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Fenoxaprop-P-ethyl

Volume 3 – B.2 (PPP) – PUMA S 69 EW

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B.2. PHYSICAL AND CHEMICAL PROPERTIES OF THE PLANT PROTECTION PRODUCT PUMA S 69 EW

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 a light-beige opaque liquid with an aromatic or medium musty odour. It is not explosive, has no oxidising properties. It has flash point above 100 °C and an auto ignition temperature of 435 °C. In aqueous solution, it has a pH value around 7.5. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in COEX/PA, HDPE/PA and HDPE/EV. Its technical characteristics are acceptable for an EW formulation.

Where studies have been previously evaluated as acceptable for the first EU evaluation of AE F046360, this is indicated (writing in grey typeface) and no further evaluation was performed

The following batches have been used in the physico-chemical studies:

1. Specification 102000011507, batch 2007-003545; 6.46% fenoxaprop-P-ethyl, 7.07% mefenpyr-diethyl.
2. Specification 102000011507-02, batch EFKH002433; 6.37% fenoxaprop-P-ethyl, 7.08% mefenpyr-diethyl.
3. Specification AE F046360 24 EW14 A7, batch AE F046360 24 EW14 A717; 7.14% fenoxaprop-P-ethyl; 7.83% mefenpyr-diethyl.
4. Specification Hoe 046360 24 EW14 A2, batch Hoe 046360 24 EW14 A210; 6.77% fenoxaprop-P-ethyl; 6.70% mefenpyr-diethyl.

Information concerning the composition specifications can be found in Volume 4 of the DRAR.
The intended concentration of use ranges between 0.1% v/v (1.0 L/ha in 80 L) to 1.20% v/v (0.4 L/ha in 400 L).

