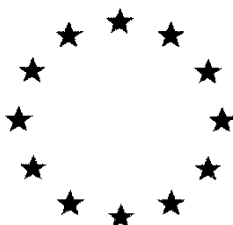


# *European Commission*



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

## **ETHOFUMESATE**

### **Volume 3 – B.2 (PPP) – Ethofumesate SC 500**

Rapporteur Member State: Austria  
Co-Rapporteur Member State: Denmark

## Version History

When	What
1998	Initial DAR
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## **B.2. PHYSICAL AND CHEMICAL PROPERTIES OF THE PLANT PROTECTION PRODUCT**

### **ETHOFUMESATE SC 500**

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	Estimation at room temperature OPPTS 830.6303	Specification n° 102000002286-02 Batch number: ECED101300  Purity 44.3 % w/w ethofumesate	Physical state: suspension liquid.	Acceptable	Y	M-424523-01-1 Rexer K. 2012
	Visual estimation at room temperature. Munsell system of colour notation OPPTS 830.6302		Color: light brown			
	Estimation at room temperature OPPTS 830.6304		Odor: aromatic, musty.			
	B.2.2. EXPLOSIVE AND OXIDIZING PROPERTIES					
Explosive properties B.2.2/01	EC A.14 DSC apparatus	AE B049913 00 SC45 A2  Batch number: AE B049913 00 SC45 A203  Purity 43.9 % w/w Ethofumesate	No danger of explosion.	Acceptable  Formulation AE B049913 00 SC45 A2 was taken which differs slightly. Composition is reported in Volume 4 of BayerCropScience.	Y	M-215401-01-1 Smeykal H. 2002
Oxidizing properties B.2.2/02	EC A.21 Statement	AE B049913 00 SC45 A2	No oxidizing properties.	Acceptable  Formulation AE B049913 00 SC45 A2 was taken which differs slightly. Composition is reported in Volume 4 of BayerCropScience.	N	M-236605-01-1 Le Gren I. 2004

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
<b>B.2.3. FLAMMABILITY AND AUTO-FLAMMABILITY</b>						
Flash point of the liquids formulations B.2.3/01			Not relevant as the preparation is an aqueous suspension concentrate.			
Flammability of solid formulations B.2.3/02			Not relevant for liquid preparations			
Self-heating of formulation B.2.3/03	EC A.15	AE B049913 00 SC45 A2 Batch number: AE B049913 00 SC45 A203 Purity 43.9 % w/w Ethofumesate	Auto-inflammable under the conditions of the test with a self-ignition temperature of 501°C.	<b>Acceptable</b>  Formulation AE B049913 00 SC45 A2 was taken which differs slightly. Composition is reported in Volume 4 of BayerCropScience.	Y	M-215402-01-1 Smeykal H. 2002
<b>B.2.4. ACIDITY/ALKALINITY AND PH VALUE</b>						
pH of the neat aqueous formulation B.2.4/01	CIPAC MT 75.3 OPPTS 830.7000	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	Undiluted: 7.2	<b>Acceptable</b>	Y	M-424523-01-1 Rexer K. 2012
pH of a 1 % dilution of the solid or non aqueous formulation B.2.4/02			1 % dilution in deionized water pH = 7.1 at room temperature			M-492338-01-1 Rexer K. 2014
Acidity / Alkalinity B.2.4/03			Not relevant because the pH value is between 4 and 10.			
<b>B.2.5. VISCOSITY AND SURFACE TENSION</b>						
Viscosity of the liquid formulation B.2.5/01	CIPAC MT 192 OECD 114 Rotational viscosimeter OPPTS 830.7100	Specification n° 102000002286-02 Batch number: ECED101300  Purity 44.3 % w/w ethofumesate	$\eta = 341 \text{ mPa.s}$ at shearstress of $20 \text{ s}^{-1}$ at $20^\circ\text{C}$  $\eta = 145 \text{ mPa.s}$ at shearstress of $100 \text{ s}^{-1}$ at $20^\circ\text{C}$  $\eta = 283 \text{ mPa.s}$ at shearstress	<b>Acceptable</b>	Y	M-424523-01-1 Rexer K. 2012

