

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2017-0886
Application: Changes TGAI Product Chemistry-Specifications
Product: Fluopyram Technical Fungicide
Registration Number: 30508
Active ingredient (a.i.): Fluopyram
PMRA Document Number : 2807985

Purpose of Application

The purpose of this application was to provide data from commercial scale production and to update the guarantee of the product.

Chemistry Assessment

Common Name: Fluopyram
IUPAC* Chemical Name: *N*-{2-[3-chloro-5-(trifluoromethyl)-2-pyridyl]ethyl}- α,α,α -trifluoro-*o*-toluamide
CAS† Chemical Name: *N*-[2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]-2-(trifluoromethyl)benzamide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Fluopyram Technical Fungicide has the following properties:

| Property | Result |
|---------------------------------------|-----------------------------------|
| Colour and physical state | White solid |
| Nominal concentration | 98.3% |
| Odour | No noticeable odour |
| Density | 1.53 g/cm ³ |
| Vapour pressure | 3.1 × 10 ⁻⁶ Pa at 25°C |
| pH | 6.6 (1% solution) |
| Solubility in water | 16 mg/L (20°C, pH 7) |
| n-Octanol/water partition coefficient | Log K _{ow} = 3.3 at 20°C |

The required chemistry data for Fluopyram Technical Fungicide 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 conducted a review of the information provided in support of this application and has determined that the data are acceptable.

References

| PMRA Document Number | Reference |
|-----------------------------|---|
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| 2475397 | 2014, Fluopyram technical grade active substance - Justification of certified limits for USA and Canada, DACO: 2.12.1 CBI |
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| 2475401 | 2013, Validation of AM020212MP1 - Fluopyram (AE C656948) - Determination of technical grade active substance, DACO: 2.13.1 CBI |
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| 2475405 | 2014, Validation of AM003906MP5 - Fluopyram (AE C656948) - Impurities in technical grade active substance - HPLC with external standard, DACO: 2.13.1 CBI |
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| 2475409 | 2014, Fluopyram - Determination of (CBI removed) in technical grade active substance GLC-Headspace - external standard, DACO: 2.13.1 CBI |
| 2475410 | 2014, Validation of GLC-method AM024514MP1 – Fluopyram Determination of (CBI removed) in technical grade active substance - GLC - external standard (Headspace), DACO: 2.13.1 CBI |
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| 2729759 | 2014, Fluopyram (AE C656948) - Impurities in technical grade active substance - HPLC with external standard, DACO: 2.13.1,2.13.2 CBI |
| 2729760 | 2014, Fluopyram - Determination of (CBI removed) in technical grade active substance - GLC-Headspace - external standard, DACO: 2.13.1 CBI |
| 2729761 | 2014, Validation of GLC-method AM024614MP1 - Fluopyram - Determination of (CBI removed) in technical grade active substance GLC - External standard (Headspace), DACO: 2.13.1 CBI |

- 2729762 2016, Statement on the equivalence of the Ion chromatography methods AM022513MP1 and AM004006MP1, DACO: 2.13.1 CBI
- 2729763 2016, Material accountability of technical fluopyram (AE C656948) - Five batches of technical fluopyram, DACO: 2.13.3 CBI

ISSN: 1911-8082

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