

European Commission



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

BAS 750F (Mefentrifluconazole)

Volume 3 – B.2 (PPP) – BAS 750 01 F

Rapporteur Member State : United Kingdom
Co-Rapporteur Member State : France & Austria

Version History

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B.2. PHYSICAL AND CHEMICAL PROPERTIES OF THE PLANT PROTECTION PRODUCT BAS 750 01 F

The physical and chemical properties of the plant protection product BAS 750 01 F (BAS 750 F 100 g/L EC used as name in studies) are detailed in Table 2-1.

Table 2-1 : Physical and chemical properties of the plant protection product BAS 750 01 F

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results		Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.1. APPEARANCE							
Physical state and colour B.2.1/01	Visual examination and organoleptic determination	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006			Acceptable No change in physical state and colour after accelerated storage	Y	[see 2014/1219235 Kroehl T. 2014 a]
			Initial	2 weeks at 54°C			
			Clear yellow liquid with faintly fishy odour	Clear yellow liquid with faintly fishy odour			
B.2.2. EXPLOSIVE AND OXIDIZING PROPERTIES							
Explosive properties B.2.2/01	EC A.14	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Mechanical sensitivity: Impact No reaction observed indicating no explosive properties		Acceptable Preliminary test had to be stopped due to evaporation of the test item therefore the main test was used. Test method EC A.14 is considered comparable to test methods described in Part I of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria for classification of explosive substances	Y	[see 2014/1133852 Dreisch S. 2014 a]
			Thermal sensitivity: Koenen-Test No reaction observed indicating no explosive properties				

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
				by CLP. BAS 750 01 F is not classified as an explosive substance according to CLP Regulation (EC) 1272/2008 Annex 1: 2.1.		
Oxidizing properties B.2.2/02	EC A.21	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	The mean pressure rise time (14.68 s) for the test item (1:1 mixture with cellulose) is greater than the mean pressure rise time (3.95 s) for the reference item (1:1 mixture of nitric acid 65% with cellulose). BAS 750 01 F has no oxidizing properties.	Acceptable EEC A.21 deemed sufficiently comparable to Test 21 as described in Section 34.4.1 of the UN Recommendations on the Transport of Dangerous Goods used for classification of oxidising liquids. BAS 750 01 F is not classified as an oxidising liquid according to CLP Regulation (EC) 1272/2008 Annex 1.	Y	[see 2014/1133852 Dreisch S. 2014 a]
B.2.3. FLAMMABILITY AND AUTO-FLAMMABILITY						
Flash point of the liquids formulations B.2.3/01	EC A.9	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Flash point: 128°C	Acceptable With a flash point > 60 °C, BAS 750 01 F is not classified as a flammable liquid according to CLP Regulation (EC) 1272/2008 Annex 1: Part 2.3.	Y	[see 2014/1133852 Dreisch S. 2014 a]
Flammability of solid	-	-	Not applicable as BAS 750 01 F is not a solid	Acceptable	-	-

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results				Comments (Acceptable / Non acceptable)	GLP	Reference
formulations B.2.3/02									
Self-heating of formulation B.2.3/03	EC A.15	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Auto-ignition temperature: 375 °C				Acceptable	Y	[see 2014/1133852 Dreisch S. 2014 a]
B.2.4. ACIDITY/ALKALINITY AND PH VALUE									
pH of the neat aqueous formulation B.2.4/01	-	-	Not applicable to EC formulations				Acceptable	-	-
pH of a 1 % dilution of the solid or non aqueous formulation B.2.4/02	CIPAC MT 75.3	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006		pH value at 23°C			Acceptable Non-significant change in pH on storage	Y	[see 2014/1219235 Kroehl T. 2014 a]
				Initial	7 days at 0°C	2 weeks at 54°C			
			pH of pure water	5.6	5.8	5.8			
			pH of CIPAC water D	6.1	6.3	6.3			
			pH at 1.0% in pure water	6.8	6.7	6.8			
			pH at 1.0% in CIPAC water D	6.6	6.6	6.5			
Acidity / Alkalinity B.2.4/03	-	-	Only required for preparations which are acidic (pH<4) or alkaline (pH>10).				Acceptable	-	-
B.2.5. VISCOSITY AND SURFACE TENSION									
Viscosity of the liquid formulation B.2.5/01	CIPAC MT 192	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-	The dynamic viscosity in mPa.s is:				Acceptable Although the formulation has > 10% hydrocarbon	Y	[see 2014/1219235 Kroehl T. 2014 a]
			Storage period	Initial	After 2 weeks at 54°C				

