

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number: 2021-1844

Application: Changes TGAI Product Chemistry- New Source (site) same

registrant

Product: FBN Diquat Technical

Registration Number: 33325

Active ingredient (a.i.): Diquat, present as dibromide

PMRA Document Number: 3382491

Purpose of Application

The purpose of this application was to register a new source of FBN Diquat Technical by the same registrant.

Chemistry Assessment

Common Name: Diquat

IUPAC* Chemical Name: 6,7-dihydrodipyrido[1,2- *a*:2',1'-c]pyrazine-5,8-diium CAS† Chemical Name: 6,7-dihydrodipyrido[1,2-*a*:2',1'-*c*]pyrazinediium

FBN Diquat Technical has the following properties:

Property	Result
Colour and physical state	Clear burgundy
Nominal concentration	Diquat, present as diquat dibromide 21.76%
Odour	Odourless
Density	1.22-1.27 g/mL at 20°C
Vapour pressure	$1.01 \times 10^{-2} \mathrm{mPa} (\mathrm{at} 25^{\circ}\mathrm{C})$
рН	4.0 - 6.0
Solubility in water	300.60 g/L (at 20°C)
n-Octanol/water partition coefficient	log $K_{ow} \le$ -3.28 at 20.0°C and pH 5.48



^{*} International Union of Pure and Applied Chemistry

[†] Chemical Abstracts Service

The required chemistry data for FBN Diquat 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 a review of the information submitted and has found it sufficient to support the registration of a new source of FBN Diquat Technical.

References

PMRA	References
Document	
Number	
3225575	2019, Qualitative and Quantitative Profile of Diquat Technical (Five Batch
	Analysis), DACO: 2.13,2.13.1,2.13.2,2.13.3,2.13.4 CBI
3225576	2020, Synthesis and Impurities of Diquat Dibromide Technical Concentrate,
	DACO: 2.11,2.11.1,2.11.2,2.11.3 CBI
3274755	2021, DACO 2.13.4 Waiver Rationale, DACO: 2.13.4 CBI
3371800	2022, Declaration of Confirmation of [CBI Removed] DACO: 2.13.3 CBI

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