

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2015-7182
Application: New TGAI Prod Chemistry-Specifications
Product: Bromoxynil Mixed Ester Technical
Registration Number: 32592
Active ingredients (a.i.): Bromoxynil
PMRA Document Number: 2701334

Purpose of Application

The purpose of this application was to register a new technical grade active ingredient.

Chemistry Assessment

Common Name: Bromoxynil heptanoate and bromoxynil octanoate
IUPAC* Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate and 2,6-dibromo-4-cyanophenyl octanoate
CAS† Chemical Name: 2,6-dibromo-4-cyanophenyl heptanoate and 2,6-dibromo-4-cyanophenyl octanoate

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Bromoxynil Mixed Ester Technical has the following properties:

Property	Result
Colour and physical state	Light brown solid
Nominal concentration	66.5%
Odour	Petroleum odour
Density	1.49 g/mL at 20°C
Vapour pressure	< 0.0001 mPa at 40°C
pH	4.2 (1% aqueous suspension)
Solubility in water	~ 0.05 mg/L
n-Octanol/water partition coefficient	logK _{ow} ~ 5.5

The required chemistry data for Bromoxynil Mixed Ester Technical 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 completed an assessment of the information provided, and has found the information sufficient to support the registration of the technical grade active ingredient Bromoxynil Mixed Ester Technical.

References

PMRA No.	Title
2597296	1992, Product Chemistry of Bromoxynil mixed Ester manufacturing use product, DACO: 2.14,2.14.10,2.14.11,2.14.14,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8, 2.14.9 CBI
2597297	2007, Product chemistry of bromoxynil mixed ester manufacturing use concentrate, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.12.2,2.14.1,2.14.14 CBI
2597298	2001, Analytical profile of five typical production batches Bromoxynil octanoate, bromoxynil heptanoate technical grade active ingredient Code: AE F065321, AE 0503060, DACO: 2.13.1,2.13.2,2.13.3 CBI
2633710	2014, Material accountability of Bromoxynil Octanoate/Heptanoate mixed ester (AE F065321/AE 0503060), DACO: 2.13.3 CBI
2633711	2014, Validation of the [CBI Removed] - method AM023808FP2 Determination of the by-products in technical grade Bromoxynil Octanoate/Bromoxynil Heptanoate (AE F065321/AE 0503060) mixed ester by [CBI Removed], DACO: 2.13.1,2.13.4 CBI
2634634	2014, Determination of Bromoxynil octanoate (AE F065321) and Bromoxynil heptanoate (AE 0503060) in technical grade and pure Bromoxynil octanoate / Bromoxynil heptanoate mixed ester by high performance liquid chromatography (HPLC), DACO: 2.13.1 CBI
2634635	2014, Determination of the by-products in technical grade Bromoxynil Octanoate/Bromoxynil Heptanoate mixed ester (AE F065321/AE 0503060) by [CBI Removed], DACO: 2.13.1 CBI
2634636	2014, Determination of by-products in technical grade Bromoxynil Octanoate/Bromoxynil Heptanoate (AE F065321/AE 0503060) mixed ester by [CBI Removed], DACO: 2.13.1 CBI
2634637	2014, Amendment No 1 to Validation of The HPLC method AM023708FP2 Determination of the by-products in technical grade Bromoxynil Octanoate/Bromoxynil Heptanoate (AE F065321/AE 0503060) mixed ester by [CBI Removed], DACO: 2.13.1 CBI
2634638	2014, Validation of the HPLC - method AM023908FP2 Determination of the AE F065321 and AE 0503060 in technical grade Bromoxynil Octanoate/Bromoxynil Heptanoate (AE F065321/AE 0503060) mixed ester by High Performance Liquid Chromatography (HPLC), DACO: 2.13.1 CBI
2653399	2016, SPSF Identification, DACO: 2.13.2 CBI
2653400	2008, Certificate of Analysis, DACO: 2.13.2 CBI
2653401	2008, Certificate of Analysis, DACO: 2.13.2 CBI
2653402	2009, Certificate of Analysis, DACO: 2.13.2 CBI
2653403	2009, Certificate of Analysis, DACO: 2.13.2 CBI
2653405	2009, Certificate of Analysis, DACO: 2.13.2 CBI
2653406	2010, Certificate of Analysis, DACO: 2.13.2 CBI
2653407	2010, Certificate of Analysis, DACO: 2.13.2 CBI
2653408	2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653409	2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653410	2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653411	2011, Certificate of Analysis, DACO: 2.13.2 CBI

2653412 2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653413 2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653414 2011, Certificate of Analysis, DACO: 2.13.2 CBI
2653415 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653416 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653417 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653418 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653419 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653420 2012, Certificate of Analysis, DACO: 2.13.2 CBI
2653421 2013, Certificate of Analysis, DACO: 2.13.2 CBI
2653422 2013, Certificate of Analysis, DACO: 2.13.2 CBI

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