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results		Comments (Acceptable / Non acceptable)	GLP	Reference
			of 20 s <sup>-1</sup> at 40°C  η = 110 mPa.s at shearstress of 100 s <sup>-1</sup> at 40°C				
Surface tension of the formulation B.2.5/02	EC A.5 ring tensiometer, OECD 115	Specification n° 102000002286-02  Batch number: ECED101300   Purity 44.3 % w/w ethofumesate	Undiluted : σ = 40 mN/m at 25°C  Dose : 1 g/L in deionized water σ = 51 mN/m at 20°C		Acceptable	Y	M-424523-01-1 Rexer K. 2012
B.2.6. RELATIVE DENSITY AND BULK DENSITY							
Relative density of the liquid formulation B.2.6/01	EC A.3, OECD 109, OPPTS 830.7300	Specification n° 102000002286-02  Batch number: ECED101300  Purity 44.3 % w/w ethofumesate	D <sub>4</sub> <sup>20</sup> = 1.131                      at 20°C  D <sub>4</sub> <sup>40</sup> = 1.116                      at 20°C		Acceptable	Y	M-424523-01-1 Rexer K. 2012
Bulk density (pour and tap) of powder or granules B.2.6/02			Not applicable as the preparation is a suspension concentrate.				
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	Specification n° 102000002286-02  Batch number: ECED101300  Purity 44.3 % w/w ethofumesate  Commercial type packaging : HDPE material.			Acceptable  No major changes in physical properties.  Stable throughout the test period of 14 days at 54°C.	N	M-424531-01-1 Rexer K. 2012
	Content of active method AM016709FF1		Initial	After 14 d at 54 °C			
	Stability of the packaging material		501 g/L	503 g/L			
	pH-value			No adverse interaction between the packaging and the preparation was observed.			
			Undiluted : 7.2	Undiluted : 6.9			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results		Comments (Acceptable / Non acceptable)	GLP	Reference
	CIPAC MT 75.3 OPPTS 830.7000		1 % in deionised water: 7.1	1 % in deionised water: 6.9			
	Persistent foaming CIPAC MT 47.2		0.5 % in Standard Water D	Foam after 1 min			
			25 mL	28 mL			
			2.3 % in Standard Water D	Foam after 1 min			
			30 mL	33 mL			
	Suspensibility CIPAC MT 184		0.5 % in Standard Water D				
			100 % ethofumesate	99 % ethofumesate			
			2.3 % in Standard Water D				
	Spontaneity CIPAC MT 160		99 % ethofumesate	99 % ethofumesate			
			94 % ethofumesate	93 % ethofumesate			
	Wet sieve test CIPAC MT 185		0.001 % residue on a 75 µm sieve	0.004 % residue on a 75 µm sieve			
	Pourability CIPAC MT 148		Residue : 2.94 % Rinsed residue : 0.16 %	Residue : 2.93 % Rinsed residue : 0.18 %			
<b>Effect of low temperature on stability of liquid formulation</b> <b>B.2.7/02</b>	CIPAC MT 39.3	Specification n° 102000002286-02 Batch number: ECED101300  Purity 44.3 % w/w ethofumesate  Commercial type packaging : HDPE material.			<b>Acceptable</b>	N	M-424531-01-1 Rexer K. 2012
	Separation Visual inspection		<b>Initial</b>	<b>After 7 d at 0 °C</b>			
			No visible separation	No visible separation			
	Suspensibility CIPAC MT 184		0.5 % in Standard Water D				
			100 % ethofumesate	100 % ethofumesate			
			2.3 % in Standard Water D				
			99 % ethofumesate	100 % ethofumesate			
	Wet sieving CIPAC MT 185		0.001 % residue on a 75 µm sieve	0.001 % residue on a 75 µm sieve			
<b>Shelf life following storage at ambient temperature</b> <b>B.2.7/03</b>	CIPAC MT 46.3	Specification n° 102000002286-02 Batch number: ECED101300  Purity 44.3 % w/w ethofumesate			<b>Acceptable</b>	N	M-467727-01-1 Rexer K. 2013
			<b>Initial</b>	<b>After 2 years</b>			
	Content of active method AM016709FF1		501 g/L	506 g/L			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results		Comments (Acceptable / Non acceptable)	GLP	Reference
	Stability of the packaging material	Commercial type packaging : HDPE material.		No adverse interaction between the packaging and the preparation was observed.			
	pH-value CIPAC MT 75.3 OPPTS 830.7000		Undiluted : 7.2	Undiluted : 6.4			
	Persistent foaming CIPAC MT 47.2		1 % in deionised water: 7.1	1 % in deionised water: 6.5			
			0.5 % in Standard Water D    Foam after 1 min				
			25 mL	27 mL			
	Suspensibility CIPAC MT 184		2.3 % in Standard Water D    Foam after 1 min				
			30 mL	36 mL			
			0.5 % in Standard Water D				
			100 % ethofumesate	100 % ethofumesate			
	Spontaneity CIPAC MT 160		2.3 % in Standard Water D				
			99 % ethofumesate	99 % ethofumesate			
	Wet sieve test CIPAC MT 185		94 % ethofumesate	98 % ethofumesate			
	Particle size distribution CIPAC MT 187		0.001 % residue on a 75 µm sieve	0.009 % residue on a 75 µm sieve			
d (0.1) 0.84 µm d (0.5) 1.87 µm d (0.9) 4.22 µm		d (0.1) 0.84 µm d (0.5) 1.87 µm d (0.9) 4.22 µm					
Residue : 2.94 % Rinsed residue : 0.16 %		Residue : 2.86 % Rinsed residue : 0.17 %					
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 as the preparation is a suspension concentrate.				



Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
<b>B.2.8.2. Persistence foaming</b>						
Persistence of foaming of the diluted formulation B.2.8.2/01	CIPAC MT 47.2	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	Dose : 0.5 % (2 L/ha in 500 L CIPAC water D) After 1 minute = 25 mL  Dose : 2.3 % (2 L/ha in 100 L CIPAC water D) After 1 minute = 30 mL		Y	M-424523-01-1 Rexer K. 2012
<b>B.2.8.3. Suspensibility</b>						
Suspensibility of water dispersible formulation B.2.8.3/01	CIPAC MT 184	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	Dose : 0.5 % (2 L/ha in 500 L CIPAC water D) After 1 minute = 100 % ethofumesate  Dose : 2.3 % (2 L/ha in 100 L CIPAC water D) After 1 minute = 99 % Ethofumesate		Y	M-424523-01-1 Rexer K. 2012
Spontaneity of dispersion of water dispersible formulation B.2.8.3/02	CIPAC MT 160	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	94 % ethofumesate		Y	M-424523-01-1 Rexer K. 2012
Dispersion stability of SE, OD or EG formulation B.2.8.3/03			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.8.4. Degree of dissolution and dilution stability</b>						
Degree of dissolution of water soluble formulation B.2.8.4/01			Not applicable as the preparation is a suspension concentrate.			
Dilution stability of water soluble formulation B.2.8.4/02			Not applicable as the preparation is a suspension concentrate.			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
<b>B.2.8.5. Particle size distribution, dust content, attrition and mechanical stability</b>						
<b>B.2.8.5.1. Particle size distribution</b>						
Wet sieve test of water dispersible formulation B.2.8.5.1/01	CIPAC MT 185	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	0.001 % residue on a 75 µm sieve.	Acceptable	Y	M-424523-01-1 Rexer K. 2012
Size distribution of particles of powder or granule B.2.8.5.1/02	CIPAC MT 187	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	D (0.1) = 0.81 µm D (0.5) = 1.82 µm D (0.9) = 4.12 µm	Not required for SC formulation type	Y	M-424523-01-1 Rexer K. 2012
Nominal size range of granule B.2.8.5.1/03			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.8.5.2. Dust content</b>						
Dust content of granular formulation B.2.8.5.2/01			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.8.5.3. Attrition</b>						
Attrition characteristics of granules and tablets B.2.8.5.3/01			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.8.5.4. Hardness and integrity</b>						
Hardness of tablets B.2.8.5.4/01			Not applicable as the preparation is a suspension concentrate.			
Integrity of tablets B.2.8.5.4/02			Not applicable as the preparation is a suspension concentrate.			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
<b>B.2.8.6. Emulsifiability, re-emulsifiability, emulsion stability</b>						
Emulsifiability, emulsion stability and re-emulsifiability of formulation B.2.8.6/01			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.8.7. Flowability, pourability and dustability</b>						
Flowability of granular formulation B.2.8.7/01			Not applicable as the preparation is a suspension concentrate.			
Pourability of suspensions B.2.8.7/02	CIPAC MT 148	Specification n° 102000002286-02 Batch number: ECED101300 Purity 44.3 % w/w ethofumesate	Residue: 2.94 % Rinsed residue : 0.16 %	Acceptable	Y	M-424523-01-1 Rexer K. 2012
Dustability of dustable powders after accelerated storage B.2.8.7/03			Not applicable as the preparation is a suspension concentrate.			
<b>B.2.9. PHYSICAL AND CHEMICAL COMPATIBILITY WITH OTHER PRODUCTS INCLUDING PLANT PROTECTION PRODUCTS WITH WHICH ITS USE IS TO BE AUTHORISED</b>						
Physical and chemical compatibility of tank mixtures B.2.9/01			Not applicable as tank mixtures with other pesticides are not recommended on the labels.	Required at national level if tank mixtures will be recommended in respective country.		
<b>B.2.10. ADHERENCE AND DISTRIBUTION TO SEEDS</b>						
Distribution and adhesion to seeds B.2.9.10/01			Not applicable as the preparation is a suspension concentrate.			

