

Evaluation Report for Category B, Subcategory 1.1 Application

Application Number:	2013-5894		
Application:	Changes TGAI Product Chemistry – New Sources (site) same		
	registrant		
Product:	Bumper (Propiconazole) Technical		
Registration Number:	27530		
Active ingredients (a.i.):	Propiconazole		
PMRA Document Number : 2449162			

Purpose of Application

The purpose of this application was to amend the registration of Bumper (Propiconazole) Technical by adding a new manufacturing site for the technical propiconazole.

Chemistry Assessment

Common Name:	Propiconazole
IUPAC* Chemical Name:	$1-\{[(2\Xi, 4\Xi)-2-(2, 4-dichlorophenyl)-4-propyl-1, 3-dioxolan-2-$
	yl]methyl}-1H-1,2,4-triazole
	OR
	(2RS,4RS;2RS,4SR)-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-
	dioxolan-2-ylmethyl]-1H-1,2,4-triazole
CAS [†] Chemical Name:	1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]- 1 <i>H</i> -1,2,4-triazole

* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Property	Result	
Colour and physical state	Yellow viscous liquid/solid	
Nominal concentration	94.5%	
Odour	Pungent musty-oily odour	
Density	1.32 g/mL	
Vapour pressure	1.3 × 10 ⁻⁵ Pa (20°C); 3.0 × 10 ⁻⁵ Pa (25°C); 1.4 × 10 ⁻³ Pa (50°C)	
рН	6.8 (1% solution)	
Solubility in water	150.2 mg/L	

Bumper (Propiconazole) Technical has the following properties:



Property	Result	
n-Octanol/water partition coefficient	<u>pH</u> 4.0 5.7 7.0 9.0	<u>Log K_{ow}</u> 3.63 3.66 3.72 3.67

The chemistry requirements for Bumper (Propiconazole) Technical have been fulfilled.

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 available information and is able to support the addition of a new manufacturing site for the technical propiconazole to the registration of Bumper (Propiconazole) Technical.

References

PMRA	References
Document	
Number	2012 Applicant Name and Office Address DACO: 21 CDI
2357403 2357404	2013, Applicant Name and Office Address, DACO: 2.1 CBI 2013, Propiconazole Technical: Description of Manufacturing Process, DACO:
2557404	2.11,2.11.1,2.11.2,2.11.3,2.11.4,2.12,2.12,1,2.13,2.13.1,2.13.2,2.13.3,2.13.4,2.2,2.
	2.11,2.11.1,2.11.2,2.11.5,2.11.4,2.12,2.12.1,2.15,2.15.1,2.15.2,2.15.5,2.15.4,2.2,2. 3,2.4,2.5,2.6,2.7,2.8,2.9 CBI
2357405	2008, Preliminary analyses of five representative production batches of
2557405	propiconazole technical grade active ingredient (TGAI) to determine %
	propiconazole and to quantify its associated impurities, DACO: 2.13.3,2.13.4 CBI
2357407	2009, Enforcement of Analytcal Method, DACO: 2.13.1,2.13.2,2.13.4 CBI
2357410	2013, UV/VIS Absorption Spectrum Infrared Absorption Spectrum Mass
2557110	Spectrum of Propiconazole, DACO: 2.14.12 CBI
2357411	2013, Accelerated Storage Stability of Propiconazole Technical, DACO: 2.14.14
200,111	CBI
2357412	2013, Propiconazole Vapour Pressure, DACO: 2.14.9 CBI
2357415	2001, Propiconazole Technical; pH, DACO: 2.14.15,830.7000 CBI
2357416	1994, Propiconazole Technical (MCW 309) : Relative Density, DACO: 2.14.6
	CBI
2357417	2013, Propiconazole Boiling Point/Thermal Stability, DACO: 2.14.5 CBI
2357418	2013, Dissociation Constant of Propiconazole Purified in Water, DACO: 2.14.10
	CBI
2357420	1995, MCW-309-Water Solubility, DACO: 2.14.7 CBI
2357421	2013, Partition Coefficient of Propiconazole Purified, DACO: 2.14.11 CBI
2479376	2014, [PRIVACY INFO REMOVED], DACO: 2.13.4 CBI

2492339 2014, Determination of [CBI REMOVED] in Propiconazole Technical, DACO: 2.13.4 CBI

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