

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2023-0117

Application: Changes to Technical Grade Active Ingredient Product Chemistry

New Source (Site) Same Registrant

Product: Retain Technical Powder

Registration Number: 25608

Active ingredient (a.i.): Aviglycine hydrochloride

PMRA Document Number: 3554096

Purpose of Application

The purpose of this application was to register a new manufacturing site for Retain Technical Powder.

Chemistry Assessment

Common Name: Aviglycine hydrochloride

IUPAC* Chemical Name: (2S,3E)-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride

(1:1) or (E)-L-2-[2-(2-aminoethoxy)vinyl]glycine

hydrochloride

CAS† Chemical Name: (2S,3E)-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride

(1:1)

Retain Technical Powder has the following properties:

Property	Result
Colour and physical state	Off-white powder
Nominal concentration	90.6%
Odour	Amine-like odour
Density	0.36-0.48 g/mL
Vapour pressure	N/A
рН	6.9 (1% solution)
Solubility in water	39.6-47.2 g/100 mL



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

Property	Result
n-Octanol/water partition coefficient	$\log K_{ow} = -4.36$

The required chemistry data for Retain Technical Powder 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 acceptable to support the registration of the new manufacturing site for Retain Technical Powder.

References

PMRA Document	
Number	Reference
3424349	2017, Method of Production and Quality Control for Aminoethoxyvinylglycine
	Hydrochloride (AVG - HCl), DACO:
	2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12.1 CBI
3424350	2017, Analysis of Five Lots of L-Alpha-(2-Aminoethyoxyvinyl) Glycine
	Hydrochloride Technical Grade Active Ingredient, DACO: 2.13,2.13.1,2.13.2,
	2.13.3
3439450	2004, Analysis and Certification of Product Ingredients in Five Batches of
	Technical Aviglycine Hydrochloride (ABG-3097), DACO: 2.13.1
3439452	2017, Recharacterization of [CBI removed] Reference Substance (Code No.
	ABG-3146, Lor No. V0041-074A), DACO: 2.13.1
3548153	2007, AVG_Tech_Re-CertReferenceStd(VBCL07-48060-04)_7-17-07, DACO:
	2.13.1

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