Table B.2-1 Physical and chemical properties

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	AE F046360 24 EW14 A717	Physical state: liquid	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231977-01-1
	Visual	AE F046360 24 EW14 A717	Colour: light-beige	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231960-01-1
	Organoleptic	AE F046360 24 EW14 A717	Aromatic	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231964-01-1
	Visual	102000011507-02 batch: EFKH002433	Physical state: opaque liquid Colour: light-beige	**Acceptable**	N	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
B.2.2. EXPLOSIVE AND OXIDIZING PROPERTIES						
Explosive properties **B.2.2/01**	EU (=EEC) 92/69/EEC A.14	Hoe 046360 24 EW14 A707	Not explosive in the sense of EEC guidelines A14	EU agreed endpoint DAR 2005	Y	Wendt, W.; 1995; M-134266-01-1
Oxidizing properties **B.2.2/02**	Statement	AE F046360 24 EW14 A717	An evaluation of the oxidizing properties of the constituents of the formulation concluded no oxidizing properties.	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231981-01-1
	EU (=EEC) 92/69/EEC A.21	102000011507-02 batch: EFKH002433	No oxidizing properties in the sense of EEC Guideline A.21	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384279-01-1
B.2.3. FLAMMABILITY AND AUTO-FLAMMABILITY						
Flash point of the liquids formulations **B.2.3/01**	EU (=EEC) 92/69/EEC A.9	AE F046360 24 EW14 A717	The flash point was determined to be higher than 100 °C		Y	Bittner, P.; Rexer, K.; 2003; M-231962-02-1
Flammability of solid formulations			Not applicable as the preparation is a liquid			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.3/02						
Self-heating of formulation **B.2.3/03**	EU (=EEC) 92/69/EEC A.15	Hoe 046360 24 EW14 A707	Auto ignition temperature: 435 °C	EU agreed endpoint DAR 2005	Y	Woersdoerfer, U.; 1994; M-134484-01-2
B.2.4. ACIDITY/ALKALINITY AND PH VALUE						
pH of the neat aqueous formulation **B.2.4/01**	CIPAC MT 75.3 (electrometric determination)	102000011507-02 batch: EFKH002433	7.4 (undiluted formulation, at room temperature)	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
pH of a 1 % dilution of the solid or non aqueous formulation **B.2.4/02**	CIPAC MT 75.3 (electrometric determination)	AE F046360 24 EW14 A717	7.5 (1% dilution in deionised water, at room temperature)	EU agreed endpoint DAR 2005	Y	Bittner, P.; Rexer, K.; 2003; M-231968-02-1
	CIPAC MT 75.3 (electrometric determination)	102000011507-02 batch: EFKH002433	7.6 (1% dilution in deionised water, at room temperature)	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
Acidity / Alkalinity **B.2.4/03**			Acidity/alkalinity not required as the preparation is neither strongly acidic (pH < 4) nor strongly alkaline (pH > 10)			
B.2.5. VISCOSITY AND SURFACE TENSION						
Viscosity of the liquid formulation **B.2.5/01**	DIN 53019 OPPTS 830.7100	batch number AE F046360 24 EW14 A717	Kinematic viscosity Rotational viscometer: η = 344 mm^2/s at 40 °C undiluted at a shear rate of 20 s^{-1} η = 161 mm^2/s at 40 °C undiluted at a shear rate of 100 s^{-1}	EU agreed endpoint DAR 2005	Y	Bittner, P.; Rexer, K.; 2003; M-231975-01-1
	CIPAC MT 192 OECD 114	102000011507-02 batch: EFKH002433	Rotational viscometer: [ ] Dynamic viscosity (mPa×s) / Kinematic viscosity (mm^2/s)	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
			20 °C: 870 (at 20 s^{-1}) 496 (at 100 s^{-1}); 825 (at 20 s^{-1}) 470 (at 100 s^{-1}) 40 °C: 474 (at 20 s^{-1}) 217 (at 100 s^{-1}); 454 (at 20 s^{-1}) 208 (at 100 s^{-1})			
Surface tension of the formulation **B.2.5/02**	OECD 115 DIN 53914	AE F046360 24 EW14 A717	σ = 28.9 mN/m (0.3% in deionized water, at 20 °C) σ = 29.0 mN/m (0.7% in deionized water, at 20 °C) According to EEC guideline A.5 the preparation should be regarded as being a surface-active material.	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2004; M-230078-01-1
	OECD 115 DIN 53914	AE F046360 24 EW14 A717	Ring tensiometer: σ = 33.6 mN/m (undiluted, at 40 °C)	EU agreed endpoint DAR 2005	Y	Bittner, P.; Rexer, K.; 2003; M-231966-01-1
	EU (=EEC) 92/69/EEC A.5 OECD 115	102000011507 batch: 2007-003545	Ring tensiometer: σ = 30.8 mN/m (1 g/L in deionized water, at 20 °C)	**Acceptable**	Y	Rexer, K.; Bittner, P.; 2007; M-288064-01-1
	EU (=EEC) 92/69/EEC A.5 OECD 105	102000011507-02 batch: EFKH002433	Ring tensiometer: σ = 31.6 mN/m (undiluted, at 25 °C) σ = 30.8 mN/m (1 g/L in deionized water, at 20 °C)	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.6. RELATIVE DENSITY AND BULK DENSITY						
Relative density of the liquid formulation **B.2.6/01**	EU (=EEC) 92/69/EEC A.3 OECD 109 OPPTS 830.7300	AE F046360 24 EW14 A717	Density = 1.05 g/cm^3 at 20 °C	EU agreed endpoint DAR 2005	Y	Bittner, P.; Rexer, K.; 2003; M-231956-01-1
	EU (=EEC) 92/69/EEC A.3 OECD 109 OPPTS 830.7300	102000011507-02 batch: EFKH002433	Relative density D_4^{20} = 1.055 D_4^{40} = 1.043	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
Bulk density (pour and tap) of powder or granules **B.2.6/02**			Not required as the preparation is a liquid			
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	AE F046360 24 EW14 A717	Stable throughout the test period of 2 weeks at 54 °C with respect to active content, appearance, pH, emulsifiability, pourability. Packaging material: COEX/PA For detailed results see table B.2-3 in the Appendix.	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231973-01-1
	CIPAC MT 46.3	102000011507-02 batch: EFKH002433	Stable throughout the test period of 2 weeks at 54 °C with respect to active content, appearance, pH, persistence of foam, emulsifiability, pourability. Packaging material: HDPE/PA For detailed results see table B.2-4.	**Acceptable**	N	Rexer, K.; Schumacher, R.; 2010; M-384287-01-1
	CIPAC MT 46.3	102000011507-02 batch: EFKH002433	Stable throughout the test period of 2 weeks at 54 °C with respect to active content, appearance, pH, persistence of foam,	**Acceptable**	N	Rexer, K.; Schumacher, R.; 2010; M-384294-01-1

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
			emulsifiability, pourability. Packaging material: HDPE/EV For detailed results see table B.2-5.			
Effect of low temperature on stability of liquid formulation **B.2.7/02**	CIPAC MT 39.1	AE F046360 24 EW14 A717	In Standard Water A and Standard Water D: No separated material after 7 days at 0 °C.	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231972-01-1
	CIPAC MT 39.1	102000011507-02 batch: EFKH002433	In CIPAC Standard Water A and CIPAC D Standard Water D: Light beige opaque liquid with 0.08 mL reversible sediment after 7 days at 0 °C.	**Acceptable**	N	Rexer, K.; Schumacher, R.; 2010; M-384294-01-1
Shelf life following storage at ambient temperature **B.2.7/03**	CIPAC MT 46.3	Hoe 046360 24 EW14 A210	Stable throughout the test period of 2 years at ambient temperature with respect to active content, appearance, pH, persistence of foam, emulsifiability, pourability. Packaging material: COEX/PA For detailed results see table B.2-2.	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 1995; M-133853-02-1
	CIPAC MT 46.3	AE F046360 24 EW14 A717	Stable throughout the test period of 2 years at ambient temperature with respect to active content, appearance, pH, persistence of foam, emulsifiability, pourability. Packaging material: COEX/PA For detailed results see table B.2-3.	EU agreed endpoint DAR 2005	N	Rexer, K.; 2005; M-254160-03-1
	GIFAP Monograph No. 17	102000011507-02 batch: EFKH002433	Stable throughout the test period of 2 years at ambient temperature with respect to active content, appearance, pH, persistence of foam, emulsifiability, pourability. Packaging material: HDPE/PA For detailed results see table B.2-4.	**Acceptable**	N	Rexer, K.; 2012; M-433973-01-1
	GIFAP Monograph No.	102000011507-02	Stable throughout the test period of 2 years at ambient temperature with respect to active	**Acceptable**	N	Rexer, K.; 2012; M-433977-01-1

