European Commission



CA-report and Proposed Decision of The Netherlands in the context of the Possible inclusion of Transfluthrin in Annex I of Council Directive 98/8/EC

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Identity of Active Substance

DOC IIIA/ SECTION A2

Subs (Anne	ection ex Point)		Official use only
2.1	Common name (IIA2.1)	Transfluthrin	ment
2.2	Chemical name (IIA2.2)	<u>IUPAC</u> : 2,3,5,6-tetrafluorobenzyl (1 <i>R</i> ,3 <i>S</i>)-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate or 2,3,5,6-tetrafluorobenzyl (1 <i>R</i>)- <i>trans</i> -3-(2,2-dichlorovinyl)-2,2,5 dimethylcyclopropanecarboxylate <u>CA</u> : (1 <i>R</i> - <i>trans</i>)-(2,3,5,6-tetrafluorophenyl)methyl 3-(2,2, ¹¹)	0011
		dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate <u>Other</u> : Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2- dimethyl-, (2,3,5,6-tetrafluorophenyl) methyl ester, (1R, 3S)	
2.3	Manufacturer´s development code number(s) (IIA2.3)	NAK 4455 AE 0035474	
2.4	CAS No and EC numbers (IIA2.4)	- xotege. T	
2.4.1	CAS-No	118712-89-3	X1
2.4.2	EC-No	EU Index No: 607-223-00-8 ELINCS No: 405-060-5	X1
2.4.3	Other	CIRAC No: 741	
2.5	Molecular and structural formula, molecular mass (IIA2.5)		
2.5.1	Molecular formula	$C_{15}H_{12}Cl_2F_4O_2$	
2.5.2	Structural formula	CI CI CI	
		Ö F	
2.5.3	Molecular mass	371.2 g/mol	
2.6	Method of manufacture of the active substance (IIA2.1)	Please refer to IIIA Confidential data, section A2.6	

Identity of Active Substance

DOC IIIA/ SECTION A2

2.7	Specification of the purity of the active substance, as appropriate (IIA2.7)	965 g/kg	96.5%		
2.8	Identity of impurities and additives, as appropriate (IIA2.8)	Please refer to IIIA Confidential data, section A2.8			
2.8.1	Isomeric composition	Please refer to IIIA Confidential data, section A2.8.1			
2.9	The origin of the natural a.s. or the precursor(s) of the active substance (IIA2.9)	Not relevant.	annus not be granted on		
]	Evaluation by Competent A	thorities		
	1	Use separate "evaluation boxes" to pr comments and views submitted	rovide transparency as to the		
	l	EVALUATION BY RAPPORTEU	R MEMBER STATE		

	EVALUATION BY RAPPORTEUR MEMBER STATE		
Date	January 2013		
Materials and methods	X1 water		
	The EU index no. and ELINCS no. refer to the 1R,trans and 1S,trans		
	configurations, which is not in agreement with the definition of transfluthrin, which is exclusively the 1R trans isomer. The CAS registry no. does refer to the		
	correct isomer.		
Conclusion	Acceptable		
Reliability tori	Not applicable.		
Acceptability JR	Acceptable.		
Remarks	None.		
G.	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		
	2 isons if actioning from their of tapportent memory state		
Acceptability	Discuss if deviating from view of rapporteur member state		

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DOC I A2.10 Annex F	DOC IIIA/ SECTION A2.10Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EECAnnex Point IIA2.10		
Subsec	ction		Official use only
2.10.1	Human exposure towards active substance	6 	Scument
2.10.1.1	Production	Production of active substance and formulated products Transfluthrin and the representative products, Baygon Moscurio Coil, Raid Portable Electric and Turbo 4 Seasons are manufactured and formulated outside of the EU. Therefore in the EU there are no human exposures associated with production/formulation of either the active substance or the formulated products.	
2 10 1 2	/01 Intended use(s)	Baygon Mosquito Coil	
1.	Professional Users	The intended use for the formulated product is intended for the amateur, home use only market. There are no professional users.	
2.	Non-professional Users including the general public	The proposed use of the product is as a mosquito coil which is ignited and then allowed to completely burn out.	
WARNIN	(i) via inhalational contact	Primary exposure (during application) Primary exposure to transfluthrin may occur by inhalation uptake of respirable vesidues and oral uptake of non-respirable residues. Mean event, exposures predicted using Consexpo Version 4.0 is 0.00515 mg/m ³ . Factoring in inhalation rates and bodyweights, the estimated inhalation and oral doses associated with use of a coil generated by ConsExpo 4.0 are for adults: 0.000341 mg/kg/d (acute inhalation), 0.000140 mg/kg/d (chronic inhalation), 0.0000419 mg/kg/d (acute non-respirable oral), and 0.0000172 mg/kg/d (chronic non-respirable oral). For children, the estimated inhalation and oral doses associated with use of a coil are: 0.000759 mg/kg/d (acute inhalation), 0.000312 mg/kg/d (chronic inhalation), 0.0000932 mg/kg/d (acute non- respirable oral), and 0.0000383 mg/kg/d (chronic non-respirable oral). Secondary exposure (post-application) The TNsG does not require an assessment of inhalation exposure post application. Measurements after the use of the mosquito coils containing transfluthrin are available. During the application period of about 7 hours, a mean concentration of transfluthrin of approx. 3 µg/m ³ air was detected. This airborne concentration reduced quickly to non detectable levels (<0.2 µg/m ³) within 2 hours after the end of application.	

