

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2008-0584
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: UPI Metribuzin Technical Herbicide
Registration Number: 30660
Active ingredients (a.i.): Metribuzin
PMRA Document Number (English PDF): 2207275

Background

The source of metribuzin used to determine chemical equivalence was Registration Number 20537.

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-methylthio-1,2,4-triazin-5(4H)-one

CAS Chemical name: 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one

UPI Metribuzin Technical Herbicide has the following properties:

Property	Results
Colour and physical state	White
Nominal concentration	97.0 %
Odour	Odourless
Density	$0.53 \pm 0.02 \text{ g/cm}^3$ at 20°C
Vapour pressure	$1.34 \times 10^{-3} \text{ Pa}$ at 30°C
pH	7.3 at 28°C
Solubility in water	$0.8801 \pm 0.0360 \text{ g/L}$ at 20°C
n-Octanol/water partition coefficient	Log Kow = 1.66

The chemistry requirements for UPI Metribuzin Technical Herbicide have been completed.

Health Assessments

As the new source of metribuzin is chemically equivalent to the registered

source, the health risk profile is expected to be similar to that of the product used to determine chemical equivalence. No additional assessments were required.

Environmental Assessment

The environmental issues with regards to metribuzin have already been addressed by the PMRA. Also, the use pattern associated with the proposed end-use product is identical to currently registered uses of metribuzin. It was determined that an environmental assessment was not required and there was no need to fully review the additional environmental data at this time.

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 UPI Metribuzin Technical Herbicide.

References

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794589	2003, Density Of Metribuzin, 4137, DACO: 2.14.6 CBI
794590	2003, Water Solubility Of Metribuzin, 4138, DACO: 2.14.7 CBI
794591	2003, Solubility Of Metribuzin In Organic Solvents., 4139, DACO: 2.14.8 CBI
794594	2003, Chemistry Requirements and Metribuzin Technical Herbicide Product Identity, Composition, And Analysis (Group A), UPI-Metribuzin Tech-2003-09, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
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- 1550845 2004, PARTITION COEFFICIENT (n-OCTANOLIWATER) OF METRIBUZIN, 4595, DACO: 2.14.11
- 1550855 2004, VAPOUR PRESSURE OF METRIBUZIN, 4594, DACO: 2.14.9
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- 1550897 2008, Product Chemistry for UPI Metribuzin Technical Herbicide DACO 2.1, 2.2, 2.15, N/A, DACO: 2.1,2.15,2.2 CBI
- 1737371 2009, Attachment 1: Deficiency Response UPI Metribuzin Technical Herbicide; Submission Number 2008-0584, April 3, 2009, n/a, DACO: 2.11.3,2.11.4,2.12.1,2.13.1,2.13.2,2.13.3,2.14.6,2.15 CBI

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