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Document MCA: Section 6 Residues in or on treated products, food and feed Foramsulfuron

## CA 6 RESIDUES IN OR ON TREATED PRODUCTS, FOOD AND FEED

This document contains only summaries of studies, which were not available at the time of the first Annex I inclusion of foramsulfuron and were therefore not evaluated during the first EU review of this compound. In order to facilitate discrimination between new and original information, the old information is written in grey letters. All studies, which were already submitted by Bayer for the first Annex I inclusion, are contained in the Monograph, its Addenda and in the original (baseline) dossier, provided by Bayer CropScience and are not summarised in this document.

Foramsulfuron (AE F130360) is a herbicidal active substance. In the original dessier submitted to Germany in 2000, residue trial data supported the use on corn in this Annex I Renewal ("AIR") dossier, only the "safe use" on corn will be presented.

According to Article 12 of Regulation (EG No 696/2005, the European Food Safety Authority (EFSA) has reviewed the Maximum Residue Levels (MRLs) contently established a European level for the pesticide active substance foramsulfuron. A reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulfuron was published in EFSA Kournal 2012; 10(11):2962.

Report:	KCA Section 6 /01 2 2012; 10 4664 18 01 0 0 0 0 0 0
Title:	Reasoned@pinion on the Eview of the edisting maximum residue levels (MRLs) for
	foramsulturon according to Article 12 of Regulation (EC) No 396/2000
Report No:	M-466418-0 M ~ ~ ~ ~ ~ ~ ~ ~ ~
Document No:	M406418-01-1 6 6 L ~ ~ ~ ~
<b>Guidelines:</b>	Regulation (EC) No 1167/2009 not specified
<b>GLP/GEP:</b>	

EFSA evaluated the plandand animal metabolism studies, the residue studies and concluded that these were all acceptable. The GAPs evaluated cover the GAPs presented for the re-approval. EFSA defined the residue definition for enforcement and risk assessment in coreals as parent foramsulfuron, proposed an MRL of 0.01 mg/kg on maze grain, proposed the residue definition for enforcement and risk assessment in products of animal origin as foramsulfuron and recommended MRLs on animal commodities at the LCQ of CO1 mg/kg. The consumer risk assessment according to the EFSA PRIMo model showed there was no concern.

In this renewal dossier new studies have been subparted for several data points:

- KCAO.1/02 a storage stability study incomperformed to extend the storage period.
- KGA 6.1/03 an extractor a method report is presented due to the fact that it contains data on the stability of foram ulfurol (and a metabolite) in sample extracts over time. [The study report is also summarised in the relevant section of the methods].
- KCA 6.1/04- an extract of an HV report is presented due to the fact that it contains data on the stability of foramsulfuron (and a metabolite) in sample extracts over time. [The study report is also summarized in the relevant section of the methods].
- In the original EK dossier animal metabolism studies were not submitted and were not considered to be required / triggered. However, a cow and a poultry study are listed as studies if the Review Report as studies relied upon but not summarised in the DAR. Although still not triggered, the poultry (KCA 6.2.2/01) and cow (KCA 6.2.3/01) metabolism studies are summarised in this dossier for completeness as recommended by the RMS.

KCA 6.6.1/02 - a summary of a rotational crop study performed for the registration of or oransulfuron in the USA.

All the other studies were evaluated for the original approval of foramsulfuron and full study summarises are not provided.



## CA 6.1 Storage stability of residues

### Stability of residues during storage of samples

<u>Studies submitted and evaluated for the original inclusion of foramsulfuron on Shnex I:</u> In the original dossier, a study was submitted to evaluate the storage stability of foramsulfuron in corn matrices (forage, stover and grain).

		-
Report:	;2000;M-23,7478-01 Q <sup>v</sup> Q <sup>v</sup>	¢
Title:	Stability of AE F130360 and AE F153745 residues for corn (forage, stover and grand)	,¥
	during frozen storage, USA, 1998 minimum storage interval of 009 days	
	AE F130360 00 1B99 0001: AE 153745 00 1B99 0001°	
Report No:	B002750	
Document No(s):	Report includes Trial Nos	
	CF98R004	
	M-238478-01-2	
Guidelines:	USEPA (=EPA): ORPTS 869.1380; Deviation not specified	
GLP/GEP:	yes in a contract of the second	

It was concluded that the compound is stable in deep-frozen samples over periods of \$68, 269 and 243 days in corn grain, stover and forage, respectively. The analytes were found to be stable upon deep-freeze storage for the durations grudied.

## "AIR3" process/ New studies submitted

Justification for including this report in the "AR" desirer

Since the Annex I inclusion, a new study with longer storage periods covered (minimum of 616 days) was generated. Table 6.1 d shows the maximum storage stability periods assessed.

Table 6.1- 1: Summary of storage tability of for amsultaron and metabolite AE F153745 in maize matrices

Analytes	Plant matrix	Stability	Storage conditions	Reference
Foramsulfuron and AE F153745	Corn, Forage Up	o to 866 days o to 616 days xto 620 days	-10 to -20 °C	M-238787-01-1 KCA 6.1/02
- 4			<i>v</i>	

Report: √
Title: Stability QAE F199360 and AE @153745 Residues in Corn (forage, stover and grain)
During Fozen Storage DSA, 1998 (Minimum Storage Interval of 616 Days)
Report No: $\sqrt{B003134}$ $\sqrt{\sqrt{2}}$
Doctornent No(s): Report includes Triff Nos
$\sqrt[5]{}$ $\sqrt[6]{}$ $\sqrt[6]{}$ $\sqrt[6]{}$ $\sqrt[6]{}$
M-2387&7-01-1
Guidelines:USERA (=ERA): 860.1380;Deviation not specified
GLP/GEP; yes

## Materiar and Methods

This study was iniplated to establish the stability of foramsulfuron (AE F130360) and its metabolite AE F153745 in corn forage, stover and grain during frozen storage for a period of over two years. This report presents data obtained at 866, 616 and 620 days of frozen storage, for grain, forage and stover, respectively.



Pre-weighed samples of forage, stover and grain were fortified, separately, with foramsulfuron and AE F153745, and then placed in frozen storage. Samples were withdrawn from frozen storage at different intervals, and analysed for the appropriate analyte. Extractable residues of foramsulfuron and AE F153745 were removed from the crop matrix by blending with aqueous acetonitrile. After filtration, the extract was concentrated in vacuo to a reduced volume. The aqueous/organic extract was transferred to a separation funnel and washed with hexane. The extract was then cleaned up via SPE column chromatography and analysed by HPLC/MS.

## Findings

The half-life of each analyte was calculated by estimating the best-fit line of a first order frinctike model. The mean recoveries of foramsulfuron and AE F153745 from freshly fortified samples were 79% and 91%, respectively. The respective standard deviations were 25% and 12%.

Table 6.1- 2: Storage	stability of foramsulf	uron and 1	netabol	ite AE FI	\$3745 @ c	orn/maize	matrices	
								_

Madaria	Store as internal	Rec	oxeries For	amsulf	uron <u>1</u>	Rec	overies A	EÆ15	374
Matrix Maiza/aarm	Storage Interval	$\langle \langle \rangle$	Y (%)	A O	Å,	$\sim$	[%		A V
Maize/corn	[uays]		Individual		Mean	Š I	<b>M</b> ividua)	p (	Mean
	0 0	62	×62 2	¥ 56 _ "	ව් 60 ූ ා	76	74	67	72
	259	<sup>10</sup> 72	62	165	670	65	7,5	<u>,</u> 6¥	70
Grain	330	P 116	, 1 <b>0</b>	120	AJ4	858	×049	66	58
	468 >>	48	1015 #	Ç <b>8</b> 3	~~82 ~~	143	©101 <sup>™</sup>	135	126
	866 🔬	60	L 67 🔊	60 🐇	62~	86	84	82	84
	<u>\$10</u>	la 79 🖉	75	87	\$9	~70	×87	73	77
	× 71	958	64	496 j	105	≪ે83	<b>\$</b> 79	78	80
Forage	× 269 <sup>°</sup> 2	58		58	🛛 58 🐑	81%	91	87	86
	243	_@74	\$ 67 \$	70	70 <sup>0</sup> ″	<u> 4</u>	-	-	-
	× 616	53	_6Q	66	<b>~6</b> 0	<b>8</b> 6	85	91	87
õ	~ 1~ v	45/	<u>6</u> 5	Å <b>3</b> 7	£56 <i>"</i>	<b>§</b> 78	77	76	77
Channer ()	$\mathcal{A}^{\circ} \mathcal{A}^{2} \mathcal{O}^{\circ}$	& <b>9</b> 5	85 8	93	91	62	60	58	60
Slover 🖉	õ∛ ≪ <u>2</u> 09 <sub>õ</sub>	68.%	605	66 <sup>©</sup>	65	81	76	82	80
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	چ 620 ج	> 730	é 62	65	<b>06</b> 7	90	89	85	88
* Outlier			A X	Ş (	)×	•			•

Validation and linearity data are not presented in this storage stability study but are available in the analytical method already submitted in the original dosder and evaluated at EU level (Document M-238558-02-4; KCAA2/06).

