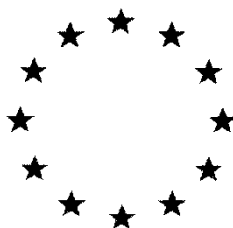


European Commission



**Draft Renewal Assessment Report prepared according to the Commission
Regulation (EC) N° 1107/2009**

Metconazole

Volume 3 – B.2 (PPP) – BAS 555 01 F

Rapporteur Member State : Belgium
Co-Rapporteur Member State : United Kingdom

Version History

When	What
January 2004	<p>Initial DAR</p> <p>Draft Assessment Report (DAR) – prepared in the context of the application for the first inclusion of the a.s. in Annex I to Council Directive 91/414/EEC.</p> <p>Various addenda were issued in August 2004, January and September 2005.</p>
2018-01-31	<p>Draft Renewal Assessment Report (DRAR) – prepared in the context of the application for renewal of approval of the a.s. according to Reg (EU) No EU 844/2012.</p> <p><i>Note: The RAR is a stand-alone document containing the evaluations already displayed in the original DAR, as well as the new assessments. The revision of the initial DAR has been done in accordance with SANCO/10180/2013 rev.1 (March 2013), with changes to the original text – resulting from assessment of new studies (or reconsideration of old studies or studies that were not yet previously peer-reviewed) – being highlighted by means of yellow shading. However, for the renewal of the a.s., a new formulation is proposed as representative formulation. Data submitted on the formulation 'BAS 555 01 F' were therefore not evaluated in the initial DAR and are presented and evaluated in this document.</i></p>

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B.2. PHYSICAL AND CHEMICAL PROPERTIES OF THE PLANT PROTECTION PRODUCT BAS 555 01 F

All studies have been performed in accordance with the current requirements and the results are deemed to be acceptable. The appearance of the product is that of an off-white hazy slightly viscous liquid free from foreign matter. It is not explosive, has no oxidising properties. It has an auto-ignition temperature of 349°C. In aqueous solutions, it has a pH value in the range from 5.2 to 6.1. There is no effect of low and high temperature on the stability of the formulations, since after 7 days at 0°C and 2 weeks at 54°C neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature. Its technical characteristics are acceptable for an emulsifiable concentrate (EC) formulation type. The intended concentration of use is 0.2% to 0.9% v/v. The highest recommended concentration of 0.9% v/v is not fully covered, but results at 0.73% v/v are acceptable and can be extrapolated.

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.1. APPEARANCE						
Physical state and colour B.2.1/01	Visual assessment	BAS 555 01 F, batch R1811-111: 90g/L	Off white, hazy, slightly viscous liquid, free from foreign matter. The appearance of the product remains unchanged after storage (208 weeks at 20°C, 104 weeks at 28°C, 12 weeks at 37°C and 2 weeks at 54°C).	Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
B.2.2. EXPLOSIVE AND OXIDIZING PROPERTIES						
Explosive properties B.2.2/01	EEC A.14	BAS 555 01 F, batch R1811-111: 90g/L	CHIP assessment showed no evidence of explosive properties. Test EEC A.14 not required.	Acceptable The product has no explosive properties.	Y	[see MK-326-020 Baker I.P. 2001 a]
	OECD Guideline 113	BAS 555 01 F, batch FRE-000698: 90g/L	<u>Explosive properties:</u> Screening Test for Thermal Stability (Differential Scanning Calorimetry) Results: 1 st reaction: Onset temperature 135°C, peak temperature 163°C, energy release 30J/g 2 nd reaction: Onset temperature 208°C, peak temperature 314°C, energy release 10J/g 3 rd reaction: Onset temperature 360°C, peak temperature 418°C, energy release 330J/g Remarks: the DSC curve is enclosed. The test for Explosive Properties (A.14) has not been carried out because the exothermic decomposition energy (determined by DSC) is less than 500J/g (cf. UN RTDG. Manual of Tests and Criteria. Annex 6). In summary, evaluations of thermal sensitivity show that the formulation BAS 555 01 F does not exhibit any explosive properties.	Acceptable The product has no explosive properties.	Y	[see 2011/1142317 Loehr S. 2011 a]