DOC IIIA/ SECTION A2.10 Annex Point IIA2.10	Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, 1) amending Council Directive 67/548/EEC		
(ii) via skin contact	Primary exposure (during application) Direct dermal contact with the active substance in the formulated product will be negligible. The active substance is contained within a high carbon content inert matrix. Due to the relatively high log Pow, transfluthrin will preferentially adsorb to carbon in the coil matrix. Considering the very low active substance content (0.03%) and its dilution within the coil matrix, the potential direct dermal contact with transfluthrin will be negligible. Therefore an assessment of primary dermal exposure is not considered necessary.	Journent	
	Secondary exposure (post-application)		
	Following application, volatilized residues may condense out of the air and deposit on surfaces. Residues on surfaces present the opportunity for exposure via direct dermal contact with the residues and subsequent oral contact with residues transferred to the hands.		
	For adults, the estimated post-application dermal doses associated with use of a coil generated by ConsExpo 4.0 are: 4.98×10^{-6} mg/kg/d (acute) and 2.05×10^{-6} mg/kg/d (chronic). For children, the estimated post-application dermal doses associated with use of a coil are: 3.73×10^{-5} mg/kg/d (acute) and 1.53×10^{-5} mg/kg/d (chronic).		
	For children, oral uptake is estimated assuming that it corresponds to 10% of the skin exposure. Estimated post-application oral doses for children are estimated to be: 3.73×10^{-5} mg/kg/d (acute) and 1.53×10^{-5} mg/kg/d (chronic).		
(iii) via drinking water	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in surface water. Therefore contamination of drinking water will not occur.		
(iv) via food	The mean event indoor air concentration was higher from the use of the Raid Portable Electric than from Baygon Mosquito Coil (no deposition on to surfaces is assumed for Turbo 4 Seasons in accordance with the guidance provided within the TNsG) and therefore subsequent worst case calculations are presented for Raid Portable Electric only (see 2.10.1.2/02 below).		
(v) indirect via environment	The proposed use is for indoor and outdoor use (i.e. patio use). Environmental exposure will be negligible (see documents IIIA, 7.2.1, 7.1.2 and 7.3.2).		
2.10.1.2/02 Intended use(s)	Raid Portable Electric		
^N1. Professional Users	The intended use for the formulated product is intended for the amateur, home use only market. There are no professional users.		
2. Non-professional Users including the general public	The proposed use of the product is as a ready to use electric vapouriser for the domestic control of mosquitoes.		
(i) via inhalational contact	Primary exposure (during application) Primary exposure to transfluthrin may occur by inhalation uptake of respirable residues and oral uptake of non-respirable residues. The mean event transfluthrin concentration in air predicted by ConsExpo 4.0 was 0.00735 mg/m ³ .		

DOC IIIA/ SECTION A2.10 Annex Point IIA2.10	Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC		
	Factoring in inhalation rates and bodyweights, for adults, the estimated inhalation and oral doses associated with use of Raid Portable Electric are : 0.000484 mg/kg/d (acute inhalation), 0.000199 mg/kg/d (chronic inhalation), 0.0000603 mg/kg/d (acute non-respirable oral), and 0.0000248 mg/kg/d (chronic non-respirable oral). For children, the estimated inhalation and oral doses associated with use of Raid Portable Electric are: 0.00108 mg/kg/d (acute inhalation), 0.000135 mg/kg/d (acute non-respirable oral), and 0.0000554 mg/kg/d (chronic non-respirable oral).		
	Secondary exposure (post-application)		
	The TNsG does not require an assessment of inhalation exposure post application.		
(ii) via skin contact	Primary exposure (during application)		
	When used in accordance with the label instructions, direct contact with the formulated product will not occur as the refill containing the transfluthrin is handled via its plastic support and inserted in the slot between the grid and the fan.		
	Therefore, primary dermal exposure is not expected.		
	Secondary exposure (post@application)		
	Following application: volatilized residues may condense out of the air and deposit on surfaces. Residues on surfaces present the opportunity for exposure via direct dermal contact with the residues and subsequent oral contact with residues transferred to the hands.		
THE PO	For adults, the estimated post-application dermal doses associated with use of Raid Portable Electric generated by ConsExpo 4.0 are: 6.98×10^{-6} mg/kg/d (acute) and 2.87×10^{-6} mg/kg/d (chronic). For children, the estimated post-application dermal doses associated with use of Raid Portable Electric are: 5.22×10^{-5} mg/kg/d (acute) and 2.15×10^{-5} mg/kg/d (chronic).		
This document for	For children, oral uptake is estimated assuming that it corresponds to 10% of the skin (i.e., external dermal) exposure. Thus, estimated post-application oral doses for children are estimated to be: 5.22×10^{-5} mg/kg/d (acute) and 2.15×10^{-5} mg/kg/d (chronic).		
Giii) via drinking water	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in surface water. Therefore contamination of drinking water will not occur.		
(iv) via food	The proposed indoor use of transfluthrin (as Raid Portable Electric) with subsequent deposition and transference of residues from room surfaces to foodstuffs (sandwich of 150 cm^2 surface area), results in negligible potential residue levels in food which do not pose a risk to consumers (see document IIIA 6.15).		
	As an illustrative worst case, if it assumed that no cleaning of the surface takes place at all during the 150 days duration of product use and that a sandwich placed on the surface on day 150 receives 149 days worth of 100% dislodged residues from this surface and direct deposition of the active substance onto its upper surface over 1 day.		