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
	17	batch: EFKH002433	content, appearance, pH, persistence of foam, emulsifiability, pourability. Packaging material: HDPE/PA For detailed results see table B.2-5.			
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 relevant for liquid formulations			
B.2.8.2. Persistence foaming						
Persistence of foaming of the diluted formulation **B.2.8.2/01**	CIPAC MT 47.2	AE F046360 24 EW14 A717	0.8 L in 400 L (0.2%) Standard Water D: after 1 min 16 mL 1.2 L in 180 L (0.7%) Standard Water D: after 1 min 25 mL	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231970-01-1
	CIPAC MT 47.2	102000011507-02 batch: EFKH002433	1.0 L/ha in 80 L (0.1%) in CIPAC D water: after 1 min 36 mL 0.4 L/ha in 400 L (1.2%) in CIPAC D water: after 1 min 13mL	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
B.2.8.3. Suspensibility						
Suspensibility of water dispersible formulation **B.2.8.3/01**			Not applicable as the preparation is a emulsifiable concentrate			
Spontaneity of dispersion of water dispersible formulation **B.2.8.3/02**			Not applicable as the preparation is a emulsifiable concentrate			
Dispersion stability of SE, OD or EG formulation			Not applicable as the preparation is a			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.8.3/03			emulsifiable concentrate			
B.2.8.4. Degree of dissolution and dilution stability						
Degree of dissolution of water soluble formulation **B.2.8.4/01**			Not required as the preparation is not water soluble.			
Dilution stability of water soluble formulation **B.2.8.4/02**			Not required as the preparation is not water soluble.			
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 as the preparation is a liquid.			
Size distribution of particles of powder or suspension concentrate formulation **B.2.8.5.1/02**			Not applicable as the preparation is a liquid.			
Nominal size range of granule **B.2.8.5.1/03**			Not applicable as the preparation is a liquid.			
B.2.8.5.2. Dust content						
Dust content of granular formulation **B.2.8.5.2/01**			Not applicable as the preparation is a liquid.			
B.2.8.5.3. Attrition						
Attrition characteristics of granules and tablets **B.2.8.5.3/01**			Not applicable as the preparation is a liquid.			
B.2.8.5.4. Hardness and integrity						
Hardness of tablets **B.2.8.5.4/01**			Not applicable as the preparation is a liquid.			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
Integrity of tablets **B.2.8.5.4/02**			Not applicable as the preparation is a liquid.			
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	AE F046360 24 EW14 A717	**0.3 g and 0.7 g in 100 mL Standard A Water:** Initial emulsification completely emulsified mixture after 30 min None after 2h None after 24 h None re-emulsification after 24 h: Not feasible after 24.5 h None **0.3 g and 0.7 in 100 mL Standard D Water:** Initial emulsification completely emulsified mixture after 30 min None after 2h None after 24 h None re-emulsification after 24 h: Not feasible after 24.5 h None	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2004; M-230080-01-1
	CIPAC MT 36.3	102000011507-02 batch: EFKH002433	**1.0 L/ha in 80 L CIPAC A Standard Water(0.1%):** Initial emulsification completely emulsified mixture after 30 min 0.5 mL sediment, no top-cream, no oil after 2 h 0.5 mL sediment, no top-cream, no oil after 24 h 0.5 mL sediment, no top-cream, no oil re-emulsification after 24 h: completely re-emulsifiable after 24.5 h 0.5 mL sediment, no top-cream, no oil **1.0 L/ha in 80 L CIPAC D Standard Water:** Initial emulsification completely emulsified mixture after 30 min 0.5 mL sediment, no top-cream, no oil	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
			after 2 h None after 24 h 0.5 mL sediment, no top-cream, no oil re-emulsification after 24 h: completely re-emulsifiable after 24.5 h 0.5 mL sediment, no top-cream, no oil **0.4 L/ha in 400 L CIPAC A and CIPAC D Standard Water (1.2%):** Initial emulsification completely emulsified mixture after 30 min 0.5 mL sediment, no top-cream, no oil after 2 h 0.5 mL sediment, no top-cream, no oil after 24 h 0.5 mL sediment, no top-cream, no oil re-emulsification after 24 h: completely re-emulsifiable after 24.5 h 0.5 mL sediment, no top-cream, no oil			
B.2.8.7. Flowability, pourability and dustability						
Flowability of granular formulation **B.2.8.7/01**			Not required as the preparation is not a granule.			
Pourability of suspensions **B.2.8.7/02**	CIPAC MT 148	AE F046360 24 EW14 A717	Residue: 3.34% Rinsed residue: 0.17%	EU agreed endpoint DAR 2005	N	Haase, D.; Rexer, K.; 2003; M-231979-01-1
	CIPAC MT 148	102000011507-02 batch: EFKH002433	Residue: 4.38% Rinsed residue: 0.18%	**Acceptable**	Y	Rexer, K.; Schumacher, R.; 2010; M-384276-01-1
Dustability of dustable powders after accelerated storage **B.2.8.7/03**			Not applicable as the preparation is a liquid.			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
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**	CIPAC MT 36 and assessment of sedimentation	HOE 046360 24 EW14 A7	The physical and chemical compatibility of FPP + MPR EW 144 has been studied with the following tank mixtures: - Diflufenican + isoproturon SC 62.5+500 g/L - Isoproturon SC 500 g/L - Diclofop-methyl EC 36% w/w - Deltamethrine EC 25 g/L - Amidosulfuron WG 75% w/w - Metsulfuron-methyl+thifensulfuron WG 6.8+68.2% w/w using a standard emulsifiability testing and an assessment of sedimentation. Sedimentation showed none to 1 mL sediment in all dilution system studied. Evaluation of reemulsifiability proofed to be from no sediment to completely reemulsifiable after 15 inversions.	EU agreed endpoint DAR 2005		
B.2.10. ADHERENCE AND DISTRIBUTION TO SEEDS						
Distribution and adhesion to seeds **B.2.9.10/01**			Not required as the preparation is not being used for seed treatment purposes			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
B.2.11. OTHER STUDIES						
Corrosion characteristics by means of accelerated storage test in various types of containers	None given	Hoe 046360 24 EW14 A2	Not corrosive to polyamide innerlined polyethylene containers, polyethylene terephthalate containers, glass bottles and steel containers with annealing inside lacquering (short time storage only) used as packing material.	**Acceptable**	N	Haase, D.; Rexer, K.; 1992; M-136353-01-1