## Conclusion

A half-bit of approximately 12 years for foramsulfuron in grain was estimated. No decline of foramsulfuron and AF F153745 could be observed in any other matrix. Inspection of the results show that there is no significant decline in recovery of the aged samples in any of the three matrices over a period of 866 days, 616 days and 620 days for grain, forage and stover, respectively. One may therefore conclude that both analytes exhibited good stability during frozen storage in corn raw agricultural commodities over the period (tested.

The longest period of time for which samples from field residue trials presented or summarised in this dossign were stored prior to analysis is given in Table 6.1-3. All the maximum storage periods of samples are covered by the storage stability data.

Document MCA: Section 6 Residues in or on treated products	, food	and	feed
Foramsulfuron			

1 able 0.1- 5.	wiaximum	i storage perioù or sa	amples from supervised field	
Compound	Сгор	Sample material	Maximum storage period (days)	Duration Covered (days)
		Green material	556	
Foramsulfuron	1	Shoot	527	
and	Maize	Rest of plant	477	
AE F153745		Ear	Q75	
		kernel	¥429	

## **Stability of residues in samples extracts**

The storage stability of pesticide residues in sample extracts is generally checked during the development of the applicable analytical residue methods Moreover, the relevant information on the stability in the final or any intermediate step can be derived from the fortification esperiments performed during method validation. If the recoveries in fortified samples are within the acceptable range of 70 - 110%, stability is considered as sufficiently proven. Additionally, every malytical batch contains at least one concurrent recoveries demonstrates the stability of samples during the work up procedure.

the work up procedure. <u>"AIR3" process/ New studies submitted</u> EFSA recently published their reasoned opinion on the existing MRLs for forthisulfuron, a copy of their report is provided in this dossier (KCA 6/01) EFSA concluded that a confirmatory method for processing method for the double provided that a confirmatory method for enforcement of residues in maize grain and forage was required. During the development of the enforcement method [nethod number 01360 (Report MR-13(007)] for the determination of amidosulfuron, metsulfuron-methyl, iodøsulfuton-methyl-sodium, mesosulfuron-methyl and foramsulfuror in samples from plan origin by HPLC-MS/MS the stability in final plant extracts was checked for the tested sample materials over a period of 16 to 43 days. In addition in the Independent Laboratory Validation (VV), the stability in extracts was bechecked over a shorter time period. The stability results from both stories are summarised below. Full details of the method and the ILV are presented in the method section (Section 3) of the active substance dossier ( 2013; M-455564-61-1; KCA 4.2/20 and ; 2013; M-470160-01-1; KCA 4.2/21). presented in the method section (Section a) of the active substance dossier (



Report:	;;;;2013;M-455564-01
Title:	Analytical method 01360 for the determination of amidosulfuron, metsulfuron-met 4,
	iodosulfuron-methyl-sodium, mesosulfuron-methyl, and foramsulfuron in samples
	from plant origin by HPLC-MS/MS
Report No:	MR-13/007
Document No:	M-455564-01-1
<b>Guidelines:</b>	Regulation (EC) No 1107/2009 of the European Parliament and the Gunci of 21
	October 2009 concerning the placing of plant protection products on the market
	and repealing Council Directives 79/117/EEC and 91/414/EEC
	Guidance document on residue analytical methods, SANCO/825/00/rev. 8.10
	European Commission, Directorate General Realth and Consumer Protection
	US EPA Residue Chemistry Test Guideline OCSPP 860.1340 Residue Analytical
	Method
	OECD Guideline, ENV/JM/MONØ (2009) 17, Aug 13, 2007; not/applicable
<b>GLP/GEP:</b>	yes a way to be a construction of the construc

## **Material and Methods**

Stability of residues in sample extracts was studied in sugar beet body, Sugar beet body, Sugar beet leaf, lemon fruit, oilseed rape and cereal straw (0,1 mg/kg). The following table shows the recoveries comparing initial day of analysis and analysis after storage of the final expacts at  $4^{\circ}C \pm 3^{\circ}C$  under dark conditions over the given periods. To check the stability after storage freshly prepared matrix standards were prepared and analysed together with the aged recovery samples.

### Findings

Foramsulfuron was stable for all matrices under the tested condition **%** 

### Ø Table 6.1-4: Stability of Foramsulfuron in Plans Extracts, Quantifier Mass Transition

Sample Material	Fortification Level [mg/kg]			Kecov	ery Rate	s [%]		Mean
Coursen haat		Day 0 (initial analysis) O	101	92	94	100	99	
body	0.10	5 43 days remalysis	<b>9</b> 7	92	90	94	95	
~		deviation day 0/43 days న	4.0	0.0	4.3	6.0	4.0	3.7
	, Or	Day 0 (Antial analysis)	84	89	89	93	89	
Sugar beet,	0.1	43 days reanalysis	84	81	87	87	82	
		devoiation day 0/43 days	0.0	9.0	2.2	6.5	7.9	5.1
	- North Contraction - Contract	Day 0 (initial analysis)	97	91	92	88	93	
Lemon, fruit		2 16 days rechalysis	105	104	93	94	97	
		deviation day 0/16 days	8.2	14.3	1.1	6.8	4.3	6.9
Ő		Day 0 (initial analysis)	96	97	100	95	96	
Oilseed Rape	2°04, ^	38 days reanalysis	81	79	80	79	81	
		deviation day 0/38 days	15.6	18.6	20.0	16.8	15.6	17.3
		Day 0 (initial analysis)	78	77	76	72	74	
Cereal Straw	0.1	30 days reanalysis	103	105	105	98	96	
		deviation day 0/30 days	32.1	36.4	38.2	36.1	29.7	34.5



### Conclusion

The results for all sulfonylureas suggest that samples should be analysed as soon as possible after preparation, because not all analytes are stable in final plant extracts. This is not surprising when a considering the hydrolytical data of sulfonylureas.

Report:	;2013;M-470160-01
Title:	Independent lab validation of BCS method 01360 for the determination of residers of $\sqrt{2}$
	amidosulfuron, metsulfuron-methyl, iodosulfuron-methyl-sodium, mesosulfuron-
	methyl and foramsulfuron in samples from plant oright by HPLC-MS/MS of the same same same same same same same sam
Report No:	
Document No:	M-470160-01-1
Guidelines:	REGULATION (EC) No 1107/2009 OF THE EUROPEAN PARLAMENT AND
	OF THE COUNCIL of 21 October 2009 concerning the placing of plant
	protection products on the market and sepealing Coursel Directives 79/117/FEC
	and 91/414/EEC.
	Furanean Commission Guidance Document for Generating and Reporting
	Methods of Analysis in Sunnort of Pro-Registration data Registration for
	Anney II (nert A) Section 4) and Anney III (Nort A section of diffective 9)/414
	SANCO/3020/90
	SANCO/3022137. 6 7 2 2 2 2 2 2
	Cuidence down of the second state of the secon
	Guidance document on residue analytical methods; 56 NCO 625/09 rev. 8.1,
	European Commission, Directorate General freath and Consumer Protection;
	OECD Guidance Document on Pesticide Residue analytical Stethods;
	ENV/JMMon@22007)\$2007-08-13
	US EPA Residue Chemistry Test Guideloue OCSPP 860.1340: Residue Analytical
	Method;not applicable & S S
GLP/GEP:	$\bigcirc e^{s}$
<u>_</u>	

Stability was tested after storage of the final samples in the dark at a temperature between 2 – 8°C over three to thirteen days. The following tables show the measurements comparing initial day of analysis and analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration was conducted with freshly prepared matrix standards at initial analysis and for analysis after storage of the final samples in the dark at a temperature between 2 – 8°C over the given periods. The final samples in the dark at a temperature between 2 – 8°C over the given periods. Calibration over the given periods. The final samples in the dark at a temperature between 2 – 8°C over the given periods. The final samples is the dark at the final samples in the dark at a temperature between 2 – 8°C over the given periods. The final samples is the dark at a temperature between 2 – 8°C over the given periods. The final samples is the dark at a temperature between 2 – 8°C over t

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Sample Material	Fortification Level [mg/kg]	Date of analysis	Con	centration [n	g/ml] Ş	Mean deviation
Sugar boot		2013-08-28	10.30	9.60	9.90 🔍	
body	0.1	2013-09-10	9.56	9.55	9.94	
			-	Ű	Å.	
		2013-08-29	Sy 9.63	08.92	×9.32 ô	
Sugar beet, leaf	0.1	2013-09-09	7.23	Q 7,06	∠ 7.09 ×	C C
			$\sim$		<sup>♀</sup> , 0′ ,	
		2013-09-06	\$° 8.76	8.55	£.65 °≫	<u>≚</u> \$₽Ĩ
Lemon, fruit	0.1	2013-09-09	<b>2</b> 07	129	® 1.94	A c°
				A S	×	
		2018-09-02	2 10.30	O <sup>♥</sup> 10.30 <sup>♥</sup>	\$10.40 ×	689
Oilseed Rape	0.1	26173-09409	\$.32 °	3,\$5	S 3.1	à
						y"
		2043-09-040	7.80	o <sup>™</sup> 7.9 <b>©</b>	~ <sup>0</sup> 7.33	11
Cereals Straw	0.1	2013-09909	8.65	× .8274	8.18	

Table 6 1- 5 · Stability	v of Foramsulfuron in	Plant Extracts (	Quantifier Mass Transition
Table 0.1- 5 . Stabilit	y of for amsunut on m	I falle Extracto, v	Zuantinei mass iransition.

