

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

Application Number: 2006-0588
Application: B.1.2 New Source of Active Ingredient
Product: TFM Technical
Registration Number: 29103
Active ingredients (a.i.): 3-trifluoromethyl-4-nitrophenol (TFM)
PMRA Document Number: 1642371

Background

The registered source of 3-trifluoromethyl-4-nitrophenol (TFM) technical grade active ingredient, Lamprecid Technical, containing 77.5% TFM (Reg. No. 25287) was first registered in 1997; however, TFM products have been registered in Canada since 1970.

Purpose of Application

The purpose of this application is to register a new technical source of TFM, TFM Technical, containing 82.2% TFM. This new source of technical grade active ingredient is intended for use in the manufacture of other registered pest control products used in controlling sea lampreys in the Great Lakes and Lake Champlain systems.

Chemistry Assessment

Common Name: TFM
Chemical Name: 3-trifluoromethyl-4-nitrophenol

TFM Technical has the following properties:

Property	Result
Colour and physical state	Yellow solution
Nominal concentration	82.2%
Odour	Oily-nutty phenolic
Density	1.3-1.4 g/mL
Vapour pressure	177 Pa, estimated

Property	Result
pH	3.9
Solubility in water	5 g/L
n-Octanol/water partition coefficient	log P = 2.68

The chemistry requirements for TFM Technical have been met.

Health Assessments

The toxicology profile for the new source of TFM is expected to be similar to that of the registered source of TFM technical active ingredient.

An exposure assessment was not required.

Environmental Assessment

The environmental profile for the new source of TFM is similar to that of the registered source of TFM technical active ingredient.

Value Assessment

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

Conclusion

The PMRA has completed an evaluation of TFM Technical and has found the information sufficient to support the registration of TFM Technical for use in the manufacture of other registered pest control products.

References

Studies/Information Provided by Applicant/Registrant

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- 1147314 Establishing Certified Limits, DACO: 2.12.1 CBI
- 1147315 Methodology/Validation and Confirmation of Identity, DACO: 2.13.1, 2.13.2 CBI
- 1147316 2005, Product Chemistry Data, DACO: 2.13.3 CBI
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