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference
		140113-0006	Temperature (°C)	20	40	20	40	content, the kinematic viscosity > 20.5 mm²/s at 40°C therefore the product is not classed as a Category 1 aspiration hazard under CLP.		
			at D= 10 s ⁻¹	82	34	84	38			
			at D= 100 s ⁻¹	82	34	84	38			
			at D= 400 s ⁻¹	82	34	84	38			
			Flow behaviour	Newtonian, no change in viscosity with change in shear rate at either 20 °C or 40 °C						
			Kinematic Viscosity* [mm²/s] at D = 100 s ⁻¹	83	35	-				
			* Kinematic viscosity [mm²/s] = Dynamic Viscosity [mPa·s] / Density (0.993 at 20°C, 0.978 at 40°C)							
Surface tension of the formulation B.2.5/02	OECD 115 EC A.5	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Test concentration [%]	Test temperature [°C]		Surface Tension [mN/m]		Acceptable The preparation is regarded as surface active.	Y	[see 2014/1219235 Kroehl T. 2014 a]
			0.1 in pure water at 20°C	20		31.0				
			1.5 in pure water at 20°C	20		29.1				
			100 at 25°C	25		28.9				
B.2.6. RELATIVE DENSITY AND BULK DENSITY										
Relative density of the liquid formulation B.2.6/01	EC A.3	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Mechanical oscillator method					Acceptable	Y	[see 2014/1219235 Kroehl T. 2014 a]
					Density					
					Initial	2 weeks at 54°C				
			At 20°C:	Density [g/cm³]	0.993	0.993				
	Relative density D ²⁰ ₄ (= Density / 0.99997 g/cm³)	0.993	0.993							

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference
			At 40°C	Density [g/cm³]	0.978	---				
Bulk density (pour and tap) of powder or granules B.2.6/02	-	-	Not applicable for an EC formulation					Acceptable	-	-
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	CIPAC MT 46.3 Analytical assay using HPLC method AFL0909/01	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Product stored in a 1L-PA/PE-coextruded bottle at 54°C for 14 days					Acceptable Change in active substance content upon accelerated storage = 0.6% No degradation of the active substance nor the packaging was observed after accelerated storage. HPLC method AFL0909/01 used to determine the level of the active substance has been acceptably validated in accordance with SANCO/3030/99 rev.4 (ref: DAR Volume 3CP PPP B-5.1.1).	Y	[see 2014/1219235 Kroehl T. 2014 a]
				Initial	2 weeks at 54 °C					
			Active ingredient content (g/L)	98.7	99.3					
			Pack appearance/corrosion	No influence of the product on the container, no corrosion, seal intact and no peculiarities inside container observed	No influence of the product on the container, no corrosion, seal intact and no peculiarities inside container observed					
			% weight change of pack	-	< 0.01					
			The results for other properties pre- and post-storage are reported in the relevant annex points elsewhere in this table.							
Effect of low temperature on stability of liquid	CIPAC MT 39.3	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-	After 7 days at 0°C, 3.5 mL turbidity at bottom but no phase separation was observed. After a further 24 hours standing, one inversion and 1 hour standing, 1.4 mL turbidity at bottom but no phase separation was observed. The results for properties pre- and post-low temperature storage are reported in annex points B.2.4 and B.2.8.6					Acceptable	Y	[see 2014/1219235 Kroehl T.

