

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2011-2181
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: ADAMA Metribuzin Technical Herbicide
Registration Number: 32080
Active ingredients (a.i.): Metribuzin
PMRA Document Number : 2577548

Purpose of Application

The purpose of this application was to register a new source of the active ingredient, metribuzin, by a different Registrant.

Chemistry Assessment

Common Name: Metribuzin
IUPAC* Chemical Name: 4-amino-6-*tert*-butyl-3-(methylsulfanyl)-1,2,4-triazin-5(4*H*)-one
CAS† Chemical Name: 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4*H*)-one

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

MANA Metribuzin Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	94.0%
Odour	Faint garlic odour
Density	0.49 g/mL
Vapour pressure	<0.01 Pa (at 25°C)
pH	8.53 (1% solution in water)
Solubility in water	1.17 g/mL (20°C)

Property	Result
n-Octanol/water partition coefficient	Log K _{ow} = 1.65

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

Health and Environmental Assessments

As the new source of metribuzin is chemically equivalent to the registered source, the health and environmental risk profiles are expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Value Assessment

A value assessment is not required for technical grade active ingredient products.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that it can support the registration of ADAMA Metribuzin Technical Herbicide.

References

PMRA Document Number	Reference
2056828	2011, Chemistry-2.1, 2.2, 2.3.1-metribuzin TGAI, DACO: 2.1,2.2,2.3.1
2056829	2004, Metribuzin Technical Herbicide Product Properties, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,2.2,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2056830	2004, Metribuzin Technical Five Lots Analysis and Method Validation, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
2056834	2004, Physical and Chemical Characteristics: Color, Physical state, Odor, Stability, pH and Bulk Density, DACO: 2.14.1,2.14.13,2.14.2,2.14.3,2.14.6
2056835	2003, Metribuzin Technical Vapor Pressure, DACO: 2.14.9
2056841	2011, Metribuzin General Information, DACO: 2.14.10,2.14.11,2.14.12,2.14.4,2.14.7,2.14.8
2089572	2009, (CBI deleted). Declaration-Dates of Samples, DACO: 2.13.3 CBI

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