

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2013-6944

Application: Changes to Technical Grade Active Ingredient Chemistry – New

source (site) same registrant

Product: Nufarm 2,4-D Dry Powder Acid Herbicide

Registration Number: 17134

Active ingredients (a.i.): 2,4-D (present as acid)

PMRA Document Number: 2450008

Purpose of Application

The purpose of this application was to merge three registered sources of 2,4-D under one registration number. The applicant was requesting to add/merge GroWell 2,4-D Technical Acid (Registration Number 17007) and Nufarm 2,4-D Technical Acid (Registration Number 24562) to 2,4-D Dry Powder Acid Herbicide (Registration Number 17134), herein called Nufarm 2,4-D Dry Powder Acid Herbicide.

Chemistry Assessment

Common Name: 2,4-D

IUPAC* Chemical Name: (2,4-Dichlorophenoxy)acetic acid CAS† Chemical Name: 2-(2,4-Dichlorophenoxy)acetic acid

Nufarm 2,4-D Dry Powder Acid Herbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.5%
Odour	antiseptic
Specific gravity at 20 °C	1.52
Vapour pressure	$1.1 \times 10^{-2} \text{Pa}$
рН	3.0 (1% w/v solution)
Solubility in water	311 mg/L (pH 1, 25°C)
n-Octanol/water partition	$\underline{\text{pH}}$ $\underline{\text{log } K_{\text{ow}}}$
coefficient	1 2.58-2.83



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

The chemistry requirements for Nufarm 2,4-D Dry Powder Acid Herbicide have been fulfilled.

Health, Environmental and Value Assessments

Health, environmental and value assessments were not required for this application.

Conclusion

The PMRA has reviewed all available information and found it sufficient to merge the three registered sources of 2,4-D under the one registration number for Nufarm 2,4-D Dry Powder Acid Herbicide. The two independent registrations, GroWell 2,4-D Technical Acid (Registration Number 17007) and Nufarm 2,4-D Technical Acid (Registration Number 24562), will be discontinued as they are now redundant.

References

PMRA	Reference
Document	
Number	
1316240	2003, Technical 2,4-D; Content in 2,4-D and its different components; Analytical profile of
	5 batches; [PRIVACY INFO REMOVED], DACO: 2.13.1,2.13.2,2.13.3 CBI
1342485	1995, (2,4-Dichlorophenoxy)acetic Acid Supplemental Data Study, DACO: 2.99
1343640	1998, Part 2 Chemistry; Final Report: Properties of 5 batches of 2,4-dichlorophenoxyacetic acid
	Proj ID/Study No: 98/0049; dioxin analysis, DACO: 2.13.1,2.13.2,2.13.3,2.13.4
1342708	1999, Chemistry 2,4-D Technical Acid, DACO: 2.1,2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12.1,
	2.12.2,2.13.1,2.13.2,2.13.3,2.13.4,2.2 CBI
1342513	Label; Chemistry: Nufarm 2,4-D Technical, DACO: 2.99
1377740	2003, [PRIVACY INFO REMOVED]; Manufacturing Process of 2,4-D TGAI,
	DACO: 2.11.1 CBI
1719469	2008, Analysis for Dioxins and Furans in 2,4-D, DACO: 2.13.4 CBI
1719458	2008, Analysis for Tetra to Octa-chlorinated Dioxins and Furans in 7 Batches of
	2,4-Dichlorophenoxyacetic Acid (2,4-D), DACO: 2.13.3,2.13.4 CBI
1698100	2008, Analysis for Dioxins and Furans in 2,4-D, DACO: 2.13.4 CBI

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