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results						Comments (Acceptable / Non acceptable)	GLP	Reference
formulation B.2.7/02		140113-0006									2014 a]
Shelf life following storage at ambient temperature B.2.7/03		BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	<u>104 week report</u> Samples stored at 23°C in incubators in PA/PE-coextruded packs, 1L and 250 mL (for physical and analytical measurements respectively).						Acceptable Change in active substance content upon 2 year ambient storage = 1.7% No degradation of the active substance, the formulation, nor the packaging was observed after 2 year ambient storage. HPLC method AFL0909/01 used to determine the level of the active substance has been acceptably validated in accordance with SANCO/3030/99 rev.4 (ref: DAR Volume 3CP PPP B-5.1.1). Persistence of foaming determined at concentrations covering the in-use range. Emulsifiability, emulsion stability and re-emulsifiability determined at concentrations	Y	[see 2016/1296130 Kroehl T. 2016 c]
			<u>Test</u>	<u>Guideline and method</u>							
			Content of a.i. and relevant impurities	Active: AFL0909/01 Relevant impurities: APL0705/01	Storage time (weeks)	BAS 750 F (Reg. No. 5834378) [g/L]					
							Initial	98.7			
					12	97.7					
					26	98.7					
					39	97.3					
					52	99.8					
					78	98.9					
			104	97.0							
n.d. = not determined * < LOQ (22 mg/kg)											
Density	EC A3	Storage time (weeks)	Density at 20 °C [g/cm³]	Relative Density D ²⁰ ₄ (= Density / 0.99997 g/cm³)							
					Initial	0.993	0.993				
		12	0.993	0.993							
		26	0.993	0.993							
		39	0.993	0.993							
52	0.993	0.993									

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results										Comments (Acceptable / Non acceptable)	GLP	Reference					
					78	0.993		0.993						covering the in-use range.						
					104	0.993		0.993												
			Condition Physical state Colour Odour		Storage time (weeks)	Condition	Physical state		Colour	Odour										
					Initial	Clear liquid	Liquid		Yellow	Faintly fishy										
					52	Clear liquid	Liquid		Yellow	Faintly fishy										
					104	Clear liquid	Liquid		Yellow	Faintly fishy										
			pH	CIPAC MT 75	Storage time (weeks)	Initial		52		104										
						Meas. Temp. [°C]	pH	Meas. Temp. [°C]	pH	Meas. Temp. [°C]	pH									
					pH of pure water	23	5.6	25	5.8	23	5.6									
					pH of CIPAC water D	23	6.1	25	6.4	23	6.3									
					pH at 1.0% in pure water	23	6.8	25	6.8	24	6.7									
					pH at 1.0 % in CIPAC water D	23	6.6	25	6.6	23	6.5									

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results										Comments (Acceptable / Non acceptable)	GLP	Reference
			Viscosity	CIPAC MT 192	Meas. temp (°C)	20									
						Dynamic viscosity [mPa's]				Flow behaviour					
					Storage time [weeks]	at D= 10 s ⁻¹	at D= 20 s ⁻¹	at D= 100 s ⁻¹	at D= 400 s ⁻¹						
					Initial	82	82*	82	82	Newtonian					
					52	82	81	81	80	Newtonian					
					104	75	77	79	79	Newtonian					
					*extrapolated										
					Meas. temp (°C)	40									
						Dynamic viscosity [mPa's]				Flow behaviour					
					Storage time [weeks]	at D= 10 s ⁻¹	at D= 20 s ⁻¹	at D= 100 s ⁻¹	at D= 400 s ⁻¹						
					Initial	34	34*	34	34	Newtonian					
					52	30	31	31	31	Newtonian					
					104	29	30	32	32	Newtonian					
			Persistence of foaming	MT 47.2	Test Conc. In CIPAC water D		0.1%	1.5%							
					Storage time [weeks]	time	Foam volume [ml]								
					Initial	10 sec	26	44							
						1 min	24	40							
						3 min	20	38							
						12 min	18	32							
					52	10 sec	26	44							
						1 min	24	40							