Test or Study & Data point	Guideline and method	Test material purity and specification	Used methods / Results	Comments (Acceptable / Non acceptable)	GLP	Reference
<b>B.2.11. OTHER STUDIES</b>						
			None			

Ethofumesate SC 500 (specification number 102000002286) is a suspension liquid, light brown in colour. It has an aromatic, musty odour. The preparation has no explosive, auto-flammable and oxidising properties under normal condition of use. Its self-ignition is 501°C. Its pH is within the range which naturally occurs e.g. in soils. Its persistent foaming has been tested and found to be conformed. The preparation is stable (in HDPE packaging) throughout the test period of 14 days at 54°C, 7 days at 0°C and 2 years at ambient temperature. The active substance is stable under storage conditions and does not decline to less than 95% of the content prior to the test. The content of relevant impurities in the preparation is less than 1mg/kg of Ethofumesate technical content. Its technical properties indicate that no particular problem have to be expected when it is used and stored as recommended.

**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	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 2.1 /01	Suessmann, R.; Rexer, K.	2002	Determination of the physical state Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027623, Edition Number: <u>M-213687-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.1 /02	Suessmann, R.; Rexer, K.	2002	Determination of the colour Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027615, Edition Number: <u>M-213671-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.1 /03	Suessmann, R.; Rexer, K.	2002	Determination of the odour Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027616, Edition Number: <u>M-213673-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.1 /04	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: KCP 2.4 /02 ...also filed: KCP 2.5 /03 ...also filed: KCP 2.6 /02 ...also filed: KCP 2.8.2 /04 ...also filed: KCP 2.8.3 /03 ...also filed: KCP 2.8.5.1 /02 ...also filed: KCP 2.8.7 /02	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)