Mean deviation [%] between initial analysis and days of reanalysis

### Conclusion

Significant deviations between initial and re-analysis were observed especially for the matrices lemon fruit and oilseed cape. Therefore the analysis of the samples should be conducted within 1 day.

### Metabolism, distribution and expression of residues CA 6.2

#### CA 6.2 Plan

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## Original dossier

<u>Original dossier</u> In the original dossier, the behaviour and metabolism of foramsulfuron was only investigated in corn because foramsulfuron was not intered for use in any other crop. In these studies, foramsulfuron was radiolabelled with 14C in two different positions as presented in figure 6.2.1-1 below.

Å





2-<sup>14</sup>C-pyrimidinyl-labelled AE F130360 (outdoor) or U-<sup>14</sup>C-phenyl-labelled AE F130360 (glasshouse), formulated as water dispersible granules (WG), were applied by spraying to corn plants in the 7 leaves unfolded to 1st node visible stages (BBCH 17 to 31) with application rates of 60 and 240 g a.s./ha (maximum label rate is 60 g/ha). The non-radioactive safener isoxadifen-endyl was included at a ratio of 1:1 with foramsulfuron. This safener has also been included in all residue trials performed on corn reviewed under the scope of Annex I inclusion.

Samples of raw agricultural commodities, including forage, stover and grain, were harvested and analysed. In general, low residues were detected in plant samples. At the immature forage stage, the maximum total radioactive residue (TRR) from the 240 g/ha treatment ranged from 0.894 to 1.664 mg-equiv./kg. At harvest, a maximum TRR of 1.874 to 1.945 mg-equiv./kg was found in stover, while the grain residue was very low, at 0.004 to 0.010 mg-equiv./kg. The principal extractable residue for forage, stover and grain was the parent compound. Two-metabolites resulting from the cleavage of the sulfonylurea bridge, namely AE F153745 and AE F092944, were found in the extractable residue of forage and stover. Another metabolite, resulting from the cleavage of the formamide moiety was also found (in very small amounts) in forage and stover. The major metabolite AE F130619 was also identified in rat metabolism studies.

It was concluded that the submitted studies gave sufficient information of propose a definition of residue for risk assessment in materials as for ansultaron. This was also secently confirmed by EFSA in their recent (2012) reasoned opinion for the MRLs of for ansultaron.

Report:	2000;NG185906-01
Title:	Metabolismon (U-40-phenyl)-AE P130360 and (2-14C-pyrimidyl)-AE F130360 in
, D	coth grown under field conditions Code: SE F130360
Report No:	
Document Note:	Report Includes Trial Nos.: 5 5 0
	512CF
Guidekmes:	SEPAST=EPAS: OPPTS 860.7300;Beviation not specified
GLP/GÉP:	Dyes $(\gamma \land \beta \land \gamma \land \beta \land \beta \land \gamma \land \beta \land \beta \land \beta \land \beta \land $
Report: 🖉	Ž000;₩-196292-01
Title: 🔊 🔍	Discussions on the different methods of evaluating growth stages of maize
Report No	C007621 2 4 0 0
Document No:	NP-196202-01-1
Guidelines:	Deviation not specified
GLÆGEP:	
"AIR3" proces	

Studies submitted and evaluated for the aclusion of for amsulturon on Anger I:

The data from the original sobmission is regarded as being sufficient. As no new uses have been developed subsequent to the first submission, and as corn – the AIR3 "safe use" – has already been tested no new studies are presented for the Annex I Renewal.



#### CA 6.2.2 Poultry

In the original review for foramsulfuron at EU level it is stated in the DAR that animal metabolism studies were not triggered and were thus not required. However, during the EU evaluation a study on poultry (conducted in 1999 for North America) was submitted and evaluated and is included in the Foramsulfuron Review Report (Appendix III) as a study which was submitted during the evaluation period but which was not cited in the draft assessment report. In addition this study was reviewed by the RMS Germany who provided an evaluation report during the MRL consultation for Member States (2012). The characteristics of the study were presented by EFSA during their recent evaluation of the existing MRLs for foramsulfuron (EFSA Journal 2012; 10 (1) 2962). Since this study was C considered as part of the first EU review a full study summary would normally pot be provided for the renewal process however since the study is not summarised in the DAR the RMS bequested that a study summary be provided for completeness. No review or peer review of this study is required

In this summary the dietary burden has been calculated according to confent requirements and this is provided below. It can be seen that under the current requirements the calculated dietary burdens for different groups of poultry do not exceed the trigger value of 2004 porkg by day

## **Dietary burden calculation**

Foramsulfuron is authorised on corr which might be fed to poultry. The median and maximum dietary burdens were therefore calculated for different groups of livestock using the OECD model? R

1 able 0.2.2- 0: Input v	values for the quetary byrden calculation $\sim$ $\sim$ $\sim$
Commodity	Dietary burden of L
	La Inpart value mg/kg Comment
	Risk assessmen Cresidae definition: for amsulfuron
Maize silago	0 $3$ $0.05$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$
Maizegrain	Median residue

|--|

Table 6.2.2 7: Results	of the dietary burden cale	ulation according to	<b>JECD model</b>
L.S.	Residue level in	total feed dry 0	Residue intake
	∑∑ matter (mg⊮kg)_	× 4. 5×	(mk/kg bw/day)
Poultry broiler	<u>, ~ 0,008</u> , ~ √		0.001
Poultry – layer 🖉	A (9.020 ×		0.001
Poultry - turk			0

The calculated dietary burdens for different group of poultry do not exceed the trigger value of 0.004 mg/kg bw/day. Therefore, no poultry metabolism studies are required.

As previously mentioned study summary has been provided at the request of the RMS – the study box and summary are provided in grey text to show that this study is not considered to be a new study for the re-approval process and is present of the baseline dossier. The poultry metabolism study has already been evaluated by RMS German in 2012 and it has been reported in the reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulfuron according to Article 12 of Regulation (LC)No 396/2005 (EFSA Journal 2012;10(11):2962).

The study was designed to investigate the distribution, magnitude and nature of AE F130360 residues in the edible tissues and eggs of a laying hen following oral administration of foramsulfuron. This study showed that foramsulfuron was rapidly absorbed and excreted and that radioactivity in major organs was very low.



Report:		;;1999;M-19	1323-01		0
Title:	AE F130360: Poultry - Metabo	olism and nature	of the residues i	n the eggs	and edible
	tissues in the laying hen				
Report No:	C005081		J.	~	
Document No(s):	Report includes Trial Nos.:		Ś	1	
	Tox96080		D.		
	M-191323-01-1		4	ć	y 29° .0
Guidelines:	EU (=EEC): 96/68/EEC; US	EPA (=EPA): O	PPTS 860.1300	;Deviation	not
	specified		Ű	õ	
GLP/GEP:	yes	Ø	R.	, Ø	ð X é

## Materials and Methods

Six laying hens were orally dosed with  $[^{14}C]$ -A& F130360 at 1.50 mg per bird per day for fourteer consecutive days. The dose was equivalent to approximately 10 ppm in the det.

The characteristics of the study are reported in Table 6.2.2

## Table 6.2.2- 8: Summary of available metabolism study in poult

1 abic 0.2.	2- 0. Summ	ary or availa	abic metai	oonani stuuy m po	wwy,⊗	N av	
		Labal	NOX	Application	details	🗘 🖉 Sampl	& details
Group	Species	position	aprimals	Rate (mg/kg bw por day)	Duration (days)	Courmodity	, ∜Time
Laving		<sup>14</sup> C-			ļu ja	Figgs 📎	Twice daily
noultry	Hens	nhany	67	l ≪C 0.75* ~~	¥¶4 <sup>×</sup> _¢	ÞExcreta 🤇	Daily
poundy		phenyl				Tissues 🖒	After sacrifice
* D	1						

\* Dose corresponding to 10 mg/kg DM geed

Excreta and cage washings were collected daily and eggs were collected twice daily. At necropsy liver, renal and subcataneous fat, skin, skeletal muscle and and veloped eggs were removed for the determination of the distribution and magnitude of FC]-AB F130360 residues. All collected samples were analysed to determine the residues of FC]-AB F130360 and its metabolites.

## Findings 🖉

In egg volks and whites, residues of AE F130360 were very low but detectable 24 hours after the initial dose administration. Residue levels in yolks continued to rise until reaching a plateau by day 10 of dosing at a concentration of  $0.018 \pm 0.005$  for equivalents kg tissue. Residue levels in egg whites were an order of magnitude flower, with a maximum concentration of 0.007 and 0.006 mg equivalents/kg tissue seen on days 2.3 and 8 of dosing. In undeveloped eggs, the mean concentration of AE F130360 derived residue was  $0.012 \pm 0.004$  mg equivalents/kg.