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results										Comments (Acceptable / Non acceptable)	GLP	Reference					
					104	3 min	20	38												
						12 min	18	32												
						10 sec	28	44												
							1 min	26	40											
							3 min	22	36											
							12 min	20	30											
			Emulsion stability	MT 36.3	Test conc.: 0.1%															
					Storage time [weeks]		Initial		52					104						
					CIPAC water		A	D	A	D				A				D		
					Time interval	Description of separation														
							Separation [mL]													
					30 seconds	Spontaneous emulsion	completely emulsified; little froth													
					30 minutes	Sediment	0	0	0	0				0				0		
						Top cream	0	0	0	0				0				0		
						Bottom cream	0	0	0	0				0				0		
						Top oil	0	0	0	0				0				0		
						Bottom oil														
					2 hours	Sediment	<1*	0	0	0				0				0		
						Top cream	0	0	0	0				0				0		
						Bottom cream	0	0	0	0				0				0		
						Top oil	0	0	0	0				0				0		
			Bottom oil																	
			24 hours	Sediment	0	0	0	0	0	0										
				Top cream	<1	0	0	0	0	0										
				Bottom cream	0	0	0	0	0	0										
				Top oil	0	0	0	0	0	0										
				Bottom oil																

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results												Comments (Acceptable / Non acceptable)	GLP	Reference			
						Bottom oil														
					Re-emulsification + 30 seconds	Completely re-dispersed	Yes, homog. emulsion													
					30 minutes after re-emulsification	Sediment	<1*	0	0	0	0	0	0							
						Top cream	0	0	0	0	0	0	0							
						Bottom cream	0	0	0	0	0	0	0							
						Top oil	0	0	0	0	0	0	0							
						Bottom oil														
					*traces															
					Test conc.: 1.5%															
					Storage time [weeks]		Initial		52		104									
					CIPAC water		A	D	A	D	A	D								
					Time interval	Description of separation														
							Separation [mL]													
					30 seconds	Spontaneous emulsion	completely emulsified; little froth													
					30 minutes	Sediment	0	0	0	0	0	0	0							
						Top cream	0	0	0	0	0	0	0							
						Bottom cream	0	0	0	0	0	0	0							
						Top oil	0	0	0	0	0	0	0							
						Bottom oil														
					2 hours	Sediment	<1*	0	0	0	0	0	0							
						Top cream	0	0	0	0	1	0								
						Bottom cream	0	0	0	0	0	1								
						Top oil	0	0	0	0	0	0								
						Bottom oil														
					24 hours	Sediment	0	0	0	0	0	0								
						Top cream	<1	0	1	0	1	0								
						Bottom	<1	0	0	0	0	0								

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results												Comments (Acceptable / Non acceptable)	GLP	Reference
							cream	0	<1	0	0	0	1				
							Top oil	0	0	0	0	0	0				
							Bottom oil										
						Re-emulsification + 30 seconds	Completely re-dispersed	Yes, homog. emulsion									
						30 minutes after re-emulsification	Sediment	<1*	0	0	0	0	0				
							Top cream	0	0	0	0	0	0				
							Bottom	0	0	0	0	0	0				
							cream	0	0	0	0	0	0				
							Top oil	0	0	0	0	0	0				
			Bottom oil														
			*traces														
			Packaging appearance (clarity)			Storage time [weeks]	Clarity										
						Initial	Clear										
						52	Clear										
						104	Clear										
			Weight change of unopened container			Storage time [weeks]	Weight initial [g]	Weight after storage [g]		Weight change [%]							
						52	1092.7	1093.0		0.03							
						104	1092.3	1093.0		0.07							
			Resistance of the packaging material to its contents			Storage time [weeks]	Package appearance			Corrosion							
							Initial	After storage									
						Initial	-	-		No influence of the product on the original container, no corrosion, seal intact and no							

