

Section A5 Effectiveness against target organisms and intended uses: Active substance Propiconazole

Subsection (Annex Point)

Official
use only

5.1	Function (IIA5.1)	Propiconazole is a fungicide
5.2	Organism(s) to be controlled and products, organisms or objects to be protected (IIA5.2)	-
5.2.1	Organism(s) to be controlled (IIA5.2)	Fungi
5.2.2	Products, organisms or objects to be protected (IIA5.2)	Propiconazole showed a broad antifungal spectrum in in-vitro assays and was most active against <i>Penicillium citrinum</i> , <i>Chaetomium globosum</i> , <i>Cladosporium cladosporioides</i> , and to less extent against <i>Alternaria tenissima</i> , <i>Aspergillus niger</i> and <i>Aureobasidium pullulans</i> . The obtained results illustrate that the test substance has a broad antifungal spectrum and can be taken for mould control on plastics, e.g. PVC floorings.
5.3	Effects on target organisms, and likely concentration at which the active substance will be used (IIA5.3)	<p data-bbox="544 1227 1302 1346">5.3.1 Effects on target organisms (IIA5.3) Propiconazole inhibits the fungal growth and has no obvious effect on spore germination or penetration of the pathogen. Propiconazole inhibits the C-14 demethylation step in the ergosterol biosynthesis of fungi.</p> <p data-bbox="544 1458 1302 1749">5.3.2 Likely concentrations at which the A.S. will be used (IIA5.3) PT9: Concentrations: see document IIIB, section 5.10, Efficacy data. For PT 9: Parts 1 and 2 (reference: Wolf, 2008) PVC samples containing Propiconazole at doses ranging from 500 to 3000 ppm were almost completely resistant to fungal attack. For preservation of PVC flooring see detailed information in Doc IIB 3.2.1. The likely concentration of a.i. in PVC is 0.1% on weight.</p>
5.4	Mode of action (including time delay) (IIA5.4)	-
5.4.1	Mode of action	<p data-bbox="544 1906 1302 1973">Propiconazole inhibits the C-14 demethylation step in the ergosterol biosynthesis of fungi.</p> <p data-bbox="544 1984 1302 2045">All four isomers of propiconazole provide biological activity. The intrinsic activity of each isomer is different from pathogen to</p>

X

Section A5

Effectiveness against target organisms and intended uses: Active substance Propiconazole

		pathogen. The broad spectrum and high level of activity of propiconazole is the result of the combined activity of the single isomers.
5.4.2	Time delay	PT9: Propiconazole is used preventively. Time delay is not relevant in these uses.
5.5	Field of use envisaged (IIA5.5)	Include code(s) and term(s)
	MG02:	Propiconazole is used in products of the following Product Types:
	Preservatives	PT07: Film preservatives PT08: Wood preservatives PT09.3: polymerised materials preservatives
	Further specification	In the present dossier, only the use for PT9 is addressed.
5.6	User (IIA5.6)	
	Industrial	Yes
		Biocidal products (PT 9.3) with propiconazole as active are added during the vinyl floor production process to protect the product during its service life against fungal infestation.
	Professional	No
	General public	No
5.7	Information on the occurrence or possible occurrence of the development of resistance and appropriate management strategies (IIA5.7)	
5.7.1	Development of resistance	Resistance of Propiconazole to target organisms is not officially reported in this application field (polymerised materials preservatives. Due to the specific application field, the nature of the organisms and the frequency of treatment it is unlikely that resistance will be build up by the target organisms in a short time.
5.7.2	Management strategies	Based on the unspecific mode of action for IPBC The risk of resistance formation is regarded to be low in the intended use area and therefore management strategies need not to be developed.
5.8	Likely tonnage to be placed on the market per year (IIA5.8)	Confidential information

x

Evaluation by Competent Authorities	
<i>Use separate "evaluation boxes" to provide transparency as to the comments and views submitted</i>	
EVALUATION BY RAPporteur MEMBER STATE	
Date	18 May 2012
Materials and methods	[REDACTED]
Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	[REDACTED]
COMMENTS FROM ...	
Date	Give date of comments submitted
Results and discussion	Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion. Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Reliability	Discuss if deviating from view of rapporteur member state
Acceptability	Discuss if deviating from view of rapporteur member state
Remarks	