Data Point	Author(s)	Year	Title Compagny 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 2.2 /01	Baker, G. P.	1991	POSSIBLE PHYSICO-CHEMICAL HAZARDS OF ETHOFUMESATE AND ITS FORMULATIONS Schering AG, Berlin, Germany Bayer CropScience, Report No.: A83422, Edition Number: <u>M-155690-01-1</u> EPA MRID No.: 41997203 GLP/GEP: n.a., unpublished <b>...also filed: KCP 2.3 /01</b>	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.2 /02	Smeykal, H.	2002	Explosive properties Ethofumesate water miscible suspension concentrate, 500 g/L Code: AE B049913 00 SC45 A203 Siemens Axiva GmbH & Co. KG, Sicherheitstechnik, Frankfurt am Main, Germany Bayer CropScience, Report No.: C028518, Edition Number: <u>M-215401-01-1</u> Date: 2002-11-29 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.2 /03	Le Gren, I.	2004	Tramat 500 Assessment on the oxidising properties Code: AE B049913 00 SC45 A2 Bayer CropScience S.A., Lyon, France Bayer CropScience, Report No.: C044933, Edition Number: <u>M-236605-01-1</u> Date: 2004-11-02 GLP/GEP: no, unpublished	N	Y	Data requirement	Bayer Crop Science	Submitted for the purpose of renewal (2014)
KCP 2.3 /01	Baker, G. P.	1991	POSSIBLE PHYSICO-CHEMICAL HAZARDS OF ETHOFUMESATE AND ITS FORMULATIONS Schering AG, Berlin, Germany Bayer CropScience, Report No.: A83422, Edition Number: <u>M-155690-01-1</u> EPA MRID No.: 41997203 GLP/GEP: n.a., unpublished <b>...also filed: KCP 2.2 /01</b>	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.3 /02	Bittner, P.; Rexer, K.	2002	Determination of the flash point closed Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027699, Edition Number: <u>M-213837-</u>	N	N	-	Bayer Crop Science	In DAR (1998)

Data Point	Author(s)	Year	Title Compagny 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
			<u>01-1</u> Date: 2002-10-31 GLP/GEP: yes, unpublished					
KCP 2.3 /03	Smeykal, H.	2002	Auto-flammability (Determination of the temperature of self-ignition of volatile liquids and of gases) Ethofumesate water miscible suspension concentrate, 500 g/L Code: AE B049913 00 SC45 A203 Siemens Axiva GmbH & Co. KG, Sicherheitstechnik, Frankfurt am Main, Germany Bayer CropScience, Report No.: C028519, Edition Number: <u>M-215402-01-1</u> Date: 2002-11-29 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.4 /01	Bittner, P.; Rexer, K.	2002	Determination of the pH-value Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027701, Edition Number: <u>M-213840-01-1</u> Date: 2002-10-31 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.4 /02	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished <b>...also filed: KCP 2.1 /04</b> <b>...also filed: KCP 2.5 /03</b> <b>...also filed: KCP 2.6 /02</b> <b>...also filed: KCP 2.8.2 /04</b> <b>...also filed: KCP 2.8.3 /03</b> <b>...also filed: KCP 2.8.5.1 /02</b> <b>...also filed: KCP 2.8.7 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.5 /01	Bittner, P.; Rexer, K.	2002	Determination of the viscosity Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027702,	N	N	-	Bayer Crop Science	In DAR (1998)



Data Point	Author(s)	Year	Title Compagny 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
			Edition Number: <u>M-213843-01-1</u> Date: 2002-10-31 GLP/GEP: yes, unpublished					
KCP 2.5 /02	Bittner, P.; Rexer, K.	2002	Determination of the surface tension Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027700, Edition Number: <u>M-213839-01-1</u> Date: 2002-10-31 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.5 /03	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: <b>KCP 2.1 /04</b> ...also filed: <b>KCP 2.4 /02</b> ...also filed: <b>KCP 2.6 /02</b> ...also filed: <b>KCP 2.8.2 /04</b> ...also filed: <b>KCP 2.8.3 /03</b> ...also filed: <b>KCP 2.8.5.1 /02</b> ...also filed: <b>KCP 2.8.7 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.6 /01	Bittner, P.; Rexer, K.	2002	Determination of the density Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027698, Edition Number: <u>M-213835-01-1</u> Date: 2002-10-31 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.6 /02	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: <b>KCP 2.1 /04</b> ...also filed: <b>KCP 2.4 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)