Table B.2-2 Results referring to the point B.2.7/03: Storage stability after 2 years at ambient temperature (COEX/PA)

study-point	initial	2 years ambient temperature
a.s. content (*R*) and (*S*)	6.77%	7.20%
safener. content Mefenpyr-diethyl	6.70%	7.00%
packaging stability **COEX/PA**	Not applicable.	No adverse interaction between the packaging and the preparation was observed.
appearance colour, physical state (visual)	Light beige liquid	Light beige liquid
acidity / alkalinity according to CIPAC MT 191 (only if pH-value is less than 4 or greater than 10)	Not required	Not required
pH-value according to CIPAC MT 75.3 1% in de-ionized water 10% in de-ionized water	 7.7 7.8	 7.2 7.4
emulsifiability, method: Not provided Water of hardness 20 mg/kg (ppm)		
initial emulsification	completely emulsified non-opalescent liquid	completely emulsified non-opalescent liquid
after 30 min	none	none
after 2 h	none	none
after 24 h	traces of cream, no oil	traces of cream, no oil
re-emulsification after 24 h	re-emulsifiable	re-emulsifiable
after 24.5 h	none	none
emulsifiability, method: Not provided Water of hardness 500 mg/kg (ppm)		
initial emulsification	completely emulsified non-opalescent liquid	completely emulsified non-opalescent liquid
after 30 min	none	none
after 2 h	none	none
after 24 h	traces of cream, no oil	traces of cream, no oil
re-emulsification after 24 h	re-emulsifiable	re-emulsifiable
after 24.5 h	none	none
pourability, method: CIPAC MT 148	residue: 4.35% rinsed residue: 0.21%	residue: 4.10% rinsed residue: 0.18%

Table B.2-3 Results referring to the point B.2.7/01 and B.2.7/03: Storage stability after 14 days at 54 °C, and 2 years at ambient temperature (COEX/PA)

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
a.s. content (*R*) and (*S*) sum of isomers (*R*) isomer	7.30% w/w 7.14% w/w	7.50% w/w	7.31% w/w 7.15% w/w
safener. content Mefenpyr-diethyl	7.83% w/w	7.67% w/w	7.70% w/w
packaging stability **COEX/PA**	no negative effects observed	no negative effects observed	no negative effects observed
weight change	not necessary	< 0.2% no significant change	< 0.2% no significant change
deformation of packaging	not necessary	The bottle showed no significant changes in weight, shape and on the inner surface, while the colour was slightly darker compared with a blank container.	The bottle showed no significant changes in weight, shape, colour and inner surface.
leakage	no leakage	no leakage	no leakage
packaging/preparation interaction	\	no seepage	\
appearance colour, physical state (visual)	Light beige liquid without any visible separation.	Light beige liquid with approximately 3% reversible separation on the bottom.	Light beige liquid without any visible separation.
acidity / alkalinity according to CIPAC MT 191 (only if pH-value is less than 4 or greater than 10)	not necessary	not necessary	not necessary
pH-value according to CIPAC MT 75.3 (1% in de-ionized water)	7.5	7.2	7.1
persistent foaming according to CIPAC MT 47.2 0.21% of the preparation in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	17 mL 16 mL 3 mL 12 mL	not necessary	11 mL 11 mL 11 mL 11 mL
persistent foaming according to CIPAC MT 47.2 0.70% of the preparation in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	26 mL 25 mL 24 mL 24 mL	not necessary	23 mL 21 mL 13 mL 13 mL