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results							Comments (Acceptable / Non acceptable)	GLP	Reference
								peculiarities inside of the original container were observed.				
					52	No influence of the product on the original container was observed.	As initial	No corrosion, seal intact and no peculiarities inside of the original container were observed.				
					104	No influence of the product on the original container was observed.	Except a slight deformation, no influence of the product on the original container was observed.	No corrosion, seal intact and no peculiarities inside of the original container were observed.				
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 to EC formulations							Acceptable	-	-
B.2.8.2. Persistence foaming												
Persistence of foaming of the diluted	CIPAC MT 47.2	BAS 750 F 100 g/L EC (BAS 750 01 F)	Test Conc.					0.1%	1.5%	Acceptable Less than 60 mL foam after 1 minute	Y	[see 2014/1219235: Kroehl T.
			Storage Temp.	Storage time	time	Foam volume						

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results						Comments (Acceptable / Non acceptable)	GLP	Reference
formulation B.2.8.2/01		Batch No.: FD-140113-0006	[°C]	[weeks]		[ml]		Persistence of foaming determined at concentrations covering the in-use range.		2014 a]	
			-	Initial	10 sec	26	46				
					1 min	24	44				
					3 min	20	44				
					12 min	18	36				
			54	2	10 sec	20	42				
					1 min	18	42				
					3 min	16	40				
					12 min	16	36				
			B.2.8.3. Suspensibility								
Suspensibility of water dispersible formulation B.2.8.3/01	-	-	Not applicable to an EC formulation						Acceptable	-	-
Spontaneity of dispersion of water dispersible formulation B.2.8.3/02	-	-	Not applicable to an EC formulation						Acceptable	-	-
Dispersion stability of SE, OD or EG formulation B.2.8.3/03	-	-	Not applicable to an EC formulation						Acceptable	-	-
B.2.8.4. Degree of dissolution and dilution stability											
Degree of dissolution of water soluble	-	-	Not applicable to an EC formulation						Acceptable	-	-

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
formulation B.2.8.4/01						
Dilution stability of water soluble formulation B.2.8.4/02	-	-	Not applicable to an EC formulation	Acceptable	-	-
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 to an EC formulation	Acceptable	-	-
Size distribution of particles of powder or suspension concentrate formulation B.2.8.5.1/02	-	-	Not applicable to an EC formulation	Acceptable	-	-
Nominal size range of granule B.2.8.5.1/03	-	-	Not applicable to an EC formulation	Acceptable	-	-
B.2.8.5.2. Dust content						
Dust content of granular formulation B.2.8.5.2/01	-	-	Not applicable to an EC formulation	Acceptable	-	-
B.2.8.5.3. Attrition						
Attrition characteristics of granules and tablets	-	-	Not applicable to an EC formulation	Acceptable	-	-

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.8.5.3/01										
B.2.8.5.4. Hardness and integrity										
Hardness of tablets B.2.8.5.4/01	-	-	Not applicable to an EC formulation					Acceptable	-	-
Integrity of tablets B.2.8.5.4/02	-	-	Not applicable to an EC formulation					Acceptable	-	-
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 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	Concentration 0.1 % in CIPAC water A					Acceptable Less than 2 mL cream after 30 minutes, trace of oil. Re-emulsification complete after 30 minutes. Stability observed in both CIPAC A and D waters. Emulsifiability, emulsion stability and re-emulsifiability determined at concentrations covering the in-use range.		
					Initial	7 days at 0°C	2 weeks at 54°C			
			Time interval	Volume [mL]						
			30 seconds	Spontaneous emulsion	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth			
			30 minutes	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			2 hours	Sediment	<1 *	0	<1 *			
Top cream	0	0		0						
Bottom cream	0	0		0						
Top oil	0	0		0						
Bottom oil	0	0		0						
24 hours	Sediment	<1	0	0						
	Top cream	0	0**	0						
	Bottom cream	0	0	<1 *						
	Top oil	0	0	0						
	Bottom oil	0	0	0						
Re-emulsification +		yes, homog. emulsion	yes, homog. emulsion	yes, homog. emulsion						

