, 2023

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 Health Canada, Ottawa, Ontario K1A 0K9.