



Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2008-0965
Application: New Source of Technical Grade Active Ingredient by a New Registrant
Product: MANA Imazethapyr Technical Herbicide
Registration Number: 30016
Active ingredients (a.i.): Imazethapyr
PMRA Document Number English PDF: 2020436

Background

For this application, chemical equivalence of the new source of imazethapyr was determined using Registration Number 21536.

Purpose of Application

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

Chemistry Assessment

Common Name: Imazethapyr
Chemical Name: (\pm) -2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

MANA Imazethapyr Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Off-white dust
Nominal concentration	97.0%
Odour	Fruity
Bulk density/ Specific gravity (20°C)	0.622 g/mL
Vapour pressure (25°C)	8.5×10^{-8} Pa
pH	N/A since the product is a solid
Solubility in water	1.19 g/L (pH = 3)
n-Octanol/water partition coefficient	Log K_{ow} = 0.870 (pH = 5.28)

The chemistry requirements for MANA Imazethapyr Technical Herbicide have been completed.

Health and Environmental Assessment

The health and environmental risk profiles of MANA Imazethapyr Technical Herbicide are expected to be similar to that of the source used to determine chemical equivalence. As a result, no additional assessments were required for this application.

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 MANA Imazethapyr Technical Herbicide.

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