DOC IIIA/ SECTION A2.10 Annex Point IIA2.10		Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC		
		The intakes would be 3.9 x 10^{-5} mg/kg bw/day (10 kg toddler) and 6.4 x 10^{-6} mg/kg bw/day (60 kg adult).		
	(v) indirect via environment	The proposed use is for indoor use. Environmental exposure will be negligible (see documents IIIA, 7.2.1, 7.1.2 and 7.3.2).		
2.10.1.2	/03 Intended use(s)	Turbo 4 Seasons		
1.	Professional Users	The intended use for the formulated product is intended for the amateur, home use only market. There are no professional users		
2.	Non-professional Users including the general public	The proposed use of the product is as a ready to use moth proofer to be used in closets.		
	(i) via inhalational	Primary exposure (during application)		
	contact	Primary exposure to transfluthrin may occur by inhalation uptake of respirable residues and oral uptake of non respirable residues. The mean event transfluthrin concentration in air through use of Turbo 4 Seasons predicted by ConsExpo 4.0 was 0.0154 mg/m3		
		Factoring in inhalation rates and bodyweights, for adults, the estimated inhalation and oral doses associated with use of Turbo 4 Seasons are 2.85×10^{-5} mg/kg/d (adults) and 5.77×10^{-5} mg/kg/d (children).		
		Secondary exposure (post-application) The TNsG does not require an assessment of inhalation exposure post		
	(ii) via skin contact	Not application. Not applicable. According to the TNsG, the only exposure scenario of interest for strips or cassettes placed in closed spaces is inhalation exposure associated with use of the product. Consequently, there is no post-application human exposure.		
	(iii) via drinking part water	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in the environment. Therefore contamination of drinking water will not occur.		
RUM	(iv) via Pood	Not applicable. According to the TNsG, the only exposure scenario of interest for strips or cassettes placed in closed spaces is inhalation exposure associated with use of the product. Consequently, there is \underline{no} post-application human exposure (i.e. from dislodgeable condensed residues).		
Pr.	(v) indirect via environment	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in the environment (see PECS in 2.10.2 below).		
2.10.2	Environmental exposure towards active substance			
2.10.2.1	Production	Production of active substance and formulated products		
		Transfluthrin and the representative products, Baygon Mosquito Coil, Raid Portable Electric and Turbo 4 Seasons are manufactured and		

DOC IIIA/ SECTION A2.10 Annex Point IIA2.10		Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC	
		formulated outside of the EU. Therefore in the EU there are no human exposures associated with production/formulation of either the active substance or the formulated products.	X
2.10.2.2	2/01 Intended use(s)	Baygon Mosquito Coil	cument
	Affected compartment(s):	The proposed <i>indoor</i> use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in soil, surface water and art (see PECs below).	0
		The proposed <i>outdoor</i> use of transfluthrin, with subsequent deposition directly to soil and surface water results in negligible concentrations in soil, surface water and air (see PECs below).	
	water	The proposed <i>indoor</i> use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in surface water.	
		The proposed <i>outdoor</i> use of transfluthrin, with subsequent deposition directly to surface water results in negligible concentrations in surface water	
	sediment	Predicted distribution to sludge (based on fate in STP, Appendix II, TGD, refined by EUSES) is 74.6% (compared to 23.2% in the water phase). Concentrations in sediment, resulting from negligible levels in surface water, will also be negligible.	
	air	The proposed indoor use of transfluthrin, with subsequent ventilation to outside results in negligible concentrations in air.	
		air results in negligible concentrations in air.	
	soil	The proposed <i>indoor</i> use of transfluthrin, with subsequent ventilation to outside, followed by atmospheric deposition of residues to soil results in negligible concentrations in soil.	
	nentfoll	The proposed <i>outdoor</i> use of transfluthrin, with subsequent deposition directly to soil results in negligible concentrations in soil.	
	Predicted concentration in the affected compartment(s)	An estimation of the expected concentrations of a.s. in the affected compartments, using the relevant algorithms in the TGD, are detailed in document IIB-1, section 3.3.5 and summarised below.	
WARI	water	$5.9 \times 10^{-11} \text{ mg/l}$ (realistic worst case)	
		$1.2 \times 10^{-8} \text{ mg/l}$ (illustrative worst case)	
	sediment	$6.4 \times 10^{-8} \text{ mg/kg} \text{ (realistic worst case)}$	
		$1.3 \times 10^{-9} \text{ mg/kg} (\text{illustrative worst case})$	
	air	\geq 9.1/ x 10 ⁻¹¹ (100m from source)	
	soil	6.8 x 10^{-11} mg/kg (realistic worst case) 3.4 x 10^{-10} mg/kg (illustrative worst case)	
3 10 3 /	(0) Inter Jod (-)	J.+ X 10 mg/kg (musualive worst case)	
2.10.2.2	2/02 Intended Use(S)	Raid Portable Electric	

DOC IIIA/ SECTION A2.10 Annex Point IIA2.10		Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC		
	Affected compartment(s):	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in soil, surface water and air (see PECs below).		
	water	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in surface water.		
	sediment	Predicted distribution to sludge (based on fate in STP, Appendix II, TGD, refined by EUSES, is 74.6% (compared to 23.2% in the water phase). Concentrations in sediment, resulting from negligible levels in surface water, will also be negligible.		
	air	The proposed indoor use of transfluthrin, with subsequent ventilation to outside results in negligible concentrations on air.		
	soil	The proposed indoor use of transfluthrin, with subsequent ventilation to outside, followed by atmospheric deposition of residues to soil results in negligible concentrations in soil.		
	Predicted concentration in the affected compartment(s)	An estimation of the expected concentrations of a.s. in the affected compartments, using the relevant algorithms in the TGD, are detailed in document IIB-2, section 3.3.5 and summarised below.		
	water	8.2 x 10^{-11} mg/l (realistic worst case) 3.3 x 10^{-8} mg/l (illustrative worst case)		
	sodimont	8.0×10^{-8} where (realistic worst case)		
	scument	$3.6 \times 10^{-5} \text{ mg/kg}$ (illustrative worst case)		
	air	1 3×10^{-10} (Clocal _{air} , as defined in TGD, 100m from source) 2.6 x 10^{-10} mg/m ³ (Clocal _{air} , as defined in TGD, 100m from source)		
	soil m ^{s Qo}	8.5 x 10 ⁻¹² mg/kg (realistic worst case)		
	unentor	1.7 x 10 ⁻¹¹ mg/kg (illustrative worst case)		
2.10.2.2	2/02 Intended use(s)	Turbo 4 Seasons		
WARNIN	Äffected compartment(s):	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in soil, surface water and air (see PECs below).		
	water	The proposed indoor use of transfluthrin, with subsequent deposition and transference of residues from room surfaces to wastewater, results in negligible concentrations in surface water.		
	sediment	Predicted distribution to sludge (based on fate in STP, Appendix II, TGD, refined by EUSES, is 74.6% (compared to 23.2% in the water phase). Concentrations in sediment, resulting from negligible levels in surface water, will also be negligible		
	air	The proposed indoor use of transfluthrin, with subsequent ventilation		