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference
			30 seconds							
			30 minutes after re-emulsification	Sediment	<1*	0	0	0		
				Top cream	0	0	0	0		
				Bottom cream	0	0	0	0		
				Top oil	0	0	0	0		
				Bottom oil	0	0	0	0		
			* traces; ** schlieren at top							
			Concentration 1.5 % in CIPAC water A							
					Initial	7 days at 0°C	2 weeks at 54°C			
			Time interval	Volume [mL]						
			30 seconds	Spontaneous emulsion	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth			
			30 minutes	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			2 hours	Sediment	<1*	<1	<1*			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			24 hours	Sediment	0	0	0			
				Top cream	<1	1	1			
				Bottom cream	<1	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			Re-emulsification + 30 seconds		yes, homog. emulsion	yes, homog. emulsion	yes, homog. emulsion			
			30 minutes after re-emulsification	Sediment	<1*	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			* traces							
			Concentration 0.1 % in CIPAC water D							
					Initial	7 days at 0°C	2 weeks at 54°C			
			Time interval	Volume [mL]						
			30 seconds	Spontaneous emulsion	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth			
			30 minutes	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			2 hours	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			24 hours	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	<1*	<1*			
				Bottom oil	0	0	0			
			Re-emulsification + 30 seconds		yes, homog. emulsion	yes, homog. emulsion	yes, homog. emulsion			
			030 minutes after re-emulsification	Sediment	0	0	0			
				Top cream	0	0	0			
				Bottom cream	0	0	0			
				Top oil	0	0	0			
				Bottom oil	0	0	0			
			* traces							
			Concentration 1.5 % in CIPAC water D							

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results					Comments (Acceptable / Non acceptable)	GLP	Reference	
					Initial	7 days at 0°C	2 weeks at 54°C				
			Time interval	Volume [mL]							
			30 seconds	Spontaneous emulsion	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth	yes, homog. emulsion, little froth				
			30 minutes	Sediment	0	0	0				
				Top cream	0	0	0				
				Bottom cream	0	0	0				
				Top oil	0	0	0				
				Bottom oil	0	0	0				
			2 hours	Sediment	0	0	0				
				Top cream	0	0	0				
				Bottom cream	0	0	0				
				Top oil	0	0	0				
Bottom oil	0	0		0							
24 hours	Sediment	0	0	0							
	Top cream	0	0	0							
	Bottom cream	0	0	0							
	Top oil	<1	1	1							
	Bottom oil	0	0	0							
Re-emulsification + 30 seconds		yes, homog. emulsion	yes, homog. emulsion	yes, homog. emulsion							
30 minutes after re-emulsification	Sediment	0	0	0							
	Top cream	0	0	0							
	Bottom cream	0	0	0							
	Top oil	0	0	0							
	Bottom oil	0	0	0							

B.2.8.7. Flowability, pourability and dustability										
Flowability of granular formulation B.2.8.7/01	-	-	Not applicable to an EC formulation					Acceptable	-	-