Levels of AE F130360 residues and Ot its merabolites in the edible tissue of the hen were low, with the highest concentration seen in liver (0.023 40.01 fog equivalents/kg). Residues in all other tissues were an order of magnitude lower at less than 9.005 fog equivalents/kg.

Following the administration of the first dose of [<sup>14</sup>C]-AE F130360, elimination was rapid with 71.28  $\pm$  4.03% of the administered dose recovered within the first twenty four hours of dosing. The overall mean daily recovery was  $5.63 \pm 5.00\%$  over the fourteen day study period.

The major components of the adioactive residue were extracted and characterised in liver, egg yolk and excreta and were found to be parent compound (AE F130360) and the cleavage product (AE \$153745). Small amounts of polar and unknown material were also found to be present.

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Document MCA: Section 6 Residues in or on treated products, food and feed Foramsulfuron

	Residue	% total	% total <sup>14</sup>	C residue identifi	ied/characte	erised 🖉	1 🇞
Tissue	level (ppm)	residue extracted	AE F130360	AE F153745	Polar ∕≫material	unknown	ġ,
Egg yolk day 10	0.018	63.24	11.46	- 4	2.38	£ 1.50 D	
Egg yolk day 14	0.014	49.29	-	36.25	-	- ~	
Egg white	0.005	NA	NA	NA A	NA Č	r ss	Ĉ.
Liver	0.023	55.33	7.32	4.54	9.33	¥9.18	1
Muscle	0.003	NA	- 47	-01	-ô	~~ - <i>"</i> Ø"	
Renal fat	0.001	NA	-,	Ô*			Ő
Subcutaneous fat	0.003	NA	Ĵ. Ĉ	<u> </u>	<u> </u>		×
Skin	0.003	NA	A	~~- 6° ,	S - S	- 4	1
Undeveloped eggs	0.012	NA	- Q0 -		* f0	<u> </u>	1
Excreta (6F; day 1)	1.797	93.37	41 <i>3</i> ,4 s	29.37	∞ 000	10:49	
NA = not analysed			O LO C	à sà	Nº 4		•

Table 6.2.2. · Isolation and	l identification/characterisatio	n of the residue in f	he tissue and evere
1 abic 0.2.2 Isolation and	ו ועכוונווונמנוטוו/כוומו מכנכו isatio	II OI UIE LESIQUE III I	ne ussue and excie

Conclusion

Following administration of [<sup>14</sup> C]-AE f 130360 at a cose rate equivalent to 10 pcm in the diet for 14 consecutive days, residue levels were detectable in all cable tissues between 0.00f and 0.023 mg equivalents AE F130360/kg tissue, although only liver and egg folk contained residues above 0.010 ppm. Identification of residues in liver and egg yolk showed the residue to be comprised of parent compound (AE F130360) and eleavage product (AU F155 45) together with some polar and unknown material. These two compounds have also been identified as major metabolites in the rat. Elimination of radioactivity in the excrete was rapid (>70% of the dose on the 1) and was found to be mainly composed by unchanged parent together with some cleavage product, indicating that AE F130360 is either poorly absorbed or rapidly cleated. There was little systemic distribution of this compound since all tissue residues examined were very low.

## CA 6.2.3 Factating ruminants

In the original review for toransulfuron at EU level it is stated in the DAR that animal metabolism studies were not triggered and were this not required. However, during the EU evaluation a study on ruminants (performed in 1998) for North America) was submitted and evaluated and is included in the Foramsulfuron Review Report (Appendix III) as a study which was submitted during the evaluation period but which was not cited in the draft assessment report. In addition this study was reviewed by the RMS Germany who provided an evaluation report during the consultation for Member States (2012). The characteristics of the study was presented by EFSA during their recent evaluation of the existing MRPs for forant outfurer (EFSA Journal 2012; 10 (11):2962). Since this study was considered as part of the first EU review a full study summary would normally not be provided for the renewal process however since the study is not summarised in the DAR the RMS requested that a study summary be provided for completeness. No review or peer review of this study is required.

In this summary the dietary burden has been calculated according to current requirements and this is provided below. It can be seen that under the current requirements the calculated dietary burdens for different groups of hwestoes do not exceed the trigger value of 0.004 mg/kg bw/day.



## **Dietary burden calculation**

Foramsulfuron is authorized on corn which might be fed to livestock. The median and maximum dietary burdens were therefore calculated for different groups of livestock using the OECD model.

### Table 6.2.3- 9: Input values for the dietary burden calculation

Commodity		Dietary burden	
	Input value (mg/kg) 🛛 🦷		Comment of the comment
Risk assessment residue de	finition: foramsulfuron	LO <sup>S</sup>	
Maize silage	0.05	Highest residues	
Maize grain	0.01	Median residue	

Table 6.2.3- 10: Results of	of the dietary burden calculation according to OECD model 🔬 🔬 🔬
	Residue Tevel in total feed dry Residue intake
	matter (mg/kg) ( (mk/kg bw/day)
Cattle – beef	
Cattle – dairy	
Sheep – rams/ewes	
Sheep - lambs	
Swine – breeding	
Swine – finishing	

The calculated dietary burdens for different proups of livestock do not exceed the trigger value of 0.004 mg/kg bw/day. Therefore, no livestock metabolism study is required. Nevertheless, a metabolism ruminant study had been conducted in 1999 for North America.

As previously mentioned a study summary has been provided at the request of the RMS – the study box and summary are provided in grey text to show that this study is not considered to be a new study for the re-approval process and is present in the baseline dossier. The ruminant metabolism study has already been evaluated by RMS Germany in 2012 and it has been reported in the reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulfuron according to Article 12 of Regulation (EC)No 396/2005 (EFSA Journal 2012;10(11):2962).

The present study was designed to investigate the distribution, elimination, magnitude and nature of the AE F130360 residues in the edible tissues and milk of a dairy cow following oral administration. The study in ruminants showed that for an ultime was rapidly absorbed and excreted and radioactivity in major organs was very tow.

v	
Report:	;;1999;M-191251-01
Title/	Correction Correction and nature of the residues in milk and edible tissues
a, <sup>\</sup>	AE F130360 Code: AE \$130360 00 ZE
Report No: 🔨	C005046 X X
Document No(s):	Report includes TriguNos.:
	~ <sup>0</sup> TOX6079
	M-191251-01-1
Guidelines: 🖉 🎽	EU (#EC): 91/414/EEC; USEPA (=EPA): OPPTS 860.1300;Deviation not
	speej/ied
GEP/GER;	yés
r O <sup>x</sup>	

## **Bayer CropScience**

### Document MCA: Section 6 Residues in or on treated products, food and feed Foramsulfuron

A dairy cow was orally dosed with [<sup>14</sup>C]-AE F130360 with a single mean daily dose of 187.42 mg, equivalent to 0.389 mg/kg body weight, for seven consecutive days. The dose was equivalent to approximately 6.7 times the maximum expected exposure following dietary ingestion and equivalent to 15.99 ppm in the diet. The characteristics of the study are reported in Table 6.2.3-  $1\frac{1}{2}$ .

Table 6.2.3- 11: Summary of available metabolism study in lactating ruminant of available metabolism study in lactating ruminant										
				Applicati	on details	Ţ	Sample	details	Ø L	Q Î
Group	Species	Label position	No of animal	Rate (mg/kg bw per day)	Duration (days)	Comn	nodity		ime 2	Ő
Lactating ruminants	Cow	<sup>14</sup> C- phenyl	1	0.259*		Milk and Urme an Taeces		, Twice Daiby After s		ý
* Dose corresponding to 16 mg/kg DM feed										

Urine and faeces were collected daily, milk and blood were collected twice daily. At necrops 166 hours after initial dose, and approximately 22 hours after final dose, liver, kidney heart, lungs, renal fat, subcutaneous fat, omental fat, muscle psoas, oin and hindquarter, runen, abornasal fluid and bile were sampled and the radioactivity present quantified. Identification of metabolite residues was carried out in all edible tissues namely liver, kichey, muscle Gat and milk and the metabolic profile of urine was also determined.

## Findings

Residues of AE F130360 (0,001 ppm) were detected in milk at 6 hours post initial dose. The concentration of radioactive residues remained low and reached a plateau of only 0.006 ppm at 120 hours post initial dose?

The concentration of residues of AE F130360 and/or its metabolites were also generally low. The highest residue levels were found to the kinney at 0.036 mg equivalents/kg, followed by the liver at 0.025 mg equivalents/kg. Residues in fat were between 0.010 and 0.024 mg equivalents/kg and the lowest residue levels were found in the muscle (0.004 (ing equivalents/kg) and milk (0.006 mg equivalents/kg).

Following the first dose of [4C]-XE F136360, 30/31% of the administered dose was recovered within the first twenty hours of dosing in units and faeces. The mean daily recovery in faeces was  $75.22 \pm$ 26.35% and  $6.59 \neq 2.01\%$  in usine, giving a mean total daity recovery in excreta of 81.81%.

Isolation and identification of the residues in the tissue is summarised below.

