



Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2018-1385
Application: Application Subject to the *Protection of Proprietary Interests in Pesticide Data* (PPIP) Policy – Equivalency/Data Compensation Assessment
Product: Amglufosinate Technical Herbicide
Registration Number: 33644
Active ingredient (a.i.): Glufosinate-ammonium
PMRA Document Number: 3016170

Purpose of Application

The purpose of this application was to register the technical grade active ingredient Amglufosinate Technical Herbicide, based on a precedent.

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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Amglufosinate Technical Herbicide has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	96.0%
Odour	Slightly pungent odour
Density	0.52 g/mL
Vapour pressure at 20°C	< 0.15732 mPa
pH	4.14
Solubility in water at 20°C	425-450 g/L (pH 5.5)

Property	Result
n-Octanol/water partition coefficient at 20°C	Log K _{ow} = -2.51

The required chemistry data for Amglufosinate Technical Herbicide 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 information provided, and has found the information sufficient to support the registration of Amglufosinate Technical Herbicide.

References

PMRA Document Number	Reference
2869121	2018, DACO 2.1-2.9, DACO: 2.1,2.2,2.3,2.3.1,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2869122	2018, Manufacturing Summary, DACO: 2.11.1 CBI
2869123	2014, Manufacturing process, Technical Glufosinate-ammonium, DACO: 2.11.2,2.11.3 CBI
2869124	2018, Manufacture Process of Glufosinate ammonium Tech, DACO: 2.11.2,2.11.3 CBI
2869125	2018, Justification for the impurities of Glufosinate-ammonium TC, DACO: 2.11.4 CBI
2869126	2018, Establishing Certified Limits, DACO: 2.12.1 CBI
2869127	2014, Glufosinate-ammonium: Validation of the Analytical Method for the Determination of the Active Ingredient Content, DACO: 2.13.1 CBI
2869128	2014, Glufosinate-ammonium: Validation of the Analytical Method for the Determination of the Significant Impurities Content, DACO: 2.13.1 CBI
2869129	2014, Glufosinate-ammonium: Validation of the Analytical Method for the Determination of the [CBI] Content, DACO: 2.13.1 CBI
2869130	2014, Glufosinate-ammonium: IC Screening for Anions Content in Five Batch Samples, DACO: 2.13.1, 2.13.2,2.13.3 CBI
2869131	2015, Preliminary Analysis of Glufosinate-ammonium TGAI, DACO: 2.13.1,2.13.2,2.13.3 CBI
2869132	2015, Preliminary Analysis of Glufosinate-ammonium TGAI, DACO: 2.13.1,2.13.2,2.13.3 CBI
2869133	2014, Glufosinate-ammonium: Spectroscopic Characterisation of Five Batch Samples, DACO: 2.13.3 CBI
2869134	2013, Glufosinate-ammonium TC Product Chemistry, DACO: 2.14.1,2.14.13,2.14.2,2.14.3,2.14.4,2.14.6 CBI
2869135	2015, Glufosinate-ammonium: Determination of the Physico-chemical Properties, DACO: 2.14.1,2.14.2, 2.14.3,2.14.6 CBI
2869136	2018, glufosinate-ammonium (Ref: HOE 039866), DACO: 2.14.10,2.14.12 CBI
2869137	2015, Glufosinate-ammonium: Determination of the Partition Coefficient (n-octanol/water), DACO: 2.14.11 CBI
2869138	2014, Glufosinate-ammonium TC Storage Stability with Corrosion Characteristics, DACO: 2.14.14 CBI
2869139	2015, Glufosinate-ammonium: Determination of the Melting Point, DACO: 2.14.4 CBI
2869140	2018, Boiling Point/Boiling Range, DACO: 2.14.5 CBI
2869141	2015, Glufosinate-ammonium Determination of Water Solubility, DACO: 2.14.7 CBI
2869142	2018, Solvent Solubility, DACO: 2.14.8 CBI
2869143	2015, Glufosinate-ammonium Determination of the Vapor Pressure, DACO: 2.14.9 CBI
2869144	2018, Samples of Analytical Standards and ROC, DACO: 2.15 CBI

PMRA Document Number	Reference
2916214	2018, Manufacture process of Glufosinate ammonium Tech [CBI Removed] DACO: 2.11 CBI
2916215	2018, Justification for the impurities of Glufosinate-ammonium TC (Corrected Sept. 11-2018), DACO: 2.11.4 CBI
2916216	2015, Preliminary Analysis of Glufosinate Ammonium TGAI, DACO: 2.13 CBI
2922584	2018, Justification for the impurities of Glufosinate-ammonium TC, DACO: 2.11.4 CBI
2922585	2012, Validation of Analytical Methodology for the Assay [CBI Removed] in Glufosinate-ammonium TGAI, DACO: 2.13.1 CBI
2952741	2013, Validation of Analytical Methodology for the Assay [CBI Removed] in Glufosinate-ammonium TGAI, DACO: 2.13.1 CBI
2952742	2012, Validation of Analytical Methodology for the Assay of [CBI Removed] in Glufosinate-ammonium TGAI, DACO: 2.13.1 CBI
2953440	2013, Validation of Analytical Methodology for the Assay of [CBI Removed] in Glufosinate-ammonium TGAI, DACO: 2.13.1 CBI
2953441	2012, Validation of Analytical Methodology for the Assay of [CBI Removed] in Glufosinate-ammonium TGAI, DACO: 2.13.1 CBI
3003560	2019, Preliminary Analysis and Enforcement Analytical Method of [CBI Removed] in Glufosinate, DACO: 2.13.4 CBI

ISSN: 1911-8082

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