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings			Comments (Acceptable / Non acceptable)	GLP	Reference
Oxidizing properties B.2.2/02	EEC A.17	BAS 555 01 F, batch R1811-111: 90g/L	CHIP assessment showed no evidence of oxidising properties. Test EEC A.17 not required.			Acceptable The product has no oxidising properties.	Y	[see MK-326-020 Baker I.P. 2001 a]
	EEC A.21	BAS 555 01 F, batch FRE-000698: 90g/L	The test substance is not considered an oxidising substance in the sense of the directive because the mean pressure rise time of the test mixture (8733ms) is longer than the mean pressure rise time of the reference mixture (3509ms).			Acceptable The product has no oxidising properties.	Y	[see 2011/1142317 Loehr S. 2011 a]
B.2.3. FLAMMABILITY AND AUTO-FLAMMABILITY								
Flash point of the liquids formulations B.2.3/01	ASTM D93B		> 80°C			Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
Flammability of solid formulations B.2.3/02			Not applicable for EC formulations.					
Self-heating of formulation B.2.3/03	EEC A.15	BAS 555 01 F, batch R1811-111: 90g/L	Auto-ignition temperature = 340°C.			Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
	EEC A.15	BAS 555 01 F, batch FRE-000698: 90g/L	A corrected* auto-ignition temperature of 349°C was detected. *Correction performed according EN 14522.			Acceptable	Y	[see 2011/1142317 Loehr S. 2011 a]
B.2.4. ACIDITY/ALKALINITY AND PH VALUE								
pH of the neat aqueous formulation B.2.4/01			Not applicable for EC formulations.					
pH of a 1 % dilution of the solid or non aqueous formulation B.2.4/02	MT 75.2	BAS 555 01 F, batch R1811-111: 90g/L	Temperature [°C]	Storage [weeks]	pH	Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
			-	Initial	5.6			
			20	52	5.8			
				104	6.1			
				156	5.3			
				208	5.2			
			28	52	5.7			

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings					Comments (Acceptable / Non acceptable)	GLP	Reference
				104	5.7					
			37	12	5.5					
			54	2	5.3					
			In conclusion, the pH shows no marked change on storage.							
Acidity / Alkalinity B.2.4/03	MT 191	BAS 555 01 F, batch R1811-111: 90g/L	Not applicable for herein determined pH values (4 ≤ pH ≤ 10).							
B.2.5. VISCOSITY AND SURFACE TENSION										
Viscosity of the liquid formulation B.2.5/01	CIPAC MT 22.1	BAS 555 01 F, batch R1811-111: 90g/L	Temperature [°C]	Storage [weeks]	Test temperature [°C]	Kinematic Viscosity [mm²/s]	Dynamic Viscosity* [mPA.s]	Acceptable The product has no aspiration toxicity classification.	Y	[see MK-326-020 Baker I.P. 2001 a]
			-	initial	20	63	65.9			
			20	208	25	54	56.5			
					40	28	29.3			
			54	2	20	60	62.8			
			* calculated form kinematic viscosity and density = 1.046g/cm³							
	In conclusion, the kinematic viscosity is >22.5mm²/s under all test conditions					Acceptable The product has no aspiration toxicity classification.	Y	[see 2014/1275283 Kroehl T. 2014]		
	CIPAC MT 192	BAS 555 01 F, batch FRE-001023: 90g/L	Dynamic Viscosity at 40°C		[mPA.s]					
			At D = 10s ⁻¹		35					
			At D = 20s ⁻¹		35					
			At D = 100s ⁻¹		35					
			At D = 400s ⁻¹		35					
			Kinematic Viscosity* at 40°C		[mPA.s]					
			At D = 100s ⁻¹		34					
* Kinematic Viscosity [mm²/s] = Dynamic Viscosity [mPA.s] / Density [g/cm³] Density at 40°C = 1.041g/cm³										
Flow behaviour : Newtonian										
Surface tension of the formulation B.2.5/02	EEC A.5	BAS 555 01 F, batch R1811-111: 90g/L	Temperature [°C]	Storage [weeks]	Test Temperature [°C]	Surface Tension [mN/m]		Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
						Neat	0.5% v/v dilution			
			-	Initial	20	n.d.	25.4			