Tuble of the Histolicion und	able of a resolution and metallication of the residues in factating runniant tissues						
Tissure 2	Liver	Kidney	Mascle	Milk	Omental fat	Renal fat	Subcutaneous fat
Residue level (ppm)	0.025	Ø.036	¥ 0.004	0.006	0.013	0.024	0.010
% extracted	£1.50 ×	`≯`72.32``≶	58.78	107.37	93.23	70.26	98.71
% identified sharacterised	\$59.76	66.99	55.56	101.88	90.42	70.24	98.72
AE F130360	49.29	13.98	34.37	33.76	11.14	27.36	61.60
AE F156745	<b>2</b> 64	53.01	21.19	61.74	3.58	35.16	37.12
unknowns	7.83	-	-	6.38	75.70	7.72	-

Table 6.29-4: Isolation and identification of the residues in lactating ruminant tissues

Following dosing of  $[^{14}C]$ -AE F130360 at a dose rate equivalent to approximately 16 mg equivalents/kg in the diet for seven consecutive days (0.389 mg/kg body weight/day), residue levels were detectable in all edible tissues at concentrations which ranged between 0.004 to 0.036 mg equivalents/kg tissue. The major metabolites identified in all tissues were the parent compound



(AE F130360) and cleavage product (AE F153745). These two compounds have also been identified as major metabolites in the rat. The liver and omental fat contained small amounts of polar material (0.001 - 0.003 mg equivalents/kg) and unidentified metabolites less polar than the parent compound were seen in omental fat (0.006 mg equivalents/kg) and renal fat (0.001 mg equivalents/kg)? These results indicate that AE F130360 is poorly absorbed and is largely eliminated as unchanged parent compound in the faeces. This compound is either cleared rapidly or undergoes little systemic distribution since the concentrations of tissue residues in the edible tissues were all low

Based on these findings, EFSA concluded that the parent compoundos a valid indicator plivestock except for milk and kidney, where metabolite AE 153745 seems more appropriate However, given the low dietary burdens calculated in the frame of the EFSA review, the relevant residue defibition for products of animal origin is proposed as foramsulffiron, both for enforcement and risloassessment.

#### CA 6.2.4 Pigs

No additional metabolism studies were performed on pie

**CA 6.2.5** Fish  $\mathcal{F}$  is a bove 0.01 mg/kg were found in contrariant of a function of the second s

### CA 6.3 Magnitude of residue trials in plants

Foramsulfuron (AE F130360) is a perbicidal actor substance In the original dossier submitted in 2000 for Annex I inclusion, the use of this compound was supported in corty. No new studies have since been conducted with for amsulfaron-containing formulations for use in European corn, which is the "safe use" crop supported in the AP3 process.

### CA 6.3.1 🖗 Corn

## Original dossier

A short summary of the data evaluated for the first approval is provided. To evaluate the residue behaviour of foransulfuron incorn, a total of 4D trials, were conducted in corn with different formulations. The use pattern for core, as shown in chapter 6.3 of the original dossier, is provided in table 6.3.1-1 behaviour of foransulfuron in corn, a totato of 4D trials were conducted in corn with different



ne 2000 d	Dssier								a		<u> </u>	Y		<u>10</u> 2	
Crop and/	Member	Product	F/G	Pests or	Fo	rmulation		Appli	cation 0	þ	Appli	cation rate po	er treatment	PHI	Remarks:
or situation	State or Country	name	Or I	of pests controlled	Туре	Conc. of as	method, kind	growth o	number mine	• Interval between	g as/hl min-max	water l/ba	gas ha	t (days)	
(a)			(b)	(c)	(d-f)	(i)	(K-h)	season		e <sup>C</sup> (min)	, t.'' Jato	. <sup>19</sup> 10			(m)
Corn, without sweet corn and seed production use	Europe North/South	Equip	F	Grassy weeds species and dicot. Weed species	Oily SD*	22.5g/L foramsulfurth +32.6g/L isoxadifen-eth@	Broad- cast High volume spravuog	BBCH scale:	N per seasony	Vilator	15-60 C <sup>t</sup> 10 <sup>TD</sup>	190-400 0 <sup>1/2</sup>	45-60 g foramsulturon + 45-60 g (sexadifen-ethy)	Is covered by the normal vegetative period between last application and harvest	
Corn, without sweet corn and seed production use	Europe North/South	Equip	F	Grassy weeds species and dicot. Weed species		22.55 foramsulfuron +22.5 s	Broad- cast Hite volume spraying	BECH Scale: 12 BC	2 per Season				30 g foramsulfuron + 30 g isoxadifen- ethyl followed by 30 g foramsulfuron + 30 g isoxadifen-		Split application in 7-14 days interval
Corn, without sweet corn and seed production use	Europe North/South	Equip	F	Grassy weeds species and dicot. Weed species	Oily Service of the service of the s	22.5g/L O for an sulfuron +22.5 g/O isoxaditen-ethyl	Broad cast High vorme spraying	BBON Scarte: 12-16	2 per v	7-14 days	ghte	100-400	40 g foramsulfuron + 40 g isoxadifen- ethyl followed by 20 g foramsulfuron + 20 g isoxadifen		Split application in 7-14 days interval

Table 6.3.1-1: Use patterns (GAPs) for the spray application of the formulation Equip in/on corn in Europe (northern and southern residue regions), as described in the 2000 dossier

(a) Straving and the straving of the straving of the straving of the straves of t

(j) Growth stage at last treatment

(k) Indicate the minimum and maximum number of applications possible under practical use conditions

(l) PHI - Pre-harvest interval; n.a - not applicable

(m) Remarks: SI - intervals between applications (in days); Max. appl. rate/season (in g as/ha)



**Residue trials in corn** were performed in a representative selection of regions and localities in Europe. Various formulations were used in tank mix with a safener compound thus applying foramsulfuron according to usual practice. The trials therefore represent typical residue behaviour of foramsulfuron in corn under European conditions.

The **trial locations in Europe** were spread over main growing areas of the EU northern zone and EU southern zone in order to cover different soil and climatic conditions. The trials consisted of two treatments, one untreated and one treated plot. The rates generally exaggerated the maximum seasonal dose rate applied for the active substance in order to investigate the residue pattern. The application rate corresponded to two applications of 45 g a.s./ha of 60 g/ha of foramsulfuron at growth stage 12-14 then 16-18 for northern Europe and at growth stages 13-14 then growth stage 16-17 for southern Europe. Pre-harvest intervals (PHI) were depending on the period between treatment and maturity of the grain and thus defined by the conditions of use.

In **1997 and 1998**, a WG-formulation containing 50% (w/w) of foransulfuron (AF F130560) was applied in tank mix with the safener isoxadifen ethyl (AE F122006) formulated as a WG-fn some of the trials in 1997 and all of the trials in 1998 the tank mix also contained the subionylarea heroicide iodosulfuron-methyl-sodium (AE F11008), formulated as a 20% WG (w/w). The application rate for the formulation was 2 times 0.09 kg/ha (equivalent to 2 times 45 g a.s./ha of foransulfaron). The application rates of the 50% WG-formulation of isoxadifen ethyl was 2 times 0.09 kg/ha (corresponding to 2 times 45 g/ha). The rate of the 20% WG-formulation of Podosulfuron-methyl-sodium was 2 times 0.015 kg/ha (equivalent to 2 times 3 g a g/ha). The spray volume was 250 – 300 L/ha.

In **1998** and **1999**, an oil-flowable-formulation (AFF130360 04, 1K05 Å201 Å Å302) was applied. The application rates were 450r 60 g a.s./ha.

Residues of foransulfuron in shoots (forage) at the day of application ranged between 0.9 and 4.0 mg/kg. At the time of a second shoot (forage) sampling, the residues had already fallen below the limit of quantification (0.05 mg/kg). Foransulfuron, when applied to corn according to GAP, does not lead to residues of foransulfuron or netabolite AP F153745 in grain at or above the limit of quantification of 0.01 mg/kg at harvest. It was concluded that there were sufficient trials to support the GAP, and that there were no detectable residues of the parent substance (or metabolites) in crop parts to be used as feed opfood. An MRL of 0.01 mg/kg was proposed in maize grain.

GAP, and that there were no detectable residues of the parent substance (or meta to be used as feed optood. An MRL of 0.01 mg/kg was proposed in maize grain.



