

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2007-2007
Application: Category B, subcategory B.1.1 (new source by the current registrant) and B.1.3 (new specifications or manufacturing process).
Product: Rival Technical Herbicide
Registration Number: 18608
Active ingredients (a.i.): trifluralin (96.7% a.i.)
PMRA Document Number: 1725022

Background

The original source of Rival Technical Herbicide (trifluralin) was first registered in 1984.

Purpose of Application

The purpose of this application is to register a new source by the current registrant and new specifications or manufacturing process for Rival Technical Herbicide, a currently registered manufacturing concentrate product that is intended for use in the manufacture of end use products.

Chemistry Assessment

Common Name: Trifluralin
Chemical Name: 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)benzenamine

Rival Technical Herbicide has the following properties:

Property	Result
Colour and physical state	Orange solid
Nominal concentration	96.7% as determined by GC/MS
Odour	Odourless
Density	1.28 g/cm ³
Vapour pressure	0.013 Pa (at 25°C)
pH	6.2

Property	Result
Solubility in water	0.16 mg/L (at 20°C)
n-Octanol/water partition coefficient	Log K _{ow} = 5.6

The chemistry requirements for Rival Technical Herbicide have been completed.

Health Assessments

The active ingredients produced at the new and registered sites of manufacture of Rival Technical Herbicide are chemically equivalent. Therefore, the health risk profile of Rival Technical Herbicide is expected to be similar to that of the original registered source and no toxicological data were required.

An occupational exposure assessment was not required as the use pattern, including host crops, application rates and timings remained unchanged.

A dietary exposure assessment was not required as there were no increases in contaminants of toxicological concern or a significant change in the guarantee of the active ingredient.

Environmental Assessment

An environmental assessment for Rival Technical Herbicide were not required as it is used only in the manufacture of an end use product, and since assessment was conducted on the technical grade active ingredient.

Value Assessment

A value assessment is not required for a manufacturing concentrate.

Conclusion

The PMRA has completed an evaluation of the subject application and has determined that Rival Technical Herbicide is eligible for registration.

References

A. List of Studies/Information Submitted by Registrant

PMRA Document Number: 1387324

Reference: 2006, Mass Spectrometric Investigation Into Impurities Detected In Trifluralin, Data Numbering Code: 2.13.2 Confidential Business Information

PMRA Document Number: 1387326

Reference: 2006, Trifluralin (pure Grade) PHysico-chemical Properties, Data Numbering

Code: 2.14.1,2.14.10,2.14.11,2.14.12,2.14.2,2.14.3,2.14.4,2.14.5,2.14.6,2.14.7,2.14.9
Confidential Business Information

PMRA Document Number: 1387325

Reference: 2006, Trifluralin (technical Grade) PHysico-chemical Properties, Data
Numbering Code: 2.14.1,2.14.13,2.14.2,2.14.3,2.14.6,2.14.8 Confidential Business
Information

PMRA Document Number: 1387321

Reference: 2006, Trifluralin Five-batch Analysis, Data Numbering Code:
2.13.1,2.13.2,2.13.3,2.13.4 Confidential Business Information

PMRA Document Number: 1387320

Reference: 2007, Trifluralin Product Identity And Composition, Data Numbering Code:
2.1,2.11.1,2.11.2,2.11.3,2.11.4,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 Confidential Business
Information

PMRA Document Number: 1387323

Reference: 2007, Trifluralin Storage Stability, Data Numbering Code: 2.14.14 Confidential
Business Information

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