

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2018-0544
Application: Changes TGAI Product Chemistry-New Source (site), same registrant
Product: NewAgco Bromoxynil Octanoate II Technical Herbicide
Registration Number: 33592
Active ingredient (a.i.): Bromoxynil
PMRA Document Number : 3016174

Purpose of Application

The purpose of this application was to register a new source of technical grade bromoxynil, NewAgco Bromoxynil Octanoate II Technical Herbicide.

Chemistry Assessment

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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

NewAgco Bromoxynil Octanoate II Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Yellow solid powder
Nominal concentration	67.3%
Odour	Odourless
Density	1.504 g/mL
Vapour pressure	0.16 mPa at 20°C and 0.32 mPa at 25°C
pH	4.46
Solubility in water	1.30 mg/L
n-Octanol/water partition coefficient	6.11

The required chemistry data for NewAgco Bromoxynil Octanoate II Technical Herbicide 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 it sufficient to register NewAgco Bromoxynil Octanoate II Technical Herbicide.

References

PMRA

Document

Number	Reference
2847789	2014, Manufacturing Process Description of Materials Used to Produce the Product And Description of Production process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4 CBI
2847790	2012, Preliminary Analysis of Bromoxynil Octanoate TGAI, DACO: 2.12.1,2.13.2,2.13.3 CBI
2847791	2012, Preliminary Analysis of Bromoxynil Octanoate TGAI - Confidential Attachment, DACO: 2.12.1,2.13.2,2.13.3 CBI
2847792	2011, Validation of Analytical Methodology for the Assay of Active Ingredient in Bromoxynil octanoate TGAI, DACO: 2.13.1 CBI
2847793	2012, Validation of Analytical Methodology for the Assay of 2 non-relevant impurities in Bromoxynil octanoate TGAI, DACO: 2.13.1 CBI
2847794	2012, Validation of Analytical Methodology for the Assay of 4 non-relevant impurities in Bromoxynil octanoate TGAI, DACO: 2.13.1 CBI
2847795	2012, Vapour Pressure of Bromoxynil octanoate TGAI, DACO: 2.14.9 CBI
2847796	2012, Chemical and Physical Characterisation of Bromoxynil octanoate TGAI: Color, Physical State, Odor, Stability, Oxidation/Reduction, pH, UV-Vis, Melting, Density Dissociation Constant, Partition Coefficient and Solubility, DACO: 2.14.1,2.14.11,2.14.12,2.14.13,2.14.14,2.14.15,2.14.2,2.14.3,2.14.4,2.14.6,2.14.7,2.14.8,830.7000 CBI
2937322	2012, Validation of Analytical Methodology for the Assay of Bromoxynil heptanoate in Bromoxynil Octanoate TGAI, DACO: 2.13.1 CBI
3006725	2019, Rationale for Difference, DACO: 2.14.7 CBI

ISSN: 1911-8082

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