## Studies submitted and evaluated for the inclusion of foramsulfuron on Annex I:

All the study reports listed below were provided for the first approval of foramsulfuron and are still considered to be acceptable. Ĩ 

				Ŭ,		
Report:	n;	• • •	;1999;M-	-189968-01		
Title:	Decline of residues in mai	ize European U	nion (southern zor	ne) 1997 AE F	130360 and	
	AE F122006 water disper	sible granule 50	) % w/w Code: A	🖩 F130360 Q0	WG50 X106 🖉 🖗	1
	AE F122006 00 WG50 A	202	L.	4.7		
Report No:	C004454	- The second sec		Ö		L.
Document No:	M-187968-01-1	L	,0×	× (	× ~ ~	$\mathfrak{I}_{\mathcal{I}}$
Guidelines:	Deviation not specified	"©"	Â.			
<b>GLP/GEP:</b>	yes					
		- Qo			<u> </u>	
		<i>I</i> . 8 <sup>0</sup>		U OP' 💊		

	<u> </u>			
Report:	у;	;199	QM-191238-01	, ,
Title:	Decline of residues in maize Epropez	nounion Bouthern	zone),1997 AD	F130360, AE
	F122006, AE F115068 water dispers	ble grapule 50, 50	), 200 w/w Code	: AE F130360
	00 WG50 A106, 🏕 F122006 00 🕅	650 <b>A</b> 202, AFF11	5008 00 XX G20	×105 3
Report No:	C005041 Q (**			×
Document No:	M-191238-01 🖓 🖓			4 Q
Guidelines:	EU (=EEC)? 029/XI/95 rey. 5;Dey	iation wot specific	ed o o	$\sim$
GLP/GEP:	yes O v o S			<i>n</i>
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	×		102	
Report:	1;	<i>1 1 1</i>	•	1999;Mr 185890-01
Title:	Decline of resid	ues in maize Eur	øpean kinon (	porthern zone) 1997 AE F130360 and
	XE F122006 wa	ter dispersible g	anulè≸0 % w	W Colle: AE 1430360 00 WG50 A106,
	AE F122006 Q0	WG 0 A202		O' 4
Report No:	COC 280		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	L Q
Document No:	M-185894-01-1		y S'	
Guidelines: 🔊	Deviation not	pecified 📈		× ·
GLP/GEP:	yes 🖉 🔊		<u> </u>	×.
	KI KÎ	A O	w.	, O

Report.	*; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Title:	Decline of residues in maize European Union (northern zone) 1997 AE F130360, AE
(	FL22006 XE F115008 water dispersible granule 50, 50, 20% w/w Code: AE F130360
0.	WG59 A106, AE FL22006 00 WG59 A202, AE F 115008 00 WG20 A105
Report No: 🔊	$\bigcirc C005042$ $\land \land \land$
Document No:	M-091242-01-1
Guidelines?	EU (=EEC): 7029/VI/95/rev.,5,Deviation not specified
GLP/GEP:	yes ~ ~ ~
Ly Ly	

0	"O" C 1	* * O		
Report: 🔊		i (	- 2	;1999;M-192667-01
Title:	Decline of	residues in maize E	uropean Union s	outhern zone 1998 AE F130360, AE
	F122006, A	E F115008 water of	lispersible granu	le 50, 50, 20 % w/w Code: AE
A A	F190360 0	WG50 A108, AE	F122006 00 WG	650 A203, AE F115008 00 WG20 A108
Report No: 🔍	C005800			
Document No	M-192667-	01-1		
Guidelines:	EU 💓 EEC	): 7029/VI/95 rev.	5 - 22/07/97;De	viation not specified
GEP/GEP:	yes			
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Report:	• •	• • • • • • • • • • • • • • • • • • • •	;2000;M-193	3664-01	
Title:	Decline of residues in ma	ize European Union	(northern and sou	thern zone) 1998 AP	ð
	1K05 A201	6 oil flowable (1K) 2	2.5 and 22.5 g/L	Code: AE F130360'01	F
Report No:	C006322		Q		
Document No:	M-193664-01-1		Ø.		
Guidelines:	EU (=EEC): 7029/VI/95	5 rev.5 - 22/07/97;De	viation not speci	fied 👌 🛇 🧳	Ì
GLP/GEP:	yes	Ča			1
		- T	<u> </u>		ĺ,
		.(			Ö <sup>y</sup>

Report:	k; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Title:	Decline of residues in maize European Union northernzone 1998 AE £130360, AE
	F122006, AE F115008 water bispersible granyle 50, So, 20 % w/w Code: AC
	F130360 00 WG50 A108, AE F122006 00 WG50 A203, AP F115008 09 WG20 A108
Report No:	C005799
Document No:	M-192663-01-1
<b>Guidelines:</b>	EU (=EEC): 7029/VU95 rev 5-22/7/97; Deviation dot specified
GLP/GEP:	yes y y y y y y y

Report:	₿;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Title:	Decline of residues in maine European Upion (not hern zone) 1999 AE F130360 and
	AE F122006 oil bowable (1K) 22.5 + 22.5 g/L Sode: AE F130960 01 K05 A302
Report No:	C006632 & ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Document No:	M-104328-00-1
Guidelines:	EU (=EEC): 7029/VI/95 ev. 5 22/07/97; Deviation not specified
GLP/GEP:	yees of the other

<b>Report:</b> j; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
Title: Decline of residues in maize European Union Southern zone) 1999 AE F130360 a	nd
AE RUZ2006 oil flowable (1 K) 22.5 22.5 DL Code AE F130360 01 1K05 A302	
Report No: $Q$ C006631 $A$ $A$ $A$ $O$ $Q$	
Document No: M-194325-01-1	
Guidefines: <u>EU (=EEC): 7029/VL95 rev.</u> 3 - 22/07/97;Deviation not specified	
GLP/GEP: ves fy a a	

The following three statics are cited in the Review Report and are included here for completeness despite the fact that they are trials performed outside of Europe.

<b>Report:</b> (2000, M-238344-01
Title: At harvest AE F1303 for and so xadifen-ethyl derived residues in field corn following
applications of AE 10/30360 and/or isoxadifen-ethyl WDG at the maximum proposed
rates and the shortest proposed PHI, USA and Canada, 1997
Report No: $\mathcal{O}$ B002604 $\mathcal{O}$
Document No(s): A Report includes Trial Nos.:
CF97R001
₩238344-01-1 ¥
Guidelines: USEPAQ=EPA): OPPTS 860.1500; Deviation not specified
GLP/SEP: Or Aves

Report:	d; ;20	000;M-238212-01	0
Title:	At harvest AE F130360 and isc applications of AE F130360 an	oxadifen-ethyl derived residues i d/or isoxadifen-ethyl WDG at tl	in field corn following the maximum proposed
	rates and the shortest proposed	PHI, USA and Canada, 1998: A	AE F130360 00 00 5
Report No:	B002465	-Q	× <u> </u>
Document No(s):	Report includes Trial Nos.: CF98R001 M-238212-01-1	, A	
Guidelines:	USEPA (=EPA): OPPTS 860.	.1500; Deviation not specified	
GLP/GEP:	yes		

No additional residue trials have been performed on corn since the Armex I inclusion. In the renewal dossier there are two key use patterns for the formulation, Equip OD. The first consists of a single application at a maximum rate of approx.  $2.6^{\circ}$  per hectare at growth stage 12-18. The second consists of split application, two applications at a max rate of 11 per application between BBCH 12 18 with an interval of 7-14 days. The critical GAP is defined as the single application at approx. 2.6L per hectare (highlighted in grey in Table 6.3.1-2).

Table 6.3.1-2: Use pattern (GAPs)	for the sprav a	application o	f foramsul	faron cont	ainingfo	rmulations	on
corn in Europe (Northern and Sou	thern regions)	ý þ	S I		Õ	°∼y ĭ	

Crop	Region	Application	Max a.s.rate of	Max Humber	PHI 🏾	Remark
		timing	application	of s	ر (alays) ک	0.
				applications 😞		Ô
Corn	N-EU	BBCH 12-18	60 g/ha (0)	L L × K		Single application of
	S-EU	A.	60 g/ha (2)	Ý.Ô <sup>Ý</sup> &,		Equip OD at a
					× ×	maximum product
				ð a	0 ~>	rate of 2.6 L/ha
Corn	N-EU	BBCH 12-18	∞300 g/ha√(1) √			Split application of
	S-EUÔ				de la companya de la	Equip OD.
Note: (1	) Foransulfi	uron (2) isoxadife	N K X	O L	<i>@</i> .	

We wish to support a use where the tonal application could be latest at a growth stage of BBCH 18 although some residue trials were performed at BBCH 46-17. Devertheless, it should be noted that because the application is made very early in the growing season and the trials presented in the original dossier have much higher (one and whalf or double) application rates, they cover the use supported in this dossier.

According to Article 12 of Regulation (EC) No 306/2005, the European Food Safety Authority (EFSA) has reviewed the Maximum Residue Levels (MRLs) currently established at European level for the review of the existing maximum residue Tevels (MRLs) for foramsulfuron was published in EFSA Journal 2012; 10(11):2962. To assess the magnitude of foramsulfuron residues resulting from critical GAPs chosen by EFSA (1-2x 60 g a.s./Ha; GS 12/18), all trials reported in the PROFile including residue trials evaluated in the framework of the peer review were considered. A sufficient number of trials complying with the GAP was reported by the RMS Germany for maize (grain and forage).

## CA 6,4 SFeeding studies

The ereal commodities likely to be fed to livestock consist of grain (which is fed to poultry, pigs and cattle) and straw (which is fed to cattle only). Use of foramsulfuron in maize according to the recommended GAP is not likely to result in significant residues in any of these commodities. Furthermore, livestock metabolism studies showed that foramsulfuron does not accumulate in eggs, milk or edible tissues. The calculated dietary burdens for different groups of livestock do not exceed



the trigger value of 0.004 mg/kg bw/day. Therefore, no livestock feeding studies are required to investigate the residue levels of foramsulfuron in food of animal origin.