DOC IIIA/ SECTION A2.10	Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC			
Annex Point IIA2.10				
	to outside results in posicible concentrations in air			
	The proposed indeep use of transfluthrin, with subsequent contribution			
SOII	to outside, followed by atmospheric deposition of residues to soil results in negligible concentrations in soil.			
Predicted concentration in the affected compartment(s)	An estimation of the expected concentrations of a.s. in the affected of compartments, using the relevant algorithms in the TGD, are detailed in document IIB-2, section 3.3.5 and summarised below.			
water	No exposure			
sediment	No exposure			
air	7.7 x 10^{-11} mg/m ³ (realistic worst case) (clocal _{air} , as defined			
	1.54 x 10 ⁻¹⁰ mg/m ³ (illustrative worst case) of in TGD, 100m from source:			
soil	$5.02 \times 10^{-12} \text{ mg/kg}$ (realistic worst case)			
	1.0 x 10 ⁻¹¹ mg/kg (illustrative worstcease)			
	Evaluation by Competent Authorities			
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted				
	EVALUATION BY RAPPORTEUR MEMBER STATE			
Date	25-09-2007 ju ^{no}			
Materials and methods	2.10.1 Human exposure towards active substance.			
	Please defer to Doc IIB.			
	2.40.2 Environmental exposure towards active substance.			
Caralian (S	Please refer to Doc IIB.			
Conclusion thorn	Please refer to Doc IIB.			
Reliability	n.a.			
Acceptability	Please refer to Doc IIB.			
Remarks				
RUNN	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				

Table A2.101.201:	Summary of predicted	exposures through use of	f transfluthrin based products.
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	Raid Portable Electric					
	Acute/Seasonal Exposure (mg/kg/d)		Chronic (mg/	Exposure kg/d)		
	Adult Child		Adult	Child Rent		
Application: Inhalation	0.000484	0.00108	0.000199	0.000445		
Application: Oral	0.0000603	0.0000135	0.0000248	0.0000554		
Post-Application: Dermal	0.00000698	0.0000522	0.00000287	o ^{5⁵0.0000215}		
Post-Application: Oral	n.a.	0.0000522	n.a. we	0.0000215		
Integrated Exposure	0.000551	0.00132	0.000227	0.000543		
	Turbo	4 Seasons	egrai			
	Acute/Seasor (mg/l	nal Exposure kg/d)	Chronic (mg/	nic Exposure ng/kg/d)		
	Adult	Childson	Adult	Child		
Application: Inhalation	0.00002.85	0.0000577	0.00002.85	0.0000577		
Integrated Exposure	0.00002.85	0.0000577	0.00002.85	0.0000577		
	Bayg	on Coil				
	Acute/Seasonal Exposure		Chronic (mg/	Exposure kg/d)		
	Adult	Child	Adult	Child		
Application: Inhalation	0.000341	0.000759	0.000140	0.000312		
Application: Oral	0.0000419	0.0000932	0.0000172	0.0000383		
Post-Application: Dermal	0.00000498	0.0000373	0.00000205	0.0000153		
Post-Application: Oral	n.a.	0.0000373	n.a.	0.0000153		
Integrated Exposure	0.000388	0.000926	0.000159	0.000380		
WARTHING. THIS						

DOC IIIA/ SECTION 2.10/01 BPD Data set IIB/ Annex Point II2.10		Informati product	on relating to the exposure of the biocidal	
		1 REF	ERENCE	Official use only
11	Reference	Riegner K	(1996)	ocui
1.1	Kererence	Study of the in/on represe	e degradation and evaporation behaviour of transflucturin entative indoor surfaces.	
		BAYER AC Research an Report numb	G, Crop Protection Development, Institute of Metabolism d Residue Analysis, D-51368 Leverkusen & Bayerwerk. ber: MR-691/96. [BES Ref: MO-04-012339]	
		Dates of exp	erimental work: Not stated.	
		Unpublished	[*] ^v ^e ^v	
1.2	Data protection	Yes	st NOL	
1.2.1	Data owner	Bayer CropS	cience n ^{n¹¹}	
1.2.2			Hallo.	
1.2.3	Criteria for data protection	Data submit purpose of it	ted to the MS after 13 May 2000 on existing a.s. for the s entry into Annex I.	
2		GUIDELIN	ES at a start	
2 0 1	Cuidalina studu	Na	at a start and a start	
2.1	Guidenne study	NO	NOT	
2.2	GLP	No	1 ¹²	
2.3	Deviations	Not applicab	le	
		3 MAT	ERIALS AND METHODS	
3.1	Test Material	Radiolabelle purity of 99.	d transfluthrin {[¹⁴ C]NAK 4455} with a radiochemical 5%. The specific activity was 3.9 MBq/mg.	
	documentfoli	[¹⁴ C]NAK 4 base that is u did not use otherwise us	455 was applied using a blank formulation with an aqueous used in similar form in spray cans. However, this experiment the propane and butane (propellant gases and solubilizers) ed in the formulation, consequently [¹⁴ C]NAK 4455 had not	
	This	completely c	lissolved in the application formula used.	
3.2	Fest system	The followin	g surface materials were used:	
WAR		Material Carpet	Description Velour carpet with Hessian backing. Exposed pieces 1 x 1 cm, 5 pieces per sample.	
		PVC	Untreated PVC floor covering. Exposed pieces 1 x 1 cm, 5 pieces per sample.	
		Wall	Pre-pasted coarse fibre wall paper. Exposed pieces 1 x 1	
		paper Wood	cm, 5 pieces per sample. Chips of untreated pine.	
		Varnish	EISODUR® coloured varnish, silk-matt, topcoat with an	
			alkyl resin base. The varnish was applied to glass. After	
		Glass	Microscope slide.	