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings					Comments (Acceptable / Non acceptable)	GLP	Reference
			20	208	25	24.0	29.5			
					40	30.0	34.0			
			n.d. : not determined							
			In conclusion, the surface tension is <33mN/m under all test conditions except when the product is diluted at the minimum use rate and tested at 40°C.							
B.2.6. RELATIVE DENSITY AND BULK DENSITY										
Relative density of the liquid formulation B.2.6/01	CIPAC MT 3.1 (equivalent to EEC A.3)	BAS 555 01 F, batch R1811-111: 90g/L	Specific gravity: 1.046					Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]
	EEC A.3	BAS 555 01 F, batch FRE-001023: 90g/L	Density at 40°C = 1.041g/cm³					Acceptable	Y	[see 2014/1275283 Kroehl T. 2014]
Bulk density (pour and tap) of powder or granules B.2.6/02			Not applicable for EC formulations.							
B.2.7. STORAGE STABILITY AND SHELF-LIFE: EFFECTS OF TEMPERATURE ON TECHNICAL CHARACTERISTICS OF THE PLANT PROTECTION PRODUCT										
Stability after accelerated storage (54°C during 14 days, 8 weeks at 40°C, 12 weeks at 35°C or 18 weeks at 30°C) B.2.7/01	procedure equivalent to CIPAC MT 46.3	BAS 555 01 F, batch R1811-111: 90g/L	Content of active ingredient:					Acceptable The product is stable after accelerated storage in HDPE.	Y	[see MK-326-020 Baker I.P. 2001 a]
			Temperature [°C]	Storage [weeks]	Metconazole content [g/L]					
			-	Initial	88.1 – 89.9					
			37	12	89.1 – 90.0					
			54	2	88.6 – 89.6					
			The studies has been performed in original containers (1L HDPE packs fitted with 50 mm induction-seal screw caps). The stability data given above show this formulation to have good stability after accelerated storage, with metconazole content showing negligible change over the storage period. The product showed no change in appearance from the initial sample after storage.							
Packs showed no leakage or penetration during storage. Neither the appearance of the product nor its properties are altered by the container material.										

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings			Comments (Acceptable / Non acceptable)	GLP	Reference	
Effect of low temperature on stability of liquid formulation B.2.7/02	CIPAC MT 39.1	BAS 555 01 F, batch R1811-111: 90g/L	After 7 days at 0°C the clear product had turned cloudy. When warmed to room temperature the clear solution returned.			Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]	
Shelf life following storage at ambient temperature B.2.7/03	procedure as recommended in CropLife International, 2009.Technical Monograph No 17, "Guidelines for Specifying the Shelf Life of Plant Protection Products.", paragraph 6.2	BAS 555 01 F, batch R1811-111: 90g/L	Content of active ingredient:			Acceptable The product is stable after shelf life storage at ambient temperature in HDPE.	Y	[see MK-326-020 Baker I.P. 2001 a]	
			Temperature [°C]	Storage [weeks]	Metconazole content [g/L]				
			-	Initial	88.1 – 89.9				
			20	52	91.3 – 92.7				
				104	88.6 – 89.6				
				156	88.2 – 88.5				
				208	89.5 – 90.0				
			28	52	90.2 – 91.0				
				104	88.7 – 89.9				
			Pack appearance and weight check:						
			Temperature [°C]	Storage [weeks]	Pack appearance				Weight change [%]
			-	Initial	No distortion, leakage or staining				-
			20	52	No leakage or staining, but panelling evident				+0.1
				104	No staining, but heavy panelling				+0.1
				156	No leakage or staining, but moderate panelling				+0.1
				208	No leakage or staining, but heavy panelling evident				+0.1
			28	52	No leakage or staining, but panelling evident				+0.1
104	No staining, but heavy panelling	+0.1							
37	12	No leakage or staining, but moderate panelling is present	<0.1						
54	2	No leakage or staining, but slight panelling is present	<0.1						
Packs showed no leakage or penetration during storage. Negligible weight changes indicate that panelling is due to head space absorption, which can be alleviated by									