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
Pourability of suspensions B.2.8.7/02	-	-	Not applicable to an EC formulation	Acceptable	-	-
Dustability of dustable powders after accelerated storage B.2.8.7/03	-	-	Not applicable to an EC formulation	Acceptable	-	-
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	ASTM method: E 1518-05	BAS 750 F 100 g/L EC (BAS 750 01 F) Batch No.: FD-140113-0006	<p>In total 16 mixtures of BAS 750 01 F with following plant protection products BAS 274 03 F Bravo® (SC), BAS 500 06 F Comet 200® (EC), BAS 700 09 F Intrex® (EC), BAS 703 07 F Priaxor® (EC), BAS 560 00 F Flexity® (EC), BAS 9314 1 F Proline® (EC), BAS 421 12 F Corbel® (EC), BAS 067 00 W Cerone® (SL), BAS 008 00 D Turbo® (GR), BAS 122 08 W Medax Top® (SC), BAS 139 00 W Medax Max® (WG), BAS 044 26 H Duplosan DP® (SL), BAS 812 00 H Biathlon Plus® (WG), BAS 9517 0 H Ariane C® (EC), BAS 9438 1 H Axial 50® (EC), BAS 9126 0 S Adigor® (EC), BAS 9377 0 H Atlantis® (WG), BAS 9101 0 S Actirob B® (EC), BAS 9005 0 I Pirimor-Granulat® (GR) and BAS 314 03 I Sumicidin Alpha® (EC) were tested. All mixtures were determined to be physically compatible and can be used in spray applications. In all mixtures no lumping and no flocculation occurred.</p> <p>The mixtures appeared to be homogeneous. Therefore BAS 750 01 F is apparently physically compatible with the tested products.</p> <p>No indication of any chemical reaction between the mixed products was observed. Therefore BAS 750 01 F is apparently chemically compatible with the tested products.</p>	<p>Acceptable</p> <p>It is noted that foaming occurs and the use of an anti-foam agent is recommended in tank mixing with BAS 044 26 H Duplosan DP® (SL) and also with BAS 9314 1 F Proline® (EC).</p> <p>It is also noted that the following tank mixes are only compatible with use of an agitator: BAS 274 03 F, BAS 500 06 F, BAS 703 07 F, BAS 560 00 F, BAS 008 00 D & BAS 122 08 W & BAS 421 12 F, BAS 139 00 W, BAS 812 00 H, BAS 9377 0 H</p>	Y	[see 2015/1240031 Wegkamp H.-G.. 2015 a]

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	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 to an EC formulation	Acceptable	-	-
B.2.11. OTHER STUDIES						
				Not applicable		

Summary

BAS 750 01 F is a clear yellow liquid with a faintly fishy odour. It is not classified as explosive, oxidising, highly flammable or as an aspiration hazard in accordance with the CLP Regulation. It has a flashpoint of 128 °C and an auto ignition temperature of 375 °C. It has a pH of around 6.5 in 1% aqueous solution. It is stable after low temperature (7 days at 0 °C), accelerated (2 weeks at 54 °C) and 2 year ambient storage. It has an acceptable level of persistent foam within the concentration range 0.1 – 1.5% which covers lowest-highest in-use concentration. It has an acceptable emulsifiability, emulsion stability and re-emulsifiability in both CIPAC A and D waters determined at concentrations covering the in-use range. It is physically and chemically compatible with 19 other plant protection products in tank mixes.

B.2.12. REFERENCES RELIED ON

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 2.1/1 KCP 2.4/1 KCP 2.5/1 KCP 2.6/1 KCP 2.7/3 KCP 2.8.2/1 KCP 2.8.6/1	Kroehl T.	2014 a	Physical and chemical properties of BAS 750 01 F including low temperature stability (7 days at 0°C) and accelerated storage stability (14 days at 54°C) 2014/1219235 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	Data for first Approval	BASF	N.A.
KCP 2.2/1 KCP 2.3/1	Dreisch S.	2014 a	Determination of physico-chemical properties according to Directive 94/37/EC (Regulation (EC) No. 440/2008) 2014/1133852 consilab Gesellschaft fuer Anlagensicherheit mbH, Frankfurt/Main, Germany Fed.Rep. yes	No	Yes	Data for first Approval	BASF	N.A.

			Unpublished					
KCP 2.9/1	Wegkamp H.-G.	2015 a	Physical and chemical compatibility in aqueous tank mixtures of BAS 750 01 F 2015/1240031 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	Not applicable	BASF	N.A
KCP 2.7/2	Kroehl T.	2016 c	Chemical and physical stability of formula BAS 750 01 F when stored for up to 3 years in PA/PE-coextruded packs - 104 week report BASF SE, Limburgerhof, Germany Fed.Rep. 2016/1296130 yes Unpublished	No	Yes	Data for first Approval	BASF	N.A