Document IIIA, Section 2

DOC IIIA/ SECTION 2.10/01 Information relating to the exposure of the biocidal product

BPD Data set IIB/ Annex Point II2.10

3.3	Exposure and monitoring	The samples were exposed under room conditions in conical flasks in the laboratory. The conical flasks were fitted with air-permeable traps which allowed volatile compounds such as ¹⁴ CO ₂ and/or organic volatile compounds to be collected. The duration of exposure was 0, 10, 21 and 90 days.	ument
3.4	Analytical method	The amount of radioactivity on the material samples and the amount of organic volatile compounds in the ethyl extracts and the amount of $^{14}CO_2$ in the cocktails were determined by liquid scintillation measurement (LS). To determine the content of active substance, the extracts of the material samples were investigated by thin-layer chromatography. The "start zone activity" observed during the analysis with the first TLC method was chromatographed using a second thin-layer.	
		4 RESULTS AND DISCUSSION	
	.sdocument forms f	Slight decomposition of the active substance of an average of 8% after 90 days could be found only inon wallpaper, wood, varnish and glass. The reduction in the active substance content on surfaces was affected much more by evaporation, and this was determined semi- quantitatively. About 3 weeks after application, the amount of recoverable active substance on wallpaper, wood, varnish and glass had fallen on average to 50 % of the starting amount. This process took place rather more slowly with wallpaper and wood and rather faster with varnish and glass; a finding which can be ascribed to the different evaporation behaviour. Only unchanged active substance evaporated and virtually no evaporation from carpet or PVC could be measured. One problem was the inhomogenous distribution of the active substance in the application solution. However, as the study was aimed at recognition of possible decomposition of transfluthrin and not at the quantitation of evaporation this issue was acceptable.	
WARN	NG. THE		

DOC IIIA/ SECTION 2.10/01 Information relating to the exposure of the biocidal product

BPD Data set IIB/ Annex Point II2.10

5 APPLICANT'S SUMMARY AND CONCLUSION surfaces such as carpet, PVC, wallpaper, wood, varnish and glass at any outperfusion behavior [¹⁴C]NAK 4455 under laboration behavior in the surface such as carpet, PVC, wallpaper, wood, varnish and glass at any outperfusion behavior in the surface such as the suc 5.1 Materials and methods vasi days. 5.2 Conclusion The active substance evaporated much more quickly wallpaper, wood, varnish and glass than it is broken down by chemical conversion. By contrast, in carpet and PVC only very slight decomposition could be found but very little evaporation. Here the adsorption / absorption

Information relating to the exposure of the biocidal **DOC IIIA/ SECTION** product

BPD Data set IIB/ Annex Point II2.10

2.10/01



Document IIIA, Section 2

Information relating to the exposure of the biocidal **DOC IIIA/ SECTION** product 2.10/01

BPD Data set IIB/ Annex Point II2.10

Date	Give date of comments submitted
Results and discuss	n 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	2eo or
Table 2.10 (01)-01:	ecovery in/on the material samples
NT N	

Table 2.10 (01)-01: Recovery in/on the material samples

	Material	Recovery (% of applied radioactivity)			
		Day 0*	Day 10	Day 21	Day 9
1	Carpet	100.3	100.6	NA	108.8
2	PVC	96.1	2°100.3	NA	109.2
3	Wallpaper	56.7	<u>∼</u> 70.1	60.1	25.2
4	Wood	99.1	50.8	62.7	37.1
5	Varnish	89.2	28.2	38.2	61.7
6	Glass	88.8	33.8	50.8	38.4
Mean (Materials 3 -	- 6)	83	64	53	41
* Proc	ressing after about 2 ho	NIKS -			

DOC IIIA/ SECTION 2.10/02 BPD Data set IIB/ Annex Point II2.10		Information relating to the exposure of the biocidal product	
		6 REFERENCE	Official use only
6.1	Reference	Konig, T., (1996)	occ
		Experiment to draw up balance sheets for the residue of transfluthrin (NAK 4455) after its use indoors. BAYER AG, Pesticides Development, Institute of Metabolism Research and Residue Analysis, D-51368 Leverkusen – Bayerwerk.	
		Report number: MR-569/96. [BES Ref MO-03-01512].	
		Dates of experimental work: Not stated.	
		Unpublished	
6.2	Data protection	Yes	
6.2.1	Data owner	Bayer CropScience	
6.2.2		. stion	
6.2.3	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I.	
7		GUIDELINES of the second	
7.1	Guideline study	No	
7.2	GLP	No	
7.3	Deviations	Not applicable	
		8 रू [®] MATERIALS AND METHODS	
8.1	Test Material	Baygon® Master (membrane vapourizer), 37.5% by weight transfluthrin.	
8.2	Test system nt	The measurements were made in an experiment room approximately 17 m^2 in size with a volume of 52.4 m^3 . The room was furnished only with a cabinet and two laboratory tables. The floor was covered with PVC and the walls, ceiling and floors were lined with paper tissues.	
WARN	^{146.}	The room was entered only once during the experiment for the purpose of sampling the air. The windows remained closed throughout the period of the experiment. The door was sealed with adhesive tape in order to prevent any air exchange as far as possible.	
8.3	Exposure and monitoring	The transfluthrin content in the room air was determined throughout the 24 hour application period. The quantity applied was determined by a differential weighing of the Baygon® Master refills.	
8.4	Analytical method	The air, paper tissue samples and rinsings from the Genius evaporator were analysed using gas chromatography with an electron capture	Х

DOC IIIA/ SECTION 2.10/02 Information relating to the exposure of the biocidal product

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detection (ECD) system according to an unpublished in-house method.