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
emulsifiability, method: CIPAC MT 36.1.1 5% in CIPAC A water			
initial emulsification	completely emulsified mixture		completely emulsified mixture
after 30 min	none		none
after 2 h	none		0.1 ml sediment, no top-cream, no oil
after 24 h	none		none
re-emulsification after 24 h	completely re-emulsifiable		completely re-emulsifiable
after 24.5 h	none		none
emulsifiability, method: CIPAC MT 36.1.1 5% in CIPAC D water			
initial emulsification	completely emulsified mixture		completely emulsified mixture
after 30 min	none		none
after 2 h	none		0.1 ml sediment, no top-cream, no oil
after 24 h	none		none
re-emulsification after 24 h	completely re-emulsifiable		completely re-emulsifiable
after 24.5 h	none		none
emulsifiability, method: CIPAC MT 36.1.1 5% in Standard Water A (20 mg/kg hardness), at+30 °C			
initial emulsification	completely emulsified mixture	completely emulsified mixture	
after 30 min	none	none	
after 2 h	none	none	
after 24 h	none	none	
re-emulsification after 24 h	not feasible	not feasible	
after 24.5 h	none	none	
emulsifiability, method: CIPAC MT 36.1.1 5% in Standard Water D (342 mg/kg hardness, at +30 °C			
initial emulsification	completely emulsified mixture	completely emulsified mixture	
after 30 min	none	none	
after 2 h	none	none	
after 24 h	none	none	
re-emulsification after 24 h	not feasible	not feasible	
after 24.5 h	none	none	
pourability, method: CIPAC MT 148	residue: 3.34% rinsed residue: 0.17%	residue: 3.32% rinsed residue: 0.21%	residue: 2.90% rinsed residue: 0.23%

Table B.2-4 Results referring to the point B.2.7/01 and B.2.7/03: Storage stability after 14 days at 54 °C and 2 years at ambient temperature (HDPE/PA)

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
a.s. content	6.45% w/w	6.45% w/w	6.45% w/w
safener. content Mefenpyr-diethyl	7.11% w/w	7.10% w/w	7.07% w/w
packaging stability **HDPE/PA**	Not applicable.	No adverse interaction between the packaging and the preparation was observed.	No adverse interaction between the packaging and the preparation was observed.
weight change	Not applicable	Non-significant.	Non-significant.
deformation of packaging	Not applicable	The bottle showed no significant changes in weight, shape (no panelling, no ballooning), colour and inner surface.	The bottle showed no significant changes in weight, shape (no panelling, no ballooning), colour and inner surface.
leakage	Not applicable	No leaking	No leaking
effect on closure	Not applicable	Leak proof	Leak proof
packaging/preparation interaction	Not applicable	No seepage through the container wall.	No seepage through the container wall.
appearance colour, physical state (visual)	Light beige liquid without any visible separation.	Light beige liquid without any visible separation.	Light beige liquid with approximately 3% reversible separation on the bottom.
acidity / alkalinity according to CIPAC MT 191 (only if pH-value is less than 4 or greater than 10)	Not required	Not required	Not required
pH-value according to CIPAC MT 75.3 Undiluted 1% in de-ionized water	 7.4 7.6	 7.2 7.1	 7.0 7.2
persistent foaming according to CIPAC MT 47.2 0.4 L/ha in 400 L in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	 13 mL 13 mL 12 mL 10 mL	 17 mL 16 mL 15 mL 11 mL	 22 mL 19 mL 15 mL 14 mL
persistent foaming according to CIPAC MT 47.2 1.0 L/ha in 80 L in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	 39 mL 36 mL 33 mL 19 mL	 42 mL 40 mL 35 mL 22 mL	 52 mL 40 mL 30 mL 17 mL

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
emulsifiability, method: CIPAC MT 36.3 0.4 L/ha in 400 L CIPAC Standard Water A			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 0.4 L/ha in 400 L CIPAC Standard Water D			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 1.0 L/ha in 80 L CIPAC A Standard Water A			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	1.0 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 1.0 L/ha in 80 L CIPAC A Standard Water D			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	1.0 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
pourability, method: CIPAC MT 148	residue: 4.38% rinsed residue: 0.18%	residue: 3.93% rinsed residue: 0.16%	residue: 3.51% rinsed residue: 0.23%

Table B.2-5 Results referring to the point B.2.7/01 and B.2.7/03: Storage stability after 2 weeks at 54 °C and after 2 years at ambient temperature (HDPE/EV)

