

## Evaluation Report for Category B, Subcategory B.1.2 Application

**Application Number:** 2007-3204

**Application:** Category B, Subcategory B.1.2 Application (New or Changes TGAI)

**Product:** A H Marks Fenoxaprop-P-ethyl Technical

**Registration Number:** 29380

**Active ingredients (a.i.):** 97.5% of fenoxaprop-P-ethyl

**PMRA Document Number:** 1781283

### Background

There are currently 2 registered fenoxaprop-P-ethyl TGAIs in Canada. Fenoxaprop-P-ethyl Technical Herbicide (Reg. No. 21903) owned by Bayer CropScience Inc is the first one registered in Canada in 1991.

### Purpose of Application

The purpose of this application is to register a new technical source of fenoxaprop-P-ethyl.

### Chemistry Assessment

Common Name: Fenoxaprop-P-ethyl  
 IUPAC Chemical Name: Ethyl (*R*)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxy] propionate  
 OR ethyl (*R*)-2-[4-(6-chlorobenzoxazol-2-yloxy)phenoxy] propionate  
 CAS Chemical Name: Ethyl (2*R*)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate

A H Marks Fenoxaprop-P-ethyl technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.5%
Odour	Odourless
Bulk density	0.55 g/mL (at 20°C)
Vapour pressure	<5.2 x 10 <sup>-2</sup> mPa (at 25°C)
pH	Not applicable
Solubility in water	0.514 (pH 4.0-4.2), 0.492 (pH 5.1-5.7), 0.172 (pH 6.7-8.5) (all in mg/L at 20°C)
n-Octanol/water partition coefficient	log P <sub>ow</sub> = 4.60 at 35°C

The chemistry requirements for A H Marks Fenoxaprop-P-ethyl technical have been completed.

## Health and Environmental Assessment

This new source of fenoxaprop-P-ethyl has been determined to be chemically equivalent to the registered source. Therefore, the health and environmental risk profile of A H Marks Fenoxaprop-P-ethyl Technical Herbicide is expected to be similar to that of the original registered source.

## Value Assessment

A value assessment is not required for registration of a technical grade active ingredient product.

## Conclusions

The PMRA has completed an evaluation of the subject application and has determined that A H Marks Fenoxaprop-P-ethyl Technical Herbicide is eligible for registration with conditions, with a full registration being contingent upon fulfilling the following requirements: Submission of studies as required under product specific registration policy.

## References

- PMRA # 1407400: Fenoxaprop-P-ethyl Technical Ester. 2006. DACO: 2.0, 2.1, 2.2, 2.3, 2.3.1, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9.
- PMRA # 1407401: Fenoxaprop-P-ethyl Technical Ester. 2006. DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4. CBI.
- PMRA # 1407402: Fenoxaprop-P-ethyl Technical Ester. 2006. DACO: 2.11, 2.11.1, 2.11.2, 2.11.3, 2.11.4. CBI.
- PMRA # 1407403: Fenoxaprop-P-ethyl Technical Ester. 2006. DACO: 2.12, 2.12.1, 2.12.2, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4. CBI.
- PMRA # 1407404: Preliminary analysis of 5 batches of Fenoxaprop-P-ethyl TGAI [as Appendix II]. 2006. DACO: 2.12, 2.12.1, 2.12.2, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4. CBI.
- PMRA # 1407405: Fenoxaprop-P-ethyl Technical Ester. 2006. DACO: 2.14, 2.14.1, 2.14.10, 2.14.11, 2.14.12, 2.14.13, 2.14.14, 2.14.2, 2.14.3, 2.14.4, 2.14.5, 2.14.6, 2.14.7, 2.14.8, 2.14.9.
- PMRA # 1407406: Fenoxaprop-p-Ethyl: Physical chemical properties. 2006. DACO: 2.14, 2.14.1, 2.14.11, 2.14.2, 2.14.3, 2.14.4, 2.14.6, 2.14.8.
- PMRA # 1407407: Fenoxaprop-P-ethyl TGAI (Thermal stability). 2006. DACO: 2.14.13.
- PMRA # 1407408: Fenoxaprop-P-ethyl (Pure active ingredient): Determination of general physico-chemical properties and spectra. 2006. DACO: 2.14.10, 2.14.12, 2.14.7, 2.14.9.
- PMRA # 1773762: Fenoxaprop ethyl recovery. 2008. DACO: 2.13.4 CBI.
- PMRA # 1773763: Dioxin-fenoxaprop ethyl methodology details. 2008. DACO: 2.13.4. CBI.
- PMRA # 1773764: Dioxin-fenoxaprop ethyl chromatograms. 2008. DACO: 2.13.4. CBI.
- PMRA # 1773765: Dioxin-fenoxaprop ethyl quality details. 2008. DACO: 2.13.4. CBI.
- PMRA # 1773766: Dioxin-fenoxaprop ethyl quality details. 2008. DACO: 2.13.4. CBI.
- PMRA # 1779653: Dioxin furan analysis-AH Marks fenoxaprop - original study. 2008. DACO: 2.13.4. CBI.

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