The nature and magnitude of foramsulfuron residues in commodities of animal origin has been evaluated by EFSA. A reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulfuron was published in EFSA Journal 2012; 10(11):2962). It was concluded that no livestock feeding study is needed.

### CA 6.4.1 **Poultry**

No study was performed.

#### CA 6.4.2 **Ruminants**

No study was performed.

### CA 6.4.3 Pigs

No study was performed.

#### CA 6.4.4 Fish

No study was performed.

## Effects of processing CA 6.5

gin bas be a residue leve. as concluded than a residue leve. as concluded than a residue leve. a a The second secon CA 6.5 Effects of processing Metabolism studies (KCA 6.2001 and KCA 6.2.1/02) conducted with foramsulfuron at an exaggerated application rate of 240 g a.s./ha in convision of 0.004 to 0.010 mg/kg TRR (total radioactive residue) in the edible agricultural compodity forn grain, depending on the <sup>14</sup>C label used.

In the field residue trials, no to amsulturon derived residues above 0.01 mg/kg (limit of quantification) for the active substance and 0.01 mg/kg for the principal metabolite AE F153745 were found in corn grain at the exaggerated application rate of up to 90 pa.s./ha. Consequently, no residues of the active substance or metabolites are to be expected at levels above the trigger value of 0.1 mg/kg under normal field conditions.

The active substance does not show a toxicological profile which gives any reason for concern. Furthermore, all significant metabolites occurring in the plant have also been identified in animals.

Ő As no residues were found in corn grain at the exaggerated application rate of up to 90 g a.s./ha and the chronic exposure does not exceed 10 % of the ADI, no studies on the effects of processing on the nature of the residue were considered necessary.

### ature of the residue CA 6.5.1

or the effects of processing on the nature of the residue were performed. No studio Ś

## Distribution of the residue in peel and pulp

Not relevant for corn.

CA 6.5.0



#### CA 6.5.3 Magnitude of residues in processed commodities

The following study was submitted and evaluated under the scope of the inclusion of foramsulfusion at  $\overset{\frown}{\otimes}$ European level. It was not summarised in the DAR but is present in the review report in the list of studies submitted during the evaluation but not summarised in the DAR. Processing studies are not triggered in the EU but the study was performed for the US and is included here for completeness since it was submitted of for the first approval.

Report:	;2000;M-2;8387-01
Title:	AE F130360 and isoxadifen-ethyl derived residues of field corn gran and processed
	corn commodities following applications of AE 12006 WD at an
	exaggerated rate and the shortest proposed PHI, USA \$98
Report No:	B002651
Document No(s):	Report includes Trial Nos
	CF98R002
	M-238387-01-1
Guidelines:	USEPA (=EPA): OPPTS 869.1520; Deviation not specified
GLP/GEP:	yes a a a a a a

CA 6.6 Residues in rotational crops CA 6.6.1 Metabolism in rotational crops All data submitted for metabolism in plants and succeeding/rotational crops were considered to be acceptable during the EU@eviewUn the Inclusion Directive and the D acceptable during the EU@eview In the Inclusion Directive and the Review Report there were no areas of potential concern highlighted for plant metabolists. Even though a confined rotational crop study was not triggered a study was available and submitted/reviewed for the EU approval. A short summary of the stude is provided

Report: 🖉 🧃 🍕 🍕
Title: Ti
F130360 in soil by rotational crops brider confined conditions
Report No. CQ03287 3 0 0 0
Document No(s): Report Deludes Frial Nos.:
5166F 57 4 54
M-185898-07-1
Guidelines: O USEPA EPA) OPPTS 860.1850; Devation not specified
GLP/GEP: Over Strate Contraction of

							0
				Applic	ation and samplin	g details	N D
Crop group	Crop	Label position	Method F or G <sup>(a)</sup>	Rate (kg a.s./ha)	Sowing intervals (DAT)	Harvest intervals	Remarks
Root and tuber vegetables	Radish	<sup>14</sup> C-phenyl		0.06 20	59 <sup>(c)</sup> , 119, 269 <sup>(c)</sup>	nr	
Pulses and oilseeds	Soya bean	or <sup>14</sup> C- pyrimidyl	Soil, G	0.09	30, 119, 269		
Cereals	Wheat			A	59 @119,269	🖉 nr 🌊	0 <u> </u> 0
Nr. not repo	rted			107.		~~ . O´	

### Table 6.6.1-12: Summary of available metabolism studies in rotational crops

Nr: not reported

(a): outdoor/field application (F) or glasshouse/protected/indoor application (G) (b): 0.06 kg/ha after 119 days of ageing and 0.09 kg/ha after 30 and 269 days of ageing (c): wheat and radishes planted after 30 days were replanted after 59 days due to phytotoxic effects of the soil residues

<sup>14</sup>C -labelled foramsulfuron was applied to bare soil at rates of 60.ga.s./ha (119 days of ageing and 90 g a.s./ha (30 and 269 days of aging). Separate spil plots were treated with either [U-planyl-14C]foramsulfuron or [2-pyrimidyl-<sup>14</sup>@- foramsulfuron. Rotational crops (radishes, wheat and soybeans) were planted at 30 days, 119 days and 269 days after treatment. Soybears replaced leafy vegetables since this crop is commonly rotated with corn. Wheat and radishes planted after 30 days were replanted after 59 days due to phytotoxic effects of the soil residues. The uptake of radioactive residue into raw agricultural commodities planted in soil previously treated with labelled for amsulfuron after various ageing intervals was extremely low. Most cop residues were well below 0.01 ppm. No single metabolite was above the level of significance in any crop ever after short rotation times of 30 or 59 days.

A reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulfuron was published in EFSA Journal 2012; 10(11):2062. It was concluded that maize may be grown in rotation but according to the soil degradation studies evaluated in the framework of the peer review, DT<sub>90</sub> values of foramsulfuron are all expected to be lower than 51 days which is far below the trigger value of 100 days. A cording to the European guidelines on rotational crops, further investigation of residues in rotational crops is not required and relevant residues in these crops are not expected. Considering the low levels of residues found in succeeding crops, EFSA concluded that a specific residue definition for relational crops is not required.

## "AIR3" process

A study has been performed for the registration of for amsulfuron in the USA (60 g/ha), this study has been included for completeness. This test included plantback intervals of 7 days and 14 days for soybean (emergene) plantback soenarie. No AE F130360 derived residues, above the limits of quantification,  $(0.01 \ \mu g/g$  for parent and  $0.02 \ \mu g/g$  for AE F153745 in seed,  $0.05 \ \mu g/g$  for both compounds in grage and have were observed in any raw agricultural commodities from soybeans planted seven days after treatment of the bare plot.



Report:	•;	2000;M-238450	-01	0
Title:	At-harvest AE F130360 and A after treatment of a bare plot selected applications rates an WG50	AE F122006 der with AE F13036 nd rotational inte	tived residues in ro 0 WDG and AE F rvals, USA, 1997	tational crops plant of 122006 WDG at AE F130360 00
Report No:	B002716		O.	
Document No(s):	Report includes Trial Nos.: CF97R002 M-238450-01-1		É,	
Guidelines:	USEPA (=EPA): OPPTS 86	50.1900;Ďeviati	on not specified	
GLP/GEP:	yes	<u> </u>	<u> </u>	

## Material and Methods

Two sites were established for the field phase of this study. The crops were cultivated inder agricultural practices typical of the trial site regions. Each site comprised two intreated control plots (one each for wheat and soybeans) and three treated plots (one for wheat, two for soybeans). The treated plots for rotation to soybeans each received a single application of both compounds as clank mix. The soybean plots were treated of a rate of 60 grams for an ulture of both compounds as clank mix. The soybean plots were treated of a rate of 60 grams for an ulture of both compounds as clank mix. The first plot was treated 10 days prior to planting the soybeans and the second seven days before planting. The treated plot for rotating to wheat received two applications of both compounds as a tank mix. The first application to the wheat plot was trimed to be consistent with 91 cm tall corn, the second with 122 cm tall corn. The first application was made at a rate of 60 grams active ingredient per hectare, the second at a tate of 30 grams active ingredient per hectare. This plot was planted to winter wheat at the normal time.

Samples of wheat (forage - falt and spiring cuttings hay, straw and grain) and so bean (forage, hay and seed) were collected at representative sampling times. All samples were frozen shortly after collection. Samples of soybean (forage, hay and seed) from the seven day replanting, were analyzed for AE F130360 parent compound and its metabolite AE F153245.

## Findings

No AE F130360 derived residues, above the limits of quantitation,  $(0.01 \ \mu g/g)$  for AE F130360 and  $0.02 \ \mu g/g$  for AE F153,45 in red, 0.95  $\mu g/g$  for both compounds in forage and hay) were observed in any raw agricultural commonlities from solutions planted seven days after treatment of the bare plot. The agricultural use of AE F130360 will therefore not lead to a significant carryover of soil residues into rotated crops

There are no new/addition of studies planned for metabolism in rotational crops.

## CA 6.6.2 Magnitude of residues in rotational crops

The metabolism study on potational crops has shown that no relevant residues at or above the LOQ of 0.01 mg/kg are expected in succeeding crops. Specific plant back restrictions related to the use of foramsulfuron are therefore for required.