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			...also filed: KCP 2.5 /03 ...also filed: KCP 2.8.2 /04 ...also filed: KCP 2.8.3 /03 ...also filed: KCP 2.8.5.1 /02 ...also filed: KCP 2.8.7 /02					
KCP 2.7 /01	Palmer, J. H.	1998	Identity and accelerated storage stability of the plant protection product up to 2 months at 40 degrees centigrade; Code: AE B049913 00 SC45 A102 (CR 18654/01)-Ethofumesate suspension concentrate (SC) 500 g/l; AgrEvo UK Crop Protection Ltd., Chesterford Park, United Kingdom Bayer CropScience, Report No.: A91183, Edition Number: <u>M-167890-01-1</u> Date: 1998-01-28 GLP/GEP: yes, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.7 /02	Suessmann, R.; Rexer, K.	1999	Determination of the storage stability Ethofumesate + phenmedipham + desmedipham emulsifiable concentrate 128 + 62 + 16 g/L Code: AE B049913 01 EC20 A204 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C003081, Edition Number: <u>M-185582-01-1</u> Date: 1999-03-17 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.7 /03	Suessmann, R.; Rexer, K.	2002	Determination of the storage stability (accelerated storage test 14 days / weeks at 54 degrees C) Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027622, Edition Number: <u>M-213685-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.7 /04	Suessmann, R.; Rexer, K.	2002	Determination of the low temperature stability Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203	N	N	-	Bayer Crop Science	In DAR (1998)

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			Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027621, Edition Number: <u>M-213683-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished					
KCP 2.7 /05	Rexer, K.	2012	Storage stability at elevated temperature and cold stability of ethofumesate SC 500 (500 g/L) - Packaging material: HDPE - Final report Bayer CropScience, Report No.: FM0110(AC01)N01, Edition Number: <u>M-424531-01-1</u> Date: 2012-02-06 GLP/GEP: no, unpublished	N	Y	Data requirement	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.7 /06	Haack, K. J.	2013	EMS and iBMS in Ethofumesate containing formulations Bayer CropScience, Report No.: <u>M-450734-01-1</u> , Edition Number: <u>M-450734-01-1</u> Date: 2013-04-12 GLP/GEP: no, unpublished	N	Y	New regulatory requirement	Bayer Crop Science	Submitted for the purpose of renewal (2014)
KCP 2.7 /07	Rexer, K.	2013	Shelf life of ethofumesate SC 500 (500 g/L) - Packaging material: HDPE - Final report (2 years) Bayer CropScience, Report No.: FM0110(SLF01)N01, Edition Number: <u>M-467727-01-1</u> Date: 2013-10-21 GLP/GEP: no, unpublished	N	Y	Data requirement	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.8.2 /01	Suessmann, R.; Rexer, K.	1999	Determination of the persistent foam Ethofumesate + phenmedipham + desmedipham emulsifiable concentrate 128 + 62 + 16 g/L Code: AE B049913 01 EC20 A204 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C003079, Edition Number: <u>M-185579-01-1</u> Date: 1999-03-17 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.8.2 /02	Steinke, K.	1994	BETANAL PROGRESS OIL EC (CQ 1549) - PERSISTENT FOAMING	N	N	-	Bayer Crop Science	In DAR (1998)

