

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2020-1310  
**Application:** Submission subject to the Protection of Proprietary Interests in Pesticide Data (PIIP) policy - Equivalency/Data Compensation Assessment  
**Product:** Nufarm Glufosinate Technical  
**Registration Number:** 34187  
**Active ingredient (a.i.):** Glufosinate-ammonium  
**PMRA Document Number:** 3200636

### Purpose of Application

The purpose of this application was to register Nufarm Glufosinate Technical, a new source of the technical grade active ingredient glufosinate-ammonium, based on a registered precedent.

### Chemistry Assessment

Common Name: Glufosinate ammonium  
IUPAC\* Chemical Name: ammonium [(3*RS*)-3-amino-3-carboxypropyl]methylphosphinate  
CAS† Chemical Name: 2-amino-4-(hydroxymethylphosphinyl)butanoic acid monoammonium salt

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Nufarm Glufosinate Technical has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	95 %
Odour	Odourless
Density	1.3790 g/mL
Vapour pressure	<0.031 mPa (50 °C)
pH	5.95 (1 % solution)

Property	Result
Solubility in water	pH
	<u>Solubility (g/L)</u>
	4.0 880.83
	7.0 874.06
	9.0 847.96
n-Octanol/water partition coefficient	log K <sub>ow</sub> : -2.22 at 25 °C

The required chemistry data for Nufarm Glufosinate Technical 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 Nufarm Glufosinate Technical.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3110212	2020, Glufosinate-ammonium Technical Synthesis Process, DACO: 2.11.1,2.11.2,2.11.3,2.11.4,2.2,2.4,2.5,2.7,2.8,2.9 CBI
3110213	2015, Qualitative and Quantitative Profile of the test substance Glufosinate-ammonium 95% Technical (Five Batch Analysis), DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3110214	2017, Determination of Colour of Glufosinate Ammonium 95% TC, DACO: 2.14.1
3110215	2017, Determination of Physical State of Glufosinate Ammonium 95% TC, DACO: 2.14.2
3110216	2017, Determination of Odour of Glufosinate Ammonium 95% TC, DACO: 2.14.3
3110217	2017, Determination of Melting Point/Melting Range of Glufosinate Ammonium 95% TC, DACO: 2.14.4
3110218	2017, Determination of Density and Specific Gravity of Glufosinate Ammonium 95% TC, DACO: 2.14.6
3110219	2017, Determination of Solubility of Glufosinate Ammonium 95% TC in Water, DACO: 2.14.7
3110220	2017, Determination of Solubility of Glufosinate Ammonium 95% TC in Organic Solvents, DACO: 2.14.8
3110221	2017, Determination of Vapour Pressure of Glufosinate Ammonium 95% TC, DACO: 2.14.9
3110222	2016, Determination of Dissociation Constant of Glufosinate Ammonium 95% TC in Water, DACO: 2.14.10
3110223	2017, Determination of Partition Coefficient of Glufosinate Ammonium 95% TC, DACO: 2.14.11
3110224	2017, Determination of UV-Visible Spectrum of Glufosinate Ammonium 95% TC, DACO: 2.14.12
3110225	2016, Determination of Corrosion Characteristics of Glufosinate Ammonium 95% TC with Packaging Material, DACO: 2.14.13
3110227	2016, Determination of Accelerated Storage Stability of Glufosinate Ammonium 95% TC with Packaging Material, DACO: 2.14.14
3110228	2017, Determination of pH of Glufosinate Ammonium 95% TC, DACO: 2.14.15,830.7000
3192662	2015, Raw Data for [CBI-removed] quantification, DACO: 2.13.4 CBI
3198306	2018, Qualitative and Quantitative Profile of the test substance Glufosinate-ammonium 95% Technical (Five Batch Analysis)-Amendment 4, DACO: 2.13.4 CBI

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