

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number:	2012-3496	
Application:	Changes to the Technical Grade Active Ingredient Product	
	Chemistry - New Source (site) same registrant	
Product:	Oxadiazon Technical	
Registration Number:	23590	
Active ingredients (a.i.):	Oxadiazon (OXA)	
PMRA Document Number : 2294624		

Purpose of Application

The purpose of this application was to register a new manufacturing site for Oxadiazon Technical (Registration number 23590).

Chemistry Assessment

Common Name:	Oxadiazon
IUPAC Chemical Name:	5-tert-butyl-3-(2,4-dichloro-5-isopropoxyphenyl)-1,3,4-oxadiazol-
	2(3 <i>H</i>)-one
CAS Chemical Name:	3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-
	1,3,4-oxadiazol-2(3 <i>H</i>)-one

Property	Result
Colour and physical state	Beige solid
Nominal concentration	99%
Odour	Weak odour, not characteristic
Density at 20°C	1.30 g/cm^3
Vapour pressure at 25°C	0.1 mPa
рН	6.1 (1% aqueous suspension)
Solubility in water	<u>pH</u> <u>Solubility (mg/L</u>)
	buffer, pH 5 0.79
	distilled water, pH 6.20.92
	buffer, pH 9 0.76
n-Octanol/water partition	Log $K_{ow} = 4.9$; $K_{ow} = 7.9 \times 10^4$ (pH 5.7,
coefficient	25°C)

Oxadiazon Technical has the following properties:

The chemistry requirements for Oxadiazon Technical have been completed.

Health, Environmental and Value Assessments



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

Conclusion

The PMRA has completed an assessment of available information for Oxadiazon Technical and has found the information sufficient to support the addition of a new manufacturing site for Oxadiazon Technical.

References

2221057	2012, Oxadiazon Technical Herbicide, DACO: 2.0, 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9
2221059	2012, Oxadiazon (AE F082671; RP 17623) Description of the Manufacturing
	Process of the Technical Grade Active Substance (Specification No.
	102000026621) For Canada, DACO: 2.11,2.11.1,2.11.2,2.11.3 CBI
2221063	2012, Oxadiazon Technical Material - Discussion of the Formation of Impurities
	in Oxadiazon, DACO: 2.11.4 CBI
2221066	2012, Material Accountability of Technical Oxadiazon (AE F082671), DACO:
	2.12, 2.12.1, 2.12.2, 2.13, 2.13.1, 2.13.2, 2.13.3 CBI
2221069	2011, Oxadiazon (AE F082671), technical substance: Physical characteristics
	colour, physical state and odour, DACO: 2.14.1,2.14.2,2.14.3 CBI
2221071	2011, Stability of OXDIAZON (AE F082671) Technical Grade Active Ingredient
	to Normal and Elevated Temperature, Metals and IVIetal Ions and Corrosion
	Characteristics, DACO: 2.14.13 CBI
2221073	2011, Oxadiazon (AE F082671), technical substance: The oxidation or reduction
	properties, DACO: 2.16 CBI
2221076	2011, Oxadiazon (AE F082671), technical substance: Determination of the pH-
	value in distilled water, DACO: 2.16 CBI
2221078	2011, Oxadiazon (AE F082671), technical substance: Relative density, DACO:
	2.14.6 CBI
2221081	2011, Oxadiazon (AE F082671), technical substance: Partition coefficient 1-
	octanol / water (HPLC method), DACO: 2.14.11 CBI
2221083	2011, Oxadiazon (AE F082671), technical substance: Solubility in distilled water
	and at pH 5 and pH 9 (column elution method), DACO: 2.14.8 CBI

ISSN: 1911-8082

[®] Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2014

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.