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			Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: A61744, Edition Number: <u>M-145285-01-1</u> Date: 1994-01-12 GLP/GEP: no, unpublished				ce	
KCP 2.8.2 /03	Suessmann, R.; Rexer, K.	2002	Determination of the persistence of foam Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027618, Edition Number: <u>M-213678-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.8.2 /04	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: <b>KCP 2.1 /04</b> ...also filed: <b>KCP 2.4 /02</b> ...also filed: <b>KCP 2.5 /03</b> ...also filed: <b>KCP 2.6 /02</b> ...also filed: <b>KCP 2.8.3 /03</b> ...also filed: <b>KCP 2.8.5.1 /02</b> ...also filed: <b>KCP 2.8.7 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.8.3 /01	Suessmann, R.; Rexer, K.	2002	Determination of the suspensibility Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027619, Edition Number: <u>M-213679-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.8.3 /02	Suessmann, R.; Rexer, K.	2002	Determination of the spontaneity Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH,	N	N	-	Bayer Crop Science	In DAR (1998)

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			Frankfurt am Main, Germany Bayer CropScience, Report No.: C027620, Edition Number: <u>M-213681-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished					
KCP 2.8.3 /03	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: <b>KCP 2.1 /04</b> ...also filed: <b>KCP 2.4 /02</b> ...also filed: <b>KCP 2.5 /03</b> ...also filed: <b>KCP 2.6 /02</b> ...also filed: <b>KCP 2.8.2 /04</b> ...also filed: <b>KCP 2.8.5.1 /02</b> ...also filed: <b>KCP 2.8.7 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.8.5.1 /01	Suessmann, R.; Rexer, K.	2002	Determination of the particle size (wet sieving) Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027617, Edition Number: <u>M-213676-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.8.5.1 /02	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: <b>KCP 2.1 /04</b> ...also filed: <b>KCP 2.4 /02</b> ...also filed: <b>KCP 2.5 /03</b> ...also filed: <b>KCP 2.6 /02</b> ...also filed: <b>KCP 2.8.2 /04</b> ...also filed: <b>KCP 2.8.3 /03</b> ...also filed: <b>KCP 2.8.7 /02</b>	N	Y	Former study was not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.8.6 /01	Suessmann, R.; Rexer, K.	1999	Determination of the emulsifiability Ethofumesate + phenmedipham + desmedipham emulsifiable	N	N	-	Bayer Crop Science	In DAR (1998)

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			concentrate 128 + 62 + 16 g/L Code: AE B049913 01 EC20 A204 Hoechst Schering AgrEvo GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C003076, Edition Number: <u>M-185572-01-1</u> Date: 1999-03-17 GLP/GEP: no, unpublished					
KCP 2.8.7 /01	Suessmann, R.; Rexer, K.	2002	Determination of the pourability Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A203 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C027624, Edition Number: <u>M-213689-01-1</u> Date: 2002-10-28 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)
KCP 2.8.7 /02	Rexer, K.	2012	Physical, chemical and technical properties of ethofumesate SC 500 (500 g/L) Bayer CropScience, Report No.: FM0110(PC00)G01, Edition Number: <u>M-424523-01-1</u> Date: 2012-01-24 GLP/GEP: yes, unpublished ...also filed: KCP 2.1 /04 ...also filed: KCP 2.4 /02 ...also filed: KCP 2.5 /03 ...also filed: KCP 2.6 /02 ...also filed: KCP 2.8.2 /04 ...also filed: KCP 2.8.3 /03 ...also filed: KCP 2.8.5.1 /02	N	Y	Former study not according to GLP	Task Force Ethofumesate	Submitted for the purpose of renewal (2014)
KCP 2.9 /01	Jacob, T.; Rexer, K.	2002	Determination of the physical and chemical compatibility Ethofumesate water miscible suspension concentrate 500 g/L Code: AE B049913 00 SC45 A200 Bayer CropScience GmbH, Frankfurt am Main, Germany Bayer CropScience, Report No.: C021453, Edition Number: <u>M-211234-01-1</u> Date: 2002-03-21 GLP/GEP: no, unpublished	N	N	-	Bayer Crop Science	In DAR (1998)