

## Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

**Application Number:** 2015-6487  
**Application:** Changes to TGAI Product Chemistry – New Source (site) Same Registrant and Specifications  
**Product:** Fluoxastrobin Technical Fungicide  
**Registration Number:** 30407  
**Active ingredient (a.i.):** Fluoxastrobin  
**PMRA Document Number:** 2695101

### Purpose of Application

The purpose of this application was to add a new manufacturing site to Fluoxastrobin Technical Fungicide with minor changes in the manufacturing process.

### Chemistry Assessment

**Common Name:** Fluoxastrobin  
**IUPAC\* Chemical Name:** (1*E*)-1-(2-{{6-(2-chlorophenoxy)-5-fluoropyrimidin-4-yl}oxy}phenyl)-1-(5,6-dihydro-1,4,2-dioxazin-3-yl)-*N*-methoxymethanimine  
**CAS† Chemical Name:** (1*E*)-[2-[[6-(2-chlorophenoxy)-5-fluoro-4-pyrimidinyl]oxy]phenyl](5,6-dihydro-1,4,2-dioxazin-3-yl)methanone O-methyloxime

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Fluoxastrobin Technical Fungicide has the following properties:

Property	Result						
Colour and physical state	White crystalline solid						
Nominal concentration	95.76%						
Odour	Faint characteristic						
Density	1.4216 g/mL						
Vapour pressure	<table border="1"> <thead> <tr> <th>T (°C)</th> <th>Vapour pressure (Pa)</th> </tr> </thead> <tbody> <tr> <td>20</td> <td><math>5.63 \times 10^{-10}</math></td> </tr> <tr> <td>25</td> <td><math>8.72 \times 10^{-10}</math></td> </tr> </tbody> </table>	T (°C)	Vapour pressure (Pa)	20	$5.63 \times 10^{-10}$	25	$8.72 \times 10^{-10}$
	T (°C)	Vapour pressure (Pa)					
	20	$5.63 \times 10^{-10}$					
25	$8.72 \times 10^{-10}$						

Property	Result										
pH	6.3										
Solubility in water	<table border="0"> <thead> <tr> <th><u>pH</u></th> <th><u>Solubility (mg/L)</u></th> </tr> </thead> <tbody> <tr> <td>un-buffered</td> <td>2.559</td> </tr> <tr> <td>4</td> <td>2.431</td> </tr> <tr> <td>7</td> <td>2.292</td> </tr> <tr> <td>9</td> <td>2.272</td> </tr> </tbody> </table>	<u>pH</u>	<u>Solubility (mg/L)</u>	un-buffered	2.559	4	2.431	7	2.292	9	2.272
<u>pH</u>	<u>Solubility (mg/L)</u>										
un-buffered	2.559										
4	2.431										
7	2.292										
9	2.272										
n-Octanol/water partition coefficient	Log K <sub>ow</sub> = 2.86										

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

### Health Assessments

Exposure assessments were not required for this application.

The new source of fluoxastrobin technical is considered toxicologically equivalent to the currently registered source. No toxicological data were submitted or are required at this time.

### Environmental and Value Assessments

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 determined that the addition of a new manufacturing site to Fluoxastrobin Technical Fungicide with minor changes in the manufacturing process can be supported.

## References

<b>PMRA Document Number</b>	<b>References</b>
2586368	2015, Production Process of Fluoxastrobin, DACO: 2.11.2, 2.11.3, 2.11.4, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 CBI
2586369	2015, Five batches of technical Fluoxastrobin, DACO: 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
2654382	2010, Analytical Method Fluoxastrobin (HEC 5725) Determination of technical grade active substance HPLC – ESTD, DACO: 2.13.1 CBI
2654383	2010, Validation of AM010610MP1 Fluoxastrobin (HEC 5725) – Determination of technical grade active substance HPLC – External standard, DACO: 2.13.1 CBI
2654384	2014, Analytical Method Fluoxastrobin (HEC 5725) Impurities in technical grade active substance HPLC - external standard, DACO: 2.13.1, 2.13.4 CBI
2654385	2014, Analytical Method Fluoxastrobin Determination of 4-methyl-2-pentanone and Methanol in technical grade active substance GLC-Headspace - external standard, DACO: 2.13.1, 2.13.4 CBI
2654386	2014, Validation of AM010410MP2 Fluoxastrobin (HEC 5725 ) impurities in technical grade active substance HPLC - external standard, DACO: 2.13.1, 2.13.4 CBI
2654387	2014, Validation of GLC-method AM024814MP1 Fluoxastrobin - Determination of 4-methyl-2-pentanone and Methanol in technical grade active substance GLC - external standard (Headspace), DACO: 2.13.1, 2.13.4 CBI
2664607	2010, Validation of AM010410MP1 Fluoxastrobin (HEC 5725) Impurities in technical grade active substance HPLC - external standard, DACO: 2.13.1 CBI

ISSN: 1911-8082

**8 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.