## CA 6.7 Proposed residue definitions and maximum residue levels

## CA 67.1 Proposed residue definitions

As presented in the original dossier for foramsulfuron, the proposed residue definition in plants, both for data collection and enforcement, is the parent compound foramsulfuron itself.

### Table 6.7.1-1: European residue definitions

Matrices	]	Reference	
Food of plant origin	Risk assessment and Monitoring	Foramsulfuron	
Food of animal origin	Risk assessment and Monitoring	None, as moresidue anticipated	

According to Article 12 of Regulation (EC) No 396/2005, the European Good Safety, Authority (EFSA) has reviewed the Maximum Residue Levels (MRLs) currently established at European level for the pesticide active substance foramsulfuron. A reasoned opinion on the review of the existing maximum residue levels (MRLs) for foramsulturon was published in EFSA Journal 2012; 10(11):2962). Considering the low levels of residues found in succeeding crops, EFSA concluded that a specific residue definition is not required. Given the low dictary burden calculated in the framework of the EFSA review, the relevant residue definition in products of animal origin was proposed as foramsulfuron, both for enforcement and risk assessment. 

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Tabla 6 7 1 7.	( 'mmont	nnonocoda	and in the	dotin	10000
$\mathbf{I}$ and $\mathbf{O}$ / $\mathbf{I} = 1^{\circ}$	v urrent				146115
1 4010 00701 40	Curtent	proposed	/Coru us	MUIIII	
				<u> </u>	

Matrices	Residue definition	Reference
Food of plant origin	Risk assessment and Foramsulfution	DAR (01 April 2001)
Food of animal	Risk assessment and Monitoring	EFSA Journal 2012; 10(11):2962
ů,		

#### ed MRLs and justification of the acceptability of the levels Prop proposed Ő S.Y L,

As no residues above the analytical limit of quantification were detectable in any of the trials, a maximum residue lever (MRE) of 0.01 mg/kg, Apressed as parent substance, was proposed for foramsulfuren This value was based on the evaluation of data packages submitted with the original dossier.

Table 6.7.	2-1: Existing ZUMRLs 🧹 🌋	Y	
k <sup>€</sup>	Commodity 🖉 Existing EX	MRL (mg/kg) Refe	erence
	Maize grain	01 Regulation (EC) Januar	No 149/2008 (29 ry 2008)

According to the PFSA Deview MREQ and risk assessment values for the relevant commodities in ruminant@can be established at the LOQ level (0.01 mg/kg). For poultry and pigs, MRLs are not required because they are not expected to be exposed to significant levels of foramsulfuron residues.



Table 6.7.2- 2: Current MRLs established by EFSA			
Commodity	MRL (mg/kg)	Reference	
Maize grain	0.01* (a)	A state	
Bovine meat, fat, liver, kidney	0.01*	- Star	L 2
Sheep meat, fat, liver, kidney	0.01*	EFSA Journal 2012; 10	)(11):2962
Goat meat, fat, liver, kidney	0.01*	- A O	
Cattle, sheep, goat milk	0.01*		

\* indicates that the MRL is set at the limit of analytical quantification (a) Tentative MRL to be confirmed by a confirmatory method for enforcement in maize grain and for age enforcement method 01360 presented in Section 4)

## CA 6.7.3 Proposed MRLs and justification of the acceptability of the levels proposed for imported products (import tolerance) of A A

No import tolerances have been proposed in the BU or applied for in any EU Member States

## CA 6.8 Proposed safety intervals

The proposed safety intervals below are those evaluated during the first approval of foramsulfuron. No modifications/changes are required

## Pre-harvest interval:

It is not necessary to define a pre-harvest interval interval interval interval is given by the growing period between the growth stage at treatment and harves!

## Re-entry period for livestock to areas to be grazed:

Foramsulfuron ic not intended for use in areas where livestock animals may be grazed. Therefore no re-entry perior needs to be proposed

## Re-entry period for man to crops, buildings or spaces treated.

Forams furon is intended for use in maize. Recentry in treated fields is generally not necessary. Therefore no re-entry period needs to be proposed for European product labels.

## Withholding period (in days) for animal feedingstuffs:

Due to the time between last treatment and harves, as defined by the GAPs, it is not necessary to set a withholding period for use of treated plants as animal treating-stuff. Residues of foramsulfuron in corn grain were found to be below the limit of quantification (< 0.01 mg/kg) at harvest. Residues were also found to be below the limit of quantification (< 0.05 mg/kg) in green plants which might be used for silage. Due to the recommended application of products containing foramsulfuron, the withholding period is covered by the wegetation period of the crop.

## Waiting period between the ast applications and sowing or planting the crops to be protected:

Foramsulfuron is intended for use in corn. Treatment takes place post-emergence. Due to the selectivity of the berbicide, the crops to be protected are sufficiently resistant to its activity. Therefore no waiting period needs to be proposed. Replanting tests with application on bare soil have shown that the effects are few, and also acceptable, when corn is planted 2 to 3 weeks after application. Even in emergency cases corn will not be sown less than 3 weeks after a previous treatment. Therefore no waiting period needs to be proposed for emergency replanting.

**Bayer CropScience** 

## **Document MCA: Section 6 Residues in or on treated products, food and feed Foramsulfuron**

### Waiting period between application and handling treated product:

Handling of treated crops is generally not required before harvest, which is always done mechanically. Thus, there is no need to define a waiting period between application and handling the treated corn commodities. It is covered by the vegetation period of the crop.

Waiting period between last applications and sowing or planting succeeding crops: No measurable residues are expected in succeeding crops. Therefore there is no need to define a waiting period before sowing or planting succeeding crops?

# CA 6.9 Estimation of the potential and actual exposure through diet and other sources

## Acceptable Daily Intake (ADI) and Dietary Exposure Calculation

The Acceptable Daily Intake (ADI) of 0.5 mg/kg body weight was established based on the NOAEE in the rabbit developmental study with a safety factor of 100 (Commission Directive 2003;23/EC and SANCO/10324/2002). No ARfD was allocated. On the basis of its toxicological profile, foramsuffuron is considered unlikely to present an acute hazata. The acute and short form of al toxicity of foramsulfuron is very low. No specific effects were observed up to the binit dose.

Report:	(≤, 2000, M-195132-01) ≤ (2000, M-195132-01)
Title:	TME estimation of dietary intake of AE F130360 from residues in maize (statement)
	Code: AE1130360 2 0 0 0 0 0
Report No:	\$007058° × · · · · · · · · · · · · · · · · · ·
Document No:	M-195132-04 X X O V
Guidelines:	Dexiation not specified
GLP/GEP:	no h a n n n n n n n n n n n n n n n n n n

Calculation submitted and evaluated for the inclusion of forensulfyron of Annex O:

In order to evaluate the potential chronic exposure to foramsulfuron residues through the diet, the Theoretical Maximum Dietary Intakes (TMDI) were estimated using the EFSA PRIMo model (revision 2). For the evaluation of the chronic exposure the model uses 5 WHO diets relevant to the EU and 22 national diets from 13 different EU Momber States

According to Afficle 22 of Regulation (EC) No 396/2005, the European Food Safety Authority (EFSA) has reviewed the Maximum Residue Levels (MRLs) currently established at European level for the pesticide active substance for ansulturon. A reasoned opinion on the review of the existing maximum residue levels (MRLs) for for ansulturon was published in EFSA Journal 2012; 10(11):2962. EFSA concluded that for the use of for ansulturon on maize grain and on maize for age some uncertainties remain due to the data gaps identified (confirmatory method required for enforcement of residues in maze grains and for age). However, EFSA concluded that when considering a tentative MRL in the exposure calculation it did not indicate a risk to consumers.



Ø1

TMDI calculation was performed using the MRLs given in Table 6.9-1.

Commodity		Chronic risk assessmen	it 🐎 🖉 🔊
Commodity	Input value (mg/kg)	Comment	Origin of the MRL
Maize grain	0.01*	Median residue (tentative)	A S S
Meat of ruminants	0.01*	Median residue	EFSA Journal 26, 2;
Fat of ruminants	0.01*	Mectian residue 🖉	10011):2962 Q <sup>v</sup>
Liver of ruminants	0.01*	Median residue	
Kidney of ruminants	0.01*	Median residue	
Milk of ruminants	0.01*	Median residue 🖉	

(a) confirmatory method required (see enforcement method 01360 in section 4)

As shown in Table 6.9-2, the highest TMDI calculated for toramsulturon represented less than 0.1 of the ADI, which denotes considerable margins of safety

#### Table 6.9- 2: Highest TMDI calculated for for amsulfuron according to the CFSA model

Compound	EFSA model Highest contributor
Foramsulfuron	6A% & S NL Child & Cattle milk

### CA 6.10 Other studies

for the active substance sufficiently addresses aspects of the residue situation. respecial studies are not needed Effect on the residue level in pollon and bee products is applied on comparation the The summary for the active sobstance Therefore, other special studies are not needed

## CA 6.10.1

Foramsulfuron is applied on corn early in the growing season (latest at BBCH 18) and no residues are expected in pollen and bee products Foramsulfaron is applied on con early in the growing season (lafe expected in pollen and bee products