9 RESULTS AND DISCUSSION

The results of the measurements on the room show that a concentration of approximately 4 μ g/m³ was reached after approximately 1 hour. Approximately 6 hours after the beginning of the application, the transfluthrin concentration was between 6 and 8 μ g/l and remained so until the end of the experiment (the evaporation oven was switched off after 24 hours).

Analysis of the paper tissue showed that considerable minor quantities of active agent, averaging around 150 μ g/m², were found on the floor, on the ceiling, and on the two walls adjacent to the wall on which the Genius evaporator was installed. The mean value on the wall facing the application wall was about 250 μ g/m².

7.1 mg of transfluthrin was recovered from the Genius evaporator oven.

The quantity of transfluthrin consumed during the experiment was determined with a differential weighing of the refill before and after the experiment. The consumption of the formulation over the 24-hour period of the experiment was approx. 117 mg. An analysis of the transfluthrin content in the formulation after the application gave a value of 38.5%. This approximately corresponded to the content of 37.5% stated in the specification. A total applied quantity of 45.0 mg of transfluthrin was calculated from the stated quantities.

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Information relating to the exposure of the biocidal **DOC IIIA/ SECTION** product 2.10/02

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10 APPLICANT'S SUMMARY AND CONCLUSION

- means of an evaporation oven, a Baygon® Master evaporator wasooutlet operated in a closed room for 24 hours. Throughout the poried of the pori 10.1 Materials and methods adsorbed on to walls, floor and ceiling was determined by means of paper tissues with which the room had previously been lined 5
- The results of the analyses showed that the largest grantities of active 10.2 Conclusion agent transfluthrin (> 10 000 μ g/m²) were found on the wall immediately above the evaporation oven (chinney effect). The other wall surfaces displayed a markedly lower burden (approximately 100 -200 μ g/m²). The concentrations in the room air throughout the period of the experiment were approximately $6 \times 8 \mu g/m^3$. In total, approximately 60% of the evaporated quantity could be recovered.

Information relating to the exposure of the biocidal **DOC IIIA/ SECTION** product

BPD Data set IIB/ Annex Point II2.10

2.10/02

	Evaluation by Competent Authorities
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	6-6-2007
Materials and methods	3.4 Analytical method:
	Samples were analysed using an unpublished in-house method (00277). However, no study report on this method or its validation is included in the Dossier. Only in Doc IIA of the applicant, concise information is presented.
	Since the information from this study is not used in the risk assessment, no additional information is required.
Conclusion	Acceptable
Reliability	2 istai
Acceptability	Acceptable, data were not used.
Remarks	None.
	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	

Table 2, 10 (02)-01: Total quantitiy of transfluthrin recovered

WA	Total quantity of transfluthrin
	(mg)
Room air (7.5 μ g/m ³ at end of application)	0.4
Floor, ceiling $(150 \ \mu g/m^2)$	5.1
Wall A (150 μ g/m ²)	2.3
Wall B (250 µg/m ²)	2.8
Wall C (150 µg/m ²)	2.3
Wall D (application)	6.0
Genius evaporator after application	7.1
Total	26.0

Table 2.10 (02)-02: Results of air measurements (µg/m³)

DOC 1 2.10/03	IIIA /SECTION 3	Information relating to the exposure of the biocidal product
BPD Data set IIB/ Annex Point II2.10		
		11 REFERENCE Official use only
11.1	Reference	Konig, T., (1994)
		Provisional Results on the desorption behaviour of NAK 4455
		BAYER AG, Pesticides Development, Institute for Product Information and Residuum Analysis, Monheim.
		Report number: RA 060/94. [BES Ref MO-03-01156].
		Unpublished
11.2	Data protection	Yes
11.2.1	Data owner	Bayer CropScience
11.2.2		NET
11.2.3	Criteria for data protection	Data submitted to the MS after 13. May 2000 on existing a.s. for the purpose of its entry into Annex I.
12		GUIDELINES
12.1	Guideline study	No
12.2	GLP	No other
12.3	Deviations	Not applicable of
		13 MATERIALS AND METHODS
13.1	Test Material	Aerosol can (specification: 0.05% NAK4455, 69.95% isopropanol, 30.00% propane/butane (15:85), ball valve 1 x 020 Buna SH65.040 ST.
13.2	Test system toth	The experiment was carried out in the $1m^3$ glass chambers. Two plates of different materials (each 15 x 15 cm = 225 cm ²) were placed in each of the glass chambers. The materials used were: glass, ceramic, wood, PVC, carpet, paper.
13.3 NARNI	Exposure and monitoring	Prior to being placed in the glass chambers the two plates were sprayed with NAK 4455. Spraying height: approx. 20 cm, spraying speed: approx. 50 cm/sec.
		The chamber was kept closed throughout the experiment (no air exchange) and air samples were taken at intervals of one day in each case. The first sampling took place 24 hours after placing the plates in the chamber, the last sampling after one week

