

Evaluation Report for Category B, Subcategory 1.1, 1.3 Application

Application Number: 2015-1977

Application: New / Changes TGAI or ISP Prod Chemistry-New Source(site)

same registrant and New / Changes TGAI or ISP Prod Chemistry-

Specifications

Product: NewAgco Glufosinate Technical

Registration Number: 30613

Active ingredients (a.i.): Glufosinate-ammonium

PMRA Document Number: 2605327

Purpose of Application

The purpose of this application was to amend the product NewAgco Glufosinate Technical by adding two new alternate sources and by modifying the manufacturing process.

Chemistry Assessment

Common Name: Glufosinate-ammonium

IUPAC* Chemical Name: Ammonium (2RS)-2-amino-4-(methylphosphinato)butyric acid 2-amino-4-(hydroxymethylphosphinyl)butanoic acid

monoammonium salt

NewAgco Glufosinate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	97.5%
Odour	Odourless
Density	1.2915-1.613 g/mL at 20°C
Vapour pressure	2.42 x 10 ⁻⁸ mPa (20°C)
	1.20 x 10 ⁻⁷ mPa (25°C)
рН	3.76-4.32 (1% aqueous solution)



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result
Solubility in water	644.4 g/L at 20°C
n-Octanol/water partition coefficient	$Log K_{ow} = <-1.43 (pH 7)$

The required chemistry data for NewAgco Glufosinate Technical have been provided, reviewed, and found to be acceptable.

Health Assessments

The proposed sources of Newagco Glufonisate Technical result in a product that is chemically equivalent to that of the previous source. Subsequently, no toxicological data were reviewed or are required.

Environmental and Value Assessments

Environmental and value assessments were not required for this application.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Newagco Glufonisate Technical, and has found the information sufficient to add new alternate sources and to modify the manufacturing process.

References

Studies/Information Provided by Applicant/Registrant

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Document	
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2534579	2014, Chemical and Physical Characterization of Glufosinate-ammonium TGAI:
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233 1302	Stability and Corrosion, DACO: 2.14.14 CBI
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	Density, DACO: 2.14.6
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	Solubility, DACO: 2.14.7,2.14.8
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	Trade Name for Newagco Glufosinate Technical, Reg. No. 30613, DACO: 2.1,2.2,2.3 CBI
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