

## Evaluation Report for Category B, Subcategory 2.3, 2.4 Application

**Application Number:** 2015-1970  
**Application:** New End-Use Product Chemistry – Identity and proportion of formulants  
**Product:** SILENCER 120 EC Low VOC  
**Registration Number:** 32427  
**Active ingredients (a.i.):** Lambda-cyhalothrin  
**PMRA Document Number:** 2588844

### Purpose of Application

The purpose of this application was to register SILENCER 120 EC Low VOC, containing lambda-cyhalothrin as an active ingredient, for use as an insecticide.

### Chemistry Assessment

SILENCER 120 EC Low VOC is formulated as an emulsifiable concentrate containing lambda-cyhalothrin at a nominal concentration of 120 g/L. This end-use product has a density of 0.927 g/mL and pH of 4-5. The required chemistry data for SILENCER 120 EC Low VOC have been provided, reviewed and found to be acceptable.

### Health Assessments

Occupational exposure and food residue assessments were not required for this application.

SILENCER 120 EC Low VOC was of moderate acute toxicity in rats following exposure via the oral route, and of low acute toxicity in rats following dermal or inhalation exposure. It was mildly irritating to the eyes of rabbits, but was not irritating to rabbit skin. Based on the available information SILENCER 120 EC Low VOC is considered a potential dermal sensitizer.

### Environmental Assessment

An environmental assessment is not required for this application.

### Value Assessment

Fifteen field trials showed equivalent efficacy between SILENCER 120 EC Low VOC Insecticide and the precedent product against a variety of pests (i.e., aphids, grasshoppers, lygus bugs, flea beetles, cereal leaf beetles and Colorado potato beetles) in a variety of crops (i.e., canola, wheat, oats, lentils and potatoes). Therefore, SILENCER 120 EC Low VOC Insecticide was supported for use against labeled pests on labeled crops at labeled rates. No phytotoxicity

was observed as a result of SILENCER 120 EC Low VOC Insecticide treatments.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information available and can support the registration of SILENCER 120 EC Low VOC for use as an insecticide.

## References

PMRA Document Number	References
2534150	2015, Chemistry-3.1.1-4, 3.5.4-5-Bumper VOC, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.5.12,3.5.13,3.5.15,3.5.4,3.5.5 CBI
2534151	2010, Lambda-cy IEC Low VOC Product Chemistry, DACO: 3.2.1,3.2.2,3.2.3,3.3.1,3.4.1 CBI
2534152	2010, Final Report for the Physical and Chemical Characteristics of Lambda Cyhalothrin 120 EC, DACO: 3.5.1,3.5.11,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9 CBI
2534153	2004, Storage Stability and Corrosion Characteristics of the Formulation MCW-449 IEC Over 1 Year of Storage at Ambient Temperature, DACO: 3.5.10,3.5.14 CBI
2575964	2015, Chemistry-3.1.1-4,3.5.4-5, 12, 13, 15-Silencer low VOC-20. October 2015, DACO: 3.1.1,3.1.2,3.1.3,3.1.4,3.5.12,3.5.13,3.5.15,3.5.4,3.5.5 CBI
2575965	2011, Storage Stability and Corrosion Characteristics of Lambda Cyhalothrin 120 EC, DACO: 3.4.1,3.5.10,3.5.14 CBI
2554465	2010, Acute Oral Toxicity Study (UDP) in Rats, DACO: 4.6.1
2554466	2010, Acute Dermal Toxicity Study in Rats, DACO: 4.6.2
2554467	2010, Acute Inhalation Toxicity Study in Rats, DACO: 4.6.3
2554468	2010, Acute Eye Irritation Study in Rabbits, DACO: 4.6.4
2554469	2010, Acute Dermal Irritation Study in Rabbits, DACO: 4.6.5
2559154	2015, Toxicology-4.6.6-Skin sensitization-Silencer low VOC-revised-24 August, 2015, DACO: 4.6.6 - CBI
2559155	1997, The Safety of Fatty Acid Methyl Esters & their acceptability as immediate previous cargoes to be used in foods after further processing, DACO: 4.6.6
2559158	2001, Toxicology-Lambda Cy TGAI-4.2.6, DACO: 4.2.6
2534130	2015, Value Summary for Silencer 120 VOC, DACO: 10.1,10.2.1,10.2.2,10.2.3.1,10.3.3,10.4,10.5.1,10.5.2,10.5.3,10.5.4,10.5.5
2534131	2015, Summary of Trials Evaluating Silencer, DACO: 10.2.3.1, 10.3.1
2534132	2013, CAN-1_Silencer 120 VOC/canola trial, DACO: 10.2.3.3, 10.3.2
2534133	2014, CAN-2_Silencer 120 g/L VOC canola, DACO: 10.2.3.3, 10.3.2
2534134	2014, CAN-3_Silencer 120 g/L VOC canola, DACO: 10.2.3.3, 10.3.2
2534135	2013, POT-1_2013 Silencer 120 VOC/potato trial, DACO: 10.2.3.3, 10.3.2
2534136	2013, POT-2_Manana Potato Insecticide Report, DACO: 10.2.3.3, 10.3.2
2534137	2015, POT-3_ADAMA Silencer Potato Insecticide Report, DACO: 10.2.3.3, 10.3.2
2534138	2015, POT-5_3559314-Silencer VOC/potato, DACO: 10.2.3.3, 10.3.2
2534139	2014, ADAMA Silencer Potato Insecticide Report, DACO: 10.2.3.3, 10.3.2
2534140	2013, LENT-1_2013 Silencer 120 VOC/lentils, DACO: 10.2.3.3,10.3.2
2534141	2014, LENT-2_Silencer 120 g/L VOC lentils, DACO: 10.2.3.3,10.3.2
2534142	2014, LENT-3_Silencer 120 g/L VOC lentils, DACO: 10.2.3.3,10.3.2
2534143	2014, 2013 Silencer 120 VOC/Cereals trial code: 37358, DACO: 10.2.3.3, 10.3.2
2534144	2013, OAT-1_Silencer VOC and Silencer EC on oats, DACO: 10.2.3.3, 10.3.2
2534145	2013, WHT-1_Silencer VOC and Silencer EC on spring wheat, DACO: 10.2.3.3, 10.3.2

2534146 2014, WHT-2\_Silencer 120 g/L VOC cereals, DACO: 10.2.3.3, 10.3.2  
2534147 2014, WHT-3\_Silencer 120 g/L VOC cereals, DACO: 10.2.3.3, 10.3.2  
2534148 2015, POT-4\_Trial 3559314-Silencer VOC/potato for Colorado Potato Beetle  
Control, DACO: 10.2.3.3, 10.3.2

ISSN: 1911-8082

© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services  
Canada 2016

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.