13.4 Analytical method

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DOC IIIA /SECTION 2.10/03		Information relating to the exposure of the biocidal product			
BPD Data set IIB/ Annex Point II2.10					
		14 RESULTS AND DISCUSSION	ent		
		15 APPLICANT'S SUMMARY AND CONCLUSION			
15.1	Materials and methods	Two plates of different materials previously sprayed with NAK 4455 (each 15 x 15 cm = 225 cm ²) were placed in each of 10^{m^3} glass chambers. The chamber was then kept closed throughout the experiment (no air exchange) and air samples were taken at intervals of one day in each case. The first sampling took place 24 hours after the placing of the plates in the chamber, the last sampling after one week. The following materials were employed: glass, ceramic, wood PVC, carpet, paper.			
15.2	Conclusion	With the exception of carpet, there was a correlation between the quantity of NAK 4455 introduced into the chamber and the observed concentration in the room air, though the quantities measured in the room air make up only a small fraction of the introduced quantities. Differences in the behaviour of carpet and paper and glass, ceramic, wood and PVC were observed. For glass, ceramic, wood and PVC the concentration in the room air could be observed for carpet and paper during the fast three to four days after exposure. After a week, the concentrations were still at the initial level. This indicates a strongly delayed release of the quantity of active agent from both carpet and paper.			
15.2.1	Reliability	2			
NARA	Deficiencies ent ⁶⁰	Not applicable.			

Information relating to the exposure of the biocidal **DOC IIIA /SECTION** product

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2.10/03

	Evaluation by Competent Authorities
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	6-6-2007
Materials and methods	3.4 Analytical method:
	No information is given (neither in the summary or in the study report).
	The submitted report (1994) discusses the provisional results and is very concise.
Conclusion	Study report is too concise to evaluate. Since the information from this study is not used in the risk assessment, no additional information is required.
Reliability	2 railot
Acceptability	Acceptable.
Remarks	None.
	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	
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DOC IIIA /SECTION 2.10/04		Information relating to the exposure of the biocidal product		
BPD Data set IIB/ Annex Point II2.10				
			Official	
		16 REFERENCE	use only	
16.1	Reference	Konig, T., (1993)	50	
		Establishment of room air concentration and user exposure when NAK 4455 is applied in spray cans. BAYER AG, Pesticides Development, Institute for Product Information and Residuum Analysis, Bayerwerk. Report Number:. RA 349/93. [BES Ref MO-03-010192].		
		Dates of experimental work: Not stated.		
		Unpublished		
16.2	Data protection	Yes		
16.2.1	Data owner	Bayer CropScience		
16.2.2		onne		
16.2.3	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I		
17		GUIDELINES		
17.1	Guideline study	No		
17.2	GLP	No		
17.3	Deviations	Not applicable		
10.1		18 WATERIALS AND METHODS		
18.1	Test Material	Adminium spray cans (Lasercap version) filled with batch FL 31646/4169 (transfluthrin content 0.04%).		
18.2	Test system	The measurements were made in two experiment rooms approximately 14 m^2 in size with a volume of 42.86 m ³ . The room was furnished only with a cupboard, table and two padded chairs. The floor was covered with PVC.		
RN	NG. THIS	The room was entered only for the purpose of taking samples during the test and the windows remained closed throughout the period of the experiment.		
м ^{ч~} 18.3	Exposure and monitoring	Transfluthrin was sprayed into each room for about 8 seconds following the manufacturer's application instructions for the control of flying, insects (2 sec./10 m ³). During spraying and at suitable time intervals after the treatment, air samples were taken and analysed for transfluthrin. The quantity sprayed was determined by a differential weighing of the spray cans.		
		pumps.		

18.4 Analytical method The air samples were analysed using gas chromatography with an X

Information relating to the exposure of the biocidal **DOC IIIA /SECTION** product 2.10/04 **BPD Data set IIB/ Annex Point II2.10** electron capture detection (ECD) system according to an unpublished document in-house method. 19 **RESULTS AND DISCUSSION** In both test rooms similar distributions of the room air concentrations were noted. The starting concentrations for both rooms were in the range of 136 to 148 µg/m³ but in one room one pump varied considerably from the other figures (85 μ g/m³), which may be attributable to a fault during the first measurement. There was a distinct decrease in concentrations for all four pumps for all other measurements. The concentrations had already fallen to approx. 10% of the starting concentration in the second half hour after application. The room air concentration of transfluthrin in both rooms was in the range of the detectable limit of $0.1 \ \mu\text{g/m}^3 24$ hours after application. APPLICANT'S SUMMARY AND CONCLUSION 20 Transfluthrin (0.04%) was sprayed into two experiment rooms 20.1 Materials and approximately 14 m²oin size with a volume of 42.86 m³. The room was methods furnished only with a cupboard, table and two padded chairs. The floor was covered with PVC. The room was entered only for the purpose of taking samples during the test and the windows remained closed throughout the period of the experiment. ð The measured room air concentration was of the order of 130 to 150 20.2 Conclusion $\mu g/m^3$ (spray length about 8 seconds = 6 to 7 mg NAK 4455/test room) immediately after application, but had fallen after only half an hour to approx. 10% of the starting concentration. The concentrations were in the range of the detectable limit of $0.1 \,\mu\text{g/m}^3 24$ hours after application. Reliability 2 Deficiencies Not applicable.

Information relating to the exposure of the biocidal **DOC IIIA /SECTION** product

BPD Data set IIB/ Annex Point II2.10

2.10/04

	Evaluation by Competent Authorities
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	6-6-2007
Materials and methods	3.4 Analytical method:
	Samples were analysed using an unpublished in-house method (00277). However, no study report on this method or its validation is included in the Dossier. Only in Doc IIA of the applicant, concise information is presented.
	The applicant is requested to submit a study report on this method and on its validation.
Conclusion	Acceptable. Since the information from this study is not used in the risk assessment, no additional information is required.
Reliability	
Acceptability	Acceptable.
Remarks	None.
	COMMENTS FROM
-	COMMENTS BROM
Date	Give date of comments submitted
Results and discussion	Discuss additional relevant discrepancies referring to the (sub)heading numbers
	Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Reliability toth	Discuss if deviating from view of rapporteur member state
Acceptability un	Discuss if deviating from view of rapporteur member state
Remarks	
G.	

