

# New Source (Site of Manufacture) by Current Registrant and Specifications and Manufacturing Process Evaluation Report for Category B, Subcategories B1.1 and B1.3 Application

<b>Application Number:</b>	2006-0035
Application:	New source (site of manufacture) by current registrant (B1.1) and
	Specifications and manufacturing process (B1.3)
Product:	Fludioxonil Technical Fungicide
<b>Registration Number:</b>	24731
Active ingredients (a.i.):	Fludioxonil [FLD]
<b>PMRA Document Number</b>	: 1418664

### Background

Fludioxonil Technical has been registered since October 2, 1996. This product is used in the reformulation of pesticides. It contains the TGAI fludioxonil at 97.6%. Fludioxonil is a member of the phenylpyrrole class of compounds. Fludioxonil is a contact fungicide that is active against a wide range of pathogens that cause a variety of air-, seed- and soil-borne diseases in numerous crops.

### **Purpose of Application**

The purpose of this application was to amend the registration of Fludioxonil Technical in order to add a new manufaturing site and to change the specifications of the TGAI.

#### **Chemistry Assessment**

Common Name:	Fludioxonil
IUPAC Chemical Name:	4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile
CAS Chemical Name:	Pyrrole-3-carbonitrile, 4-(2,2-difluoro-benzodioxol-4-yl)-



Fludioxonil Technical Fungicide has the following properties:

Property	Result
Colour and physical state	colourless solid
Nominal concentration	98.1%
Odour	odourless
Density	1.54 g/cc
Vapour pressure	2.9 x 10- <sup>9</sup> mmHg (25° C)
рН	n/a
Solubility in water	1.88 ppm
n-Octanol/water partition coefficient	Log Kow = 4.12 (pH 5 9)

The chemistry requirements for Fludioxonil Technical Fungicide are complete.

# **Health Assessments**

With the new manufacturing site, the Fludioxonil Technical Fungicide is considered to be chemically equivalent, but not identical to the precedent chemical as the guarantee has increased from 96.7% Fludioxonil to 98.1% Fludioxonil and process-related impurites have decreased. Therefore, the toxicity profile is not expected to be significantly different and no toxicological data were required.

The food residue risk profile of Fludioxonil Technical is expected to be similar to that of the original registered Fludioxonil Technical as chemistry concluded that both TGAIs were chemically equivalents. Accordingly, no increase in dietary exposure is anticipated.

# **Environmental Assessment**

An environmental assessment was not required under this application.

# Value Assessment

A value assessment was not required under this application.

# Conclusion

Following the review of all available data, the new fludioxonil TGAI is considered equivalent to the original registered fludioxonil TGAI and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

#### References

#### Chemistry

Studies/Information Provided by Applicant/Registrant

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