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings	Comments (Acceptable / Non acceptable)	GLP	Reference							
			<p>nitrogen purging during filling. Neither the appearance of the product nor its properties are altered by the container material.</p> <p>The studies has been performed in original containers (1L HDPE packs fitted with 50 mm induction-seal screw caps). The stability data given above show this formulation to have good stability after long term storage, with metconazole content showing negligible change over the storage period. The product showed no change in physical/chemical properties from the initial sample after storage.</p> <p>(see relevant properties for results before and after storage)</p>										
B.2.8. TECHNICAL CHARACTERISTICS OF THE PLANT PROTECTION PRODUCT													
B.2.8.1. Wettability													
Wettability of solid formulation B.2.8.1/01			Not applicable for EC formulations.										
B.2.8.2. Persistence foaming													
Persistence of foaming of the diluted formulation B.2.8.2/01	CIPAC MT 47.1	BAS 555 01 F, batch R1811-111: 90g/L	Temperature [°C]		Storage [weeks]		Volume of foam [mL]		Acceptable	Y	[see MK-326-020 Baker I.P. 2001 a]		
							after 10 seconds after 1 minute						
			-		initial		38 0						
			20		52		45					9	
					104		14					8	
					156		17					0	
					208		35					<1	
			28		52		28					3	
					104		26					0	
			37		12		32					0	
54		2		34		0							
			In conclusion, the product does not produce persistent foam.										
	CIPAC MT 47.2	BAS 555 01 F, batch FRE-001023: 90g/L			Volume of Foam [mL]				Acceptable The highest recommended dilution (0.9% v/v) is	N	[see 2014/1184762 Kroehl T. 2014]		
					at 0.125 % at 0.73 %								
			after 10 sec		50		70						
			after 1 min		14		0						

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings				Comments (Acceptable / Non acceptable)	GLP	Reference
			after 3 min	10	0	In conclusion, low persistent foam is generated on dilution of the product.	not covered. However, since the results at 0.73% v/v are acceptable and far below the max. 60mL after 1 minute, the results can be extrapolated.		
			after 12 min	6	0				
B.2.8.3. Suspensibility									
Suspensibility of water dispersible formulation B.2.8.3/01			Not applicable for EC formulations.						
Spontaneity of dispersion of water dispersible formulation B.2.8.3/02			Not applicable for EC formulations.						
Dispersion stability of SE, OD or EG formulation B.2.8.3/03			Not applicable for EC formulations.						
B.2.8.4. Degree of dissolution and dilution stability									
Degree of dissolution of water soluble formulation B.2.8.4/01			Not applicable for EC formulations.						
Dilution stability of water soluble formulation B.2.8.4/02	CIPAC MT 41		Not applicable for EC formulations.				Acceptable Not required for EC formulations.	Y	[see MK-326-020 Baker I.P. 2001 a]
			Temperature [°C]	Storage [weeks]	Dilution appearance at 5% v/v				
			-	Initial	After 30 minutes	After 24 hours			
					Clear liquid with no separation	Clear liquid with no separation			

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings					Comments (Acceptable / Non acceptable)	GLP	Reference					
			20	52	Clear liquid with no separation	Clear liquid with no separation									
				104	Clear liquid with no separation	Clear liquid with no separation									
				156	Clear liquid with no separation	Clear liquid with no separation									
				208	Clear liquid with no separation	Clear liquid with no separation									
			28	52	Clear liquid with no separation	Clear liquid with no separation									
				104	Clear liquid with no separation	Clear liquid with no separation									
			In conclusion, the formulation is completely soluble in water at 5% v/v, and forms a stable dilution initially and after storage.												
			Please note: This study has erroneously been cited in the application, because of the formerly formulation type SL. For further information see M-CP Section 1, CP 1.5												
			B.2.8.5. Particle size distribution, dust content, attrition and mechanical stability												
			B.2.8.5.1. Particle size distribution												
Wet sieve test of water dispersible formulation B.2.8.5.1/01			Not applicable for EC formulations.												
Size distribution of particles of powder or suspension concentrate formulation B.2.8.5.1/02			Not applicable for EC formulations.												
Nominal size range of granule B.2.8.5.1/03			Not applicable for EC formulations.												
B.2.8.5.2. Dust content															
Dust content of granular formulation B.2.8.5.2/01			Not applicable for EC formulations.												