Table 2.10	(04)-01:	Room air	measurement

Time	Pump 1 Test room 1 (µg/m ³)	Pump 2 Test room 1 (µg/m ³)	Pump 1 Test room 2 (µg/m ³)	Pump 2 Test room 2 (µg/m ³)
Before application	0	0	0	0
0 – 10 min	140	134	148	85
10 – 20 min	36	34	50	41
20 – 30 min	20	24	26	21
30 min – 1 h	9	11	18	13
1 – 2 h	3.1	3	5.8	5
2 - 3 h	1.3	1.7	2.1	2.4

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3 – 4 h	0.9	1.5	0.9	0.9
7 – 8 h	0.4	0.5	0.4	0.3
23 – 24 h	<0.1	<1.0	0.13	0.11

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DOC IIIA /SECTION 2.10/05		Information relating to the exposure of the biocidal product		
BPD Data set IIB/ Annex Point II2.10				
			065-51	
		21 REFERENCE	use only	
21.1	Reference	Konig, T., (1993)	, , , , ,	
		Determination of room air concentration of NAK 4455 when most coils containing NAK 4455 are used. BAYER AG, Crop Protection Research, Institute for Product Information and Residue Analysis, Monheim.		
		Report Number: RA 150/93. [BES Ref MO-03-010197]		
		Dates of experimental work: Not stated.		
21.2	Data protection	Yes		
21.2.1	Data owner	Bayer CropScience		
21.2.2		ration		
21.2.3	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I.		
22		GUIDELINES of the		
22.1	Guideline study	No		
22.2	GLP	No wa ^{ion}		
22.3	Deviations	Not applieable		
		ع المحمد علي 23 من 23		
23.1	Test Material	Mosquito coil.		
23.2	Test system tom	The measurements were made in two experiment rooms approximately 14 m^2 in size with a volume of 42.86 m ³ . The room was partly furnished with a cupboard, desk, side table and two upholstered chairs. The floor was covered with PVC.	Х	
NARNI	NG. THIS	The room was entered only for the purpose of taking samples during the test. One window remained open and the rooms were kept at a temperature of 20 $^{\circ}$ C throughout the period of the experiment.		
23.3	Exposure and monitoring	A mosquito coil was placed approx 30 cm from the floor, ignited, then allowed to completely burn out. The application lasted 7 hours. Samples were taken of the air at two points in each of the rooms using pumps.		
23.4	Analytical method	The air samples were analysed using gas chromatography with an electron capture detection (ECD) system according to an unpublished in-house method.	Х	

Information relating to the exposure of the biocidal **DOC IIIA /SECTION** product 2.10/05 **BPD Data set IIB**/ **Annex Point II2.10** 24 **RESULTS AND DISCUSSION** Transfluthrin room air concentration ranged between 1.6 and 3.7 µg/m³ during application. Just two hours after the end of application, the concentration fell below the detectable limit of 0.2 ug/m³. The recovery rates revealed by analysis were between 78 and 100% APPLICANT'S SUMMARY AND CONCLUSION 25 25.1 Materials and A mosquito coil was placed approx 30 cm from the floor, ignited, then methods allowed to completely burn out. The application lasted? hours. Samples were taken of the air at two points in each of the rooms using pumps. The measurements were made in two experiment rooms approximately 14 m² in size with a volume of 42.86 m³. Theorom was partly furnished with a cupboard, desk, side table and two upholstered chairs. The floor was covered with PVC. The room was entered only for the purpose of taking samples during the test. One window remained open and the rooms were kept at a temperature of 20 °C throughout the period of the 200 experiment. 20 Transfluthrin room air concentration ranged between 1.6 and 3.7 $\mu g/m^3$ 25.2 Conclusion during application. Just two hours after the end of application, the concentration fell below the detectable limit of 0.2 ug/m³.

Information relating to the exposure of the biocidal **DOC IIIA /SECTION** product

BPD Data set IIB/ Annex Point II2.10

2.10/05

	Evaluation by Competent Authorities		
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted		
	EVALUATION BY RAPPORTEUR MEMBER STATE		
Date	6-6-2007		
Materials and methods	3.2 Test system:		
	During the test one window of each room was left open in other, similar tests provided by the applicant, the windows were closed, during the whole experiment. This appears to be contradictory		
	3.4 Analytical method:		
	Samples were analysed using an unpublished in-house method (00277). However, no study report on this method or its validation is included in the Dossier. Only in Doc IIA of the applicant, concise information is presented.		
Conclusion	Acceptable, despite the lack of information on the Method of Analysis.		
	ConsExpo calculations by the RMS using default values and the dimensions of the room in this study yielded similar air concentrations as were measured by the authors of this study. These experimentally determined concentrations were therefore only used for "validating" purposes.		
Reliability	2 200		
Acceptability	Acceptable.		
Remarks	at o		
nt forms	COMMENTS FROM		
Date _{cume}	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			

Table 2.10 (05)-01: Room air measurement

Application period	Transfluthrin (µg/m ³) Test room 1	Transfluthrin (μg/m³) Test room 2	
Before application	<0.2	<0.2	
0 - 1 h after start of application	1.9	1.6	
1 -2 h after start of application	2.5	2.0	
2 - 3 h after start of application	2.4	2.6	
3-4 h after start of application	1.7	1.6	ent
4-6 h after start of application	3.7	3.1	CUTT
6 - 7 h after start of application	2.2	1.7	600
0-1 h after end of application	0.3	0.4	e this
1-2 h after end of application	<0.2	*	
17 – 18 h after end of application	<0.2	<0.2	Wash.
WARMING: This document forms part of an	EU evaluation data package. Pe	ostation must not be gran.	