

## Evaluation Report for Category B.1.1,B.1.3 Application

**Application Number:** 2012-0001  
**Application:** New Source  
**Product:** Mana Imazethapyr Technical Herbicide  
**Registration Number:** 30016  
**Active ingredients (a.i.):** Imazethapyr [IMP]  
**PMRA Document Number :** 2241707

### Purpose of Application

Makhteshim Agan Of North America Inc. has submitted an application to add a new source of imazethapyr to the currently registered product, Mana Imazethapyr Technical Herbicide. The re-evaluation was previously published as PRVD-2010-02.

### Chemistry Assessment

**Common Name:** Imazethapyr  
**IUPAC Chemical Name:** 5-ethyl-2-[(RS)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]nicotinic acid  
**CAS Chemical Name:** 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid1

MANA Imazethapyr Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Off- white tan powder
Nominal concentration	97.0 %
Odour	Fruity smell
Density at 20°C	0.622 g/mL
Vapour pressure at 25°C	$8.5 \times 10^{-8}$ Pa
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 Assessments**

As the new source of the active ingredient, MANA Imazethapyr Technical Herbicide, is considered to be chemically equivalent to the registered product, the toxicology profile of the proposed product is not expected to differ from that of the precedent product. Therefore, no additional toxicological data are required.

### **Environmental Assessment**

No environmental assessment was required for this application.

### **Value Assessment**

No value assessment was required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of information available in support of Mana Imazethapyr Technical Herbicide and has found the information sufficient to support the new source of imazethapyr to the currently registered product, Mana Imazethapyr Technical Herbicide.

## References

PMRA Document Number	Reference
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1566869	2007, Imazethapyr - Dissociation Constant, DACO: 2.14.10 CBI
1566870	2007, Imazethapyr - UV/Visible Spectrum, DACO: 2.14.12 CBI
1566871	2007, Imazethapyr Technical - Storage Stability and Corrosion Characteristics of Imazethapyr Technical Storage at 54 C for 14 days, DACO: 2.14.13, 2.14.14 CBI
2144095	2011, Chemistry-2.11.1,2-Imazethapyr milenia, DACO: 2.11.1,2.11.2
2144098	2011, [CBI REMOVED] - Manufacturing Process of Imazethapyr Technical, DACO: 2.11.3 CBI
2144101	2011, Discussion about probable impurities in technical Imazethapyr, DACO: 2.11.4 CBI
2144105	2006, Studies on the Profile of Vezir Technico (Imazethapyr), DACO: 2.12.1, 2.13.1, 2.13.2, 2.13.3 CBI
2217125	2005, Method of Analysis for Imazethapyr, DACO: 2.13.1 CBI
2217127	2012, [CBI REMOVED] response to clarification-21aug2012-imazethapyr, DACO: 2.13.1 CBI

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