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
a.s. content 7.30%-w/w (*R*) and (*S*)	6.45% w/w	6.42% w/w	6.43% w/w
safener. content Mefenpyr-diethyl	7.11%	7.05% w/w	7.05% w/w
packaging stability **HDPE/EV**	Not applicable.	No adverse interaction between the packaging and the preparation was observed.	No adverse interaction between the packaging and the preparation was observed.
weight change	Not applicable	Non-significant.	Non-significant.
deformation of packaging	Not applicable	No panelling. No ballooning	The bottle showed no significant changes in weight, shape (no panelling, no ballooning), colour and inner surface.
leakage	Not applicable	No leaking	No leaking
effect on closure	Not applicable	Leak proof	Leak proof
packaging/preparation interaction	Not applicable	No seepage through the container wall.	No seepage through the container wall.
appearance colour, physical state (visual)	Light beige liquid without any visible separation.	Light beige liquid without any visible separation.	Light beige liquid with 8% reversible clear separation on the bottom.
acidity / alkalinity according to CIPAC MT 191 (only if pH-value is less than 4 or greater than 10)	Not required	Not required	Not required
pH-value according to CIPAC MT 75.3 Undiluted 1% in de-ionized water	 7.4 7.6	 7.2 7.1	 7.0 7.2
persistent foaming according to CIPAC MT 47.2 0.4 L/ha in 400 L in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	 13 mL 13 mL 12 mL 10 mL	 17 mL 16 mL 15 mL 11 mL	 22 mL 19 mL 15 mL 14 mL
persistent foaming according to CIPAC MT 47.2 1.0 L/ha in 80 L in CIPAC D water after 10 sec after 1 min after 3 min after 12 min	 39 mL 36 mL 33 mL 19 mL	 42 mL 40 mL 35 mL 22 mL	 52 mL 40 mL 30 mL 17 mL
emulsifiability, method: CIPAC MT 36.3 0.4 L/ha in 400 L CIPAC Standard Water A			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none

study-point	initial	2 weeks at 54 °C	2 years ambient temperature
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 0.4 L/ha in 400 L CIPAC Standard Water D			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 1.0 L/ha in 80 L CIPAC A Standard Water A			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
emulsifiability, method: CIPAC MT 36.3 1.0 L/ha in 80 L CIPAC Standard Water D			
initial emulsification	completely emulsified mixture	completely emulsified mixture	completely emulsified mixture
after 30 min	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 2 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
after 24 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
re-emulsification after 24 h	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture	completely re-emulsifiable completely emulsified mixture
after 24.5 h	0.5 mL sediment, no top-cream, no oil	0.5 mL sediment, no top-cream, no oil	none
pourability, method: CIPAC MT 148	residue: 4.38% rinsed residue: 0.18%	residue: 3.93% rinsed residue: 0.16%	residue: 3.51% rinsed residue: 0.23%

