

Evaluation Report for Category L, Subcategory 1.1 Application

Application Number:	2023-0576	
Application:	Application Subject to Protection of Proprietary Interests in	
	Pesticide Data (PPIP) Policy – Equivalency/Data Compensation	
	Assessment	
Product:	Sinochem Diquat Technical	
Registration Number:	35162	
Active ingredient (a.i.):	Diquat, present as dibromide	
PMRA Document Number: 3538395		

Purpose of Application

The purpose of this application was to register Sinochem Diquat Technical, a new source of technical diquat, present as dibromide, based on a registered precedent product.

Chemistry Assessment

Common Name: Diqua	t dibromide
IUPAC* Chemical Name:	1,1'-ethylene-2,2'-bipyridyldiylium dibromide
CAS [†] Chemical Name:	6,7-dihydrodipyrido[1,2- <i>a</i> :2',1'- <i>c</i>]pyrazinediium dibromide

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Property	Result
Colour and physical state	Maroon liquid
Nominal concentration	21.94%
Odour	Aromatic (pyridine-like)
Density	1232 – 1236 g/L at 20°C
Vapour pressure	103.2 mPa at 20°C
рН	3.94 at 20.8°C
Solubility in water	Completely miscible at 30°C
n-Octanol/water partition coefficient	log K _{ow} < -5.08

Sinochem Diquat Technical has the following properties:



The required chemistry data for Sinochem 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 an assessment of the information provided, and has found the information acceptable to support the registration of Sinochem Diquat Technical.

References

PMRA Document	Reference
Number	
3435736	2022, Manufacturing process, DACO: 2.11.1,2.11.3,2.11.4 CBI
3435739	2019, Determination of Active Content and Impurity Profile of Diquat
	dibromide 40% TK, DACO: 2.13.1,2.13.2,2.13.3,2.13.4 CBI
3435740	2019, Determination of Physical-chemical properties of Diquat
	dibromide 40% TK, DACO: 2.14.1, 2.14.10, 2.14.11, 2.14.12,
	2.14.13, 2.14.14, 2.14.15, 2.14.2, 2.14.3, 2.14.5, 2.14.6, 2.14.7, 2.14.8,
	2.14.9
3529774	2022, Amendment of methodology validation, DACO: 2.13.1
3529775	2022, Storage stability, DACO: 2.14.14

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