

Glufosinate Ammonium Technical Herbicide Evaluation Report for Category B, Subcategory B.1.3 Application

Application Number: 2006-6852
Application: Category B, Subcategories B.1.3 (Changes TGAI Chemistry)
Product: Glufosinate Ammonium Technical Herbicide
Registration Number: 23178
Active ingredients (a.i.): Glufosinate Ammonium
PMRA Document Number: 1462284

Purpose of Application

The purpose of this Category B.1.3-S-A-TGAI submission is to convert the guarantee of the registered product (PCP# 23178) from 95% minimum to 95.5% nominal. There is a concurrent submission # (2006-6851) in-process for the manufacturing concentrate (MA). This submission is classified as a Category B

Chemistry Assessment

Common Name: Glufosinate Ammonium (AE F039866)
IUPAC Chemical Name: ammonium
 4-[hydroxy(methyl)phosphinoyl]-DL-homoalaninate;
 ammonium DL-homoalanin-4-yl(methyl)phosphinate
CAS Chemical Name: ammonium (\pm)-2-amino-4-(hydroxymethylphosphinyl)butanoate

has the following properties:

Property	Result
Colour and physical state	white crystalline solid
Nominal concentration	95.5%
Odour	slight pungent odour
Density	1.4 Kg/L
Vapour pressure	<0.01 mPa (at 20°C)
pH	7.0 \pm 1 (1% w/v)
Solubility in water	1370 g/L
n-Octanol/water partition coefficient	Log K_{ow} = <0.1 (pH 7.0)

The chemistry requirements for Glufosinate Ammonium Technical Herbicide are complete.

Health Assessments

FREAS can support the amendment to the specification form, as the increase of glufosinate ammonium from 95% minimum to 95.5% nominal, is not expected to have an impact on the magnitude of the residue. Since no new endpoints have been established a dietary risk assessment was not necessary.

Environmental Assessment

An environmental assessment was not required for this submission.

Value Assessment

A value assessment was not required for this submission.

Conclusion

The PMRA has completed an assessment of available information for glufosinate ammonium technical herbicide and has found the information sufficient to support the change in TGAI guarantee.

References List

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