

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2015-6728
Application: Changes to TGAI Product Chemistry – New Source (site) Same Registrant
Product: Isoxaflutole Technical
Registration Number: 26141
Active ingredients (a.i.): Isoxaflutole
PMRA Document Number: 2664237

Purpose of Application

The purpose of this application was to add a new manufacturing site to Isoxaflutole Technical.

Chemistry Assessment

Common Name: Isoxaflutole
IUPAC* Chemical Name: (5-cyclopropyl-1,2-oxazol-4-yl)(α,α,α -trifluoro-2-mesyl-p-tolyl)methanone
CAS† Chemical Name: (5-cyclopropyl-4-isoxazolyl)[2-(methylsulfonyl)-4(trifluoromethyl)phenyl]methanone

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Isoxaflutole Technical has the following properties:

| Property | Result |
|---------------------------|---|
| Colour and physical state | Yellow |
| Nominal concentration | 98% |
| Odour | Slight acetic acid-like odour |
| Density | 1.419 g/mL |
| Vapour pressure | 1.0 x 10 ⁻⁶ Pa (25°C) 3.22x10 ⁻⁷ Pa (20°C) |
| pH | 4.6 |
| Solubility in water | 6.2 mg/L (20 - 25°C, pH 5.5) |

| Property | Result |
|---------------------------------------|----------------------------|
| n-Octanol/water partition coefficient | Log K _{ow} = 2.34 |

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

Health Assessments

Exposure assessments were not required for this application.

The new source is considered to be toxicologically equivalent to the previously registered source. Subsequently, no toxicological data were submitted or are required.

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 Isoxaflutole Technical can be supported.

References

PMRA Document Number

References

- | | |
|---------|---|
| 2589006 | 2006, Identification of substances by [CBI removed], DACO: 2.13.1 CBI |
| 2589008 | 2012, Analytical method - Determination of by-products in technical grade and pure isoxaflutole (AE B197278) by [CBI removed], DACO: 2.13.1 CBI |

ISSN: 1911-8082

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