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings	Comments (Acceptable / Non acceptable)	GLP	Reference			
B.2.8.5.3. Attrition									
Attrition characteristics of granules and tablets B.2.8.5.3/01			Not applicable for EC formulations.						
B.2.8.5.4. Hardness and integrity									
Hardness of tablets B.2.8.5.4/01			Not applicable for EC formulations.						
Integrity of tablets B.2.8.5.4/02			Not applicable for EC formulations.						
B.2.8.6. Emulsifiability, re-emulsifiability, emulsion stability									
Emulsifiability, emulsion stability and re-emulsifiability of formulation B.2.8.6/01	CIPAC MT 36.3	BAS 555 01 F, batch 2030: 90 g/L	<u>Emulsion stability</u> 0.12 % in CIPAC water A:				Acceptable The highest recommended dilution (0.9% v/v) is not covered. However, since the results at 0.73% v/v are acceptable, the results can be extrapolated.	Y	[see 2008/1055121 Kroehl T. 2008 a]
				before storage	after low temp. storage	after accelerated storage			
			Initial emulsification (after 1 inversion)	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth			
			Emulsion stability on standing						
			Assessment after 30 min	x	x	x			
			Assessment after 2 h	x	x	x			
			Assessment after 24 h	x	x	x			
			Re-emulsification after standing for 24 h	yes, homogeneous emulsion	yes, homogeneous emulsion	yes, homogeneous emulsion			
			Assessment after addit. 30 min	x	x	x			
			x = 0 mL sediment, 0 mL cream, 0 mL free oil						
0.12 % in CIPAC water D:									
	before storage	after low temp. storage	after accelerated storage						
Initial emulsification (after 1 inversion)	yes, homogeneous emulsion;	yes, homogeneous emulsion;	yes, homogeneous emulsion;						

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings				Comments (Acceptable / Non acceptable)	GLP	Reference
				little froth	little froth	little froth			
			Emulsion stability on standing						
			Assessment after 30 min	x	x	x			
			Assessment after 2 h	x	x	x			
			Assessment after 24 h	x	x	x			
			Re-emulsification after standing for 24 h	yes, homogeneous emulsion	yes, homogeneous emulsion	yes, homogeneous emulsion			
			Assessment after addit. 30 min	x	x	x			
			x = 0 mL sediment, 0 mL cream, 0 mL free oil						
			0.73 % in CIPAC water A						
				before storage	after low temp. storage	after accelerated storage			
			Initial emulsification (after 1 inversion)	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth			
			Emulsion stability on standing						
			Assessment after 30 min	x	x	x			
			Assessment after 2 h	x	x	x			
			Assessment after 24 h	x	x	x			
			Re-emulsification after standing for 24 h	yes, homogeneous emulsion	yes, homogeneous emulsion	yes, homogeneous emulsion			
			Assessment after addit. 30 min	x	x	x			
			x = 0 mL sediment, 0 mL cream, 0 mL free oil						
			0.73 % in CIPAC water D						
				before storage	after low temp. storage	after accelerated storage			
			Initial emulsification (after 1 inversion)	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth	yes, homogeneous emulsion; little froth			
			Emulsion stability on standing						
			Assessment after 30 min	x	x	x			
			Assessment after 2 h	x	x	x			