B.2.12. REFERENCES RELIED ON

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
0,	Haase, D.; Rexer, K.	2003	Determination of the physical state Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032737, Edition Number: M-231977-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.1 /02	Haase, D.; Rexer, K.	2003	Determination of the colour Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032728, Edition Number: M-231960-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.1 /03	Haase, D.; Rexer, K.	2003	Determination of the odour Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032730, Edition Number: M-231964-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.1 /04	Wolf, R.; Le Gren, I.	2004	Fenoxaprop-P-ethyl (AE F046369) Additional information and clarification to section 1 (Annex II and III), physical / chemical properties Statement Bayer CropScience, Report No.: C044472, Edition Number: M-236174-01-1 Date: 2004-10-14 GLP/GEP: n.a., unpublished **...also filed: KCP 2.2 /04**	N	N		Bayer CropScience
KCP 2.1 /05	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.4 /02** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.6 /05** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience
KCP 2.2 /01	Wendt, W.	1995	Explosive properties (in accordance with EEC-Guideline A.14) of Fenoxaprop-P-ethyl oil in water emulsion 69 g/L Code: Hoe 046360 24 EW14 A707 Cassella AG; Bayer CropScience, Report No.: A53602, Edition Number: M-134266-01-1 Date: 1995-01-12 GLP/GEP: yes, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.2 /02	Haase, D.; Rexer, K.	2003	Determination of the oxidizing properties Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032739, Edition Number: M-231981-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.2 /03	Wolf, R.	2004	Fenoxaprop-p-ethyl, AE F046360 Statement Bayer CropScience, Report No.: C045431, Edition Number: M-237083-01-1 Date: 2004-11-18 GLP/GEP: n.a., unpublished **...also filed: KCP 2.3 /03**	N	N		Bayer CropScience
KCP 2.2 /04	Wolf, R.; Le Gren, I.	2004	Fenoxaprop-P-ethyl (AE F046369) Additional information and clarification to section 1 (Annex II and III), physical / chemical properties Statement Bayer CropScience, Report No.: C044472, Edition Number: M-236174-01-1 Date: 2004-10-14 GLP/GEP: n.a., unpublished **...also filed: KCP 2.1 /04**	N	N		Bayer CropScience
KCP 2.2 /05	Rexer, K.; Schumacher, R.	2010	Oxidizing properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(RS00)G01, Edition Number: M-384279-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.3 /01	Bittner, P.; Rexer, K.	2003	Determination of the flash point closed Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/L Code: AE F032640 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032729, Edition Number: M-231962-02-1 Date: 2003-05-15 **...Amended: 2003-05-19** GLP/GEP: yes, unpublished	N	N		Bayer CropScience
KCP 2.3 /02	Woersdoerfer, U.	1994	Auto-flammability of liquids and gases (determination of relative self-ignition temperature) Hoe 046360 + Hoe 107892 EW 69 + 75 g/L (C0134M002) Code: Hoe 046360 24 EW14 A707 Hoechst AG, Frankfurt am Main, Germany Bayer CropScience, Report No.: A53939, Edition Number: M-134484-01-2 Date: 1994-10-31 GLP/GEP: yes, unpublished	N	N		Bayer CropScience
KCP 2.3 /03	Wolf, R.	2004	Fenoxaprop-p-ethyl, AE F046360 Statement Bayer CropScience, Report No.: C045431, Edition Number: M-237083-01-1 Date: 2004-11-18 GLP/GEP: n.a., unpublished **...also filed: KCP 2.2 /03**	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.4 /01	Bittner, P.; Rexer, K.	2003	Determination of the pH-value Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/L Code: AE F032640 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C033053, Edition Number: M-231968-02-1 Date: 2003-05-15 **...Amended: 2003-05-19** GLP/GEP: yes, unpublished	N	N		Bayer CropScience
KCP 2.4 /02	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.6 /05** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience
KCP 2.5 /01	Bittner, P.; Rexer, K.	2003	Determination of the viscosity Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032736, Edition Number: M-231975-01-1 Date: 2003-05-15 GLP/GEP: yes, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.5 /02	Haase, D.; Rexer, K.	2004	Determination of the surface tension Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/l Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C041116, Edition Number: M-230078-01-1 Date: 2004-04-14 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.5 /03	Bittner, P.; Rexer, K.	2003	Determination of the surface tension Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/L Code: AE F032640 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032731, Edition Number: M-231966-01-1 Date: 2003-05-15 GLP/GEP: yes, unpublished	N	N		Bayer CropScience
KCP 2.5 /04	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.4 /02** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.6 /05** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.5 /05	Rexer, K.; Bittner, P.	2007	Surface tension of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 69 + 75 g/L Specification number 102000011507 Bayer CropScience, Report No.: FOR0882(PC)02, Edition Number: M-288064-01-1 Date: 2007-05-11 GLP/GEP: yes, unpublished	N	Y	Data to support representative formulation	Bayer CropScience
KCP 2.6 /01	Bittner, P.; Rexer, K.	2003	Determination of the density Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/L Code: AE F032640 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032726, Edition Number: M-231956-01-1 Date: 2003-05-15 GLP/GEP: yes, unpublished	N	N		Bayer CropScience
KCP 2.6 /02	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.4 /02** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.6 /05** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.7 /01	Haase, D.; Rexer, K.	2003	Determination of the storage stability (Accelerated storage test at 14 days at 54 degrees C) Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032735, Edition Number: M-231973-01-1 Date: 2003-05-13 GLP/GEP: no, unpublished **...also filed: KCP 2.8.6 /02** **...also filed: KCP 2.8.7 /02**	N	N		Bayer CropScience
KCP 2.7 /02	Haase, D.; Rexer, K.	2003	Determination of the low temperature stability Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032734, Edition Number: M-231972-01-1 Date: 2003-05-09 GLP/GEP: no, unpublished **...also filed: KCP 2.8.6 /03**	N	N		Bayer CropScience
KCP 2.7 /03	Haase, D.; Rexer, K.	1994	Storage stability of Fenoxaprop-P-ethyl oil in water emulsion 69 g/L Code: Hoe 046360 24 EW14 A200 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: A53094, Edition Number: M-133853-02-1 Date: 1994-10-07 **...Amended: 1995-10-27** GLP/GEP: no, unpublished **...also filed: KCP 2.8.6 /04** **...also filed: KCP 2.8.7 /03**	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.7 /04	Rexer, K.	2005	2. Amendment to storage stability of fenoxaprop-P-ethyl + mefenpyr-diethyl - oil in water emulsion 69 + 75 g/litre - (Two years shelf life at room temperature) - Identification code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: M-254160-03-1, Report includes Trial Nos.: FOR0492(31S)04A2 Edition Number: M-254160-03-1 Date: 2005-07-01 **...Amended: 2005-08-11** GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.7 /05	Rexer, K.; Schumacher, R.	2010	Storage stability in HDPE/PA of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) (accelerated storage test) - Final report - Bayer CropScience, Report No.: FF0064(AC02)N01, Edition Number: M-384287-01-1 Date: 2010-06-10 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.7 /06	Rexer, K.; Schumacher, R.	2010	Storage stability in HDPE/EV of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) (accelerated storage test) (low temperature test) - Final report - Bayer CropScience, Report No.: FF0064(AC03)N01, Edition Number: M-384294-01-1 Date: 2010-06-10 GLP/GEP: no, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.7 /07	Rexer, K.	2012	Shelf life in HDPE/PA of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) (24 months at room temperature) - Final report - Bayer CropScience, Report No.: FF0064(SL02)N01, Edition Number: M-433973-01-1 Date: 2012-06-26 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.7 /08	Rexer, K.	2012	Shelf life in HDPE/EV of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) (24 months at room temperature) - Final report - Bayer CropScience, Report No.: FF0064(SL03)N01, Edition Number: M-433977-01-1 Date: 2012-06-26 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.8.2 /01	Haase, D.; Rexer, K.	2003	Determination of the persistence of foam Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032733, Edition Number: M-231970-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience

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KCP 2.8.2 /02	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.4 /02** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.6 /05** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience
KCP 2.8.6 /01	Haase, D.; Rexer, K.	2004	Determination of the emulsifiability Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 + 75 g/l Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C041117, Edition Number: M-230080-01-1 Date: 2004-04-14 GLP/GEP: no, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.8.6 /02	Haase, D.; Rexer, K.	2003	Determination of the storage stability (Accelerated storage test at 14 days at 54 degrees C) Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032735, Edition Number: M-231973-01-1 Date: 2003-05-13 GLP/GEP: no, unpublished **...also filed: KCP 2.7 /01** **...also filed: KCP 2.8.7 /02**	N	N		Bayer CropScience
KCP 2.8.6 /03	Haase, D.; Rexer, K.	2003	Determination of the low temperature stability Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032734, Edition Number: M-231972-01-1 Date: 2003-05-09 GLP/GEP: no, unpublished **...also filed: KCP 2.7 /02**	N	N		Bayer CropScience
KCP 2.8.6 /04	Haase, D.; Rexer, K.	1994	Storage stability of Fenoxaprop-P-ethyl oil in water emulsion 69 g/L Code: Hoe 046360 24 EW14 A200 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: A53094, Edition Number: M-133853-02-1 Date: 1994-10-07 **...Amended: 1995-10-27** GLP/GEP: no, unpublished **...also filed: KCP 2.7 /03** **...also filed: KCP 2.8.7 /03**	N	N		Bayer CropScience

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KCP 2.8.6 /05	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.4 /02** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.7 /04**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience
KCP 2.8.7 /01	Haase, D.; Rexer, K.	2003	Determination of the pourability Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032738, Edition Number: M-231979-01-1 Date: 2003-05-08 GLP/GEP: no, unpublished	N	N		Bayer CropScience

Annex point / reference number	Author(s)	Year	Title Source Company name, Report No., Date, GLP status, published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner
KCP 2.8.7 /02	Haase, D.; Rexer, K.	2003	Determination of the storage stability (Accelerated storage test at 14 days at 54 degrees C) Fenoxaprop-P-ethyl + mefenpyr-diethyl oil in water emulsion 69 +75 g/L Code: AE F046360 24 EW14 A717 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C032735, Edition Number: M-231973-01-1 Date: 2003-05-13 GLP/GEP: no, unpublished **...also filed: KCP 2.7 /01** **...also filed: KCP 2.8.6 /02**	N	N		Bayer CropScience
KCP 2.8.7 /03	Haase, D.; Rexer, K.	1994	Storage stability of Fenoxaprop-P-ethyl oil in water emulsion 69 g/L Code: Hoe 046360 24 EW14 A200 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: A53094, Edition Number: M-133853-02-1 Date: 1994-10-07 **...Amended: 1995-10-27** GLP/GEP: no, unpublished **...also filed: KCP 2.7 /03** **...also filed: KCP 2.8.6 /04**	N	N		Bayer CropScience

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KCP 2.8.7 /04	Rexer, K.; Schumacher, R.	2010	Physical, chemical and technical properties of fenoxaprop-p-ethyl + mefenpyr-diethyl EW 144 (69+75 g/L) - Final report - Bayer CropScience, Report No.: FF0064(PC00)G01, Edition Number: M-384276-01-1 Date: 2010-06-08 GLP/GEP: yes, unpublished **...also filed: KCP 2.1 /05** **...also filed: KCP 2.4 /02** **...also filed: KCP 2.5 /04** **...also filed: KCP 2.6 /02** **...also filed: KCP 2.8.2 /02** **...also filed: KCP 2.8.6 /05**	N	Y	Data generated to support representative product after change of formulation	Bayer CropScience
KCP 2.9 /01	Frisch, G.; Simon-Hullmann, U.; Rexer, K.	1995	Physical and chemical compatibility of Fenoxaprop-P-ethyl + carbopyrafen-ethyl oil in water emulsion 69 + 75 g/L Code: Hoe 046360 24 EW14 A700 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: A55115, Edition Number: M-139094-01-1 Date: 1995-09-18 GLP/GEP: no, unpublished	N	N		Bayer CropScience
KCP 2.11 /01	Haase, D.; Rexer, K.	1992	Corrosion characteristics of Fenoxaprop-P-ethyl oil in water emulsion 69 g/L Hoechst AG, Frankfurt am Main, Germany Bayer CropScience, Report No.: A47750, Edition Number: M-136353-01-1 Date: 1992-04-10 GLP/GEP: no, unpublished	N	N		Bayer CropScience