

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number: 2018-0237
Application: L.1.1: Submissions subject to PPIP policy - Equivalency/Data Compensation Assessment
Product: HF Glufosinate Ammonium 98%
Registration Number: 33487
Active ingredients (a.i.): Glufosinate Ammonium
PMRA Document Number: 2950190

Purpose of Application

The purpose of this application was to register a new source of 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

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

HF Glufosinate-ammonium 98% has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	98%
Odour	Odourless
Density	1.54-1.57 g/mL
Vapour pressure	0.00601 mPa (at 25 °C)
pH	4.39
Solubility in water	>500 g/L (pH 5–9, 20-25°C)
n-Octanol/water partition coefficient	log K _{ow} < -1.37 (22 °C)

The required chemistry data for HF Glufosinate-ammonium 98% have been provided, reviewed, and found to be acceptable.

The chemistry requirements for this product have been fulfilled.

Health, Environmental and Value Assessments

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

Conclusion

The PMRA has reviewed the information provided in support of the new source of glufosinate-ammonium. Based on the results of this review, the new source is acceptable for registration.

References

- 2840136 2018, DACO 2.1
2840137 2018, DACO 2.2
2840138 2018, DACO 2.3
2840139 2018, DACO 2.4
2840140 2018, DACO 2.5
2840141 2018, DACO 2.6
2840142 2018, DACO 2.7
2840143 2018, DACO 2.8
2840144 2018, DACO 2.9
2840145 2015, COLOUR, DACO: 2.14.1 CBI
2840146 2015, PHYSICAL STATE, DACO: 2.14.2 CBI
2840147 2015, ODOUR, DACO: 2.14.3 CBI
2840148 2015, MELTING POINT/MELTING RANGE, DACO: 2.14.4 CBI
2840149 2015, DENSITY OR SPECIFIC GRAVITY, DACO: 2.14.6 CBI
2840150 2015, SOLVENT SOLUBILITY (MG/L), DACO: 2.14.7,2.14.8 CBI
2840151 2015, VAPOUR PRESSURE, DACO: 2.14.9 CBI
2840152 2015, DISSOCIATION CONSTANT, DACO: 2.14.10 CBI
2840153 2015, OCTANOL/WATER PARTITION COEFFICIENT, DACO: 2.14.11 CBI
2840154 2015, UV/VISIBLE ABSORPTION SPECTRA, DACO: 2.14.12 CBI
2840155 2015, STORAGE STABILITY DATA, DACO: 2.14.13,2.14.14 CBI
2840156 2015, (pH), DACO: 2.14.15,830.7000 CBI
2840450 2015, CONFIRMATION OF IDENTITY, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
2840451 2018, MANUFACTURING METHODS FOR THE TGAI, DACO: 2.11 CBI
2907732 2015, update chemical and physical properties report, DACO: 2.14
2948040 2018, IMPURITIES OF TOXICOLOGICAL CONCERN, DACO: 2.13.4 CBI

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