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings				Comments (Acceptable / Non acceptable)	GLP	Reference
			Assessment after 24 h	x	x	x			
			Re-emulsification after standing for 24 h	yes, homogeneous emulsion	yes, homogeneous emulsion	yes, homogeneous emulsion			
			Assessment after addit. 30 min	x	x	x			
			x = 0 mL sediment, 0 mL cream, 0 mL free oil						
			In conclusion, the emulsion stability of the product was found to be good initially, after cold temperature storage for 7 days at 0°C and after accelerated storage for 14 days at 54°C.						
B.2.8.7. Flowability, pourability and dustability									
Flowability of granular formulation B.2.8.7/01			Not applicable for EC formulations.						
Pourability of suspensions B.2.8.7/02			Not applicable for EC formulations.						
Dustability of dustable powders after accelerated storage B.2.8.7/03			Not applicable for EC formulations.						
B.2.9. PHYSICAL AND CHEMICAL COMPATIBILITY WITH OTHER PRODUCTS INCLUDING PLANT PROTECTION PRODUCTS WITH WHICH ITS USE IS TO BE AUTHORISED									
Physical and chemical compatibility of tank mixtures B.2.9/01	BASF method RLA12646	BAS 555 01 F, batch R2066-079: 90 g/L	BAS 555 01 F was tested for physical compatibility with 10 formulations of the types SC, WG and EC. The results show that BAS 555 01 F, gave satisfactory physical compatibility with all of the mixing partners tested at the highest recommended dilution rates. All showed satisfactory physical compatibility in the static test. In the case of two-way mixes both orders of addition showed satisfactory compatibility. Mixing partners: Fastac 100 SC® (SC), Mageos® (WG), Karate Zeon® (SC), Fastac 100 EC ® (EC), Amistar® (SC), Comet Gold® (BAS 528 00 F (EC)), Starane® (EC), Konker R® (SC), Konker® (SC) and BAS 540 00 F (SC).				Acceptable The product is compatible with SC, WG and EC formulation types.	N	[see MK-390-024 Horsler C.W. 2002 a]

Test or Study & Data point	Guideline and method	Test material purity and specification	Findings	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.10. ADHERENCE AND DISTRIBUTION TO SEEDS						
Distribution and adhesion to seeds B.2.9.10/01			Not applicable			
B.2.11. OTHER STUDIES						
			Not applicable			

B.2.12. REFERENCES RELIED ON

Data Point	Author (s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Verteb rate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.2.1/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.2/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Loehr S.	2011 a	Evaluation of physical and chemical properties according to Directive 94/37/EC (Regulation (EC) No 440/2008) 2011/1142317 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.2/02	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Loehr S.	2011 a	Evaluation of physical and chemical properties according to Directive 94/37/EC (Regulation (EC) No 440/2008) 2011/1142317 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal

B.2.3/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.3/03	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Loehr S.	2011 a	Evaluation of physical and chemical properties according to Directive 94/37/EC (Regulation (EC) No 440/2008) 2011/1142317 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.4/02	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.5/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Kroehl T.	2014 a	Viscosity and density data for BAS 555 01 F 2014/1275283 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal

B.2.5/02	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.6/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Kroehl T.	2014 a	Viscosity and density data for BAS 555 01 F 2014/1275283 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.7/01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.7/02	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.7/03	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal

B.2.8.2/ 01	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
	Kroehl T.	2014 b	Data on persistent foaming for BAS 555 01 F 2014/1184762 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	Not applicable	BASF	No, submitted for purpose of renewal
B.2.8.4/ 02	Baker I.P.	2001 a	Metconazole 90 g/L SL - Chemical and physical stability of formula RLA 12307 (BAS 555 01 F) when stored in HDPE packs - 208 week final report MK-326-020 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.8.6/ 01	Kroehl T.	2008 a	Emulsion stability of BAS 555 01 F 2008/1055121 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for purpose of renewal
B.2.9/01	Horsler C.W.	2002 a	Metconazole 60 g/L SL (BAS 555 00 F) and Metconazole 90 g/L SL (BAS 555 01 F): Compatibility of tank mixes MK-390-024 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom no Unpublished	No	No	Not applicable	BASF	No, submitted for purpose of renewal