

Evaluation Report for Category B, Subcategory 1.2 Application

Application Number: 2016-7016
Application: New Technical Grade Active Ingredient Product Chemistry – New Source (Site) New Registrant
Product: GH Glufosinate Ammonium
Registration Number: 32786
Active ingredient (a.i.): Glufosinate-ammonium
PMRA Document Number: 2753653

Purpose of Application

The purpose of this application was to register GH Glufosinate Ammonium, a new source of the active ingredient glufosinate-ammonium.

Chemistry Assessment

Common Name: Glufosinate-ammonium
IUPAC* Chemical Name: Ammonium (2*RS*)-2-amino-4-(methylphosphinato)butyric acid
CAS† Chemical Name: 2-amino-4-(hydroxymethylphosphinyl)butanoic acid monoammonium salt

GH Glufosinate Ammonium has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	96%
Odour	Odourless
Density at 20°C	1.2919 g/mL
Vapour pressure at 20°C	1.8 x 10 ⁻⁴ mPa
pH at 25°C	3.76
Solubility in water at 20°C	518.3 g/L
n-Octanol/water partition coefficient at 22°C	Log K _{ow} = < -1.43 (pH 7)

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

Health, Environmental and Value Assessments

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to support the registration of GH Glufosinate Ammonium.

References

PMRA Document Number	References
2695479	2016, DACO 2.1-2.9 product chemical info, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5, 2.6,2.7,2.8,2.9
2695480	2016, Manufacturing methods, DACO: 2.11 CBI
2695482	2013, Five batch analysis data, DACO: 2.12.1,2.13.1,2.13.2,2.13.3,2.13.4 CBI
2695483	2014, Chemical and Physical Reports, DACO: 2.14 CBI

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