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Document Title





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Document M-III /Tier 2, Sec. 4, Point 8 - Metabolism and Residues Data on Iprovalicarb + Folpet WG 65.3 *(Submission for Annex I renewal)*

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- **IIIA 8.8.4** Withholding period (in days) for animal feedingstuffs
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IIIA 8 Metabolism and residues data on the plant protection product

Preface and general remarks

This dossier supports the combination product <u>Iprovalicarb & Folpet WG 65.</u> For use in grapes grown in the southern and northern European residue regions. The wettable granutate formulation contains and 56.25% folpet and 9% iprovalicarb.

This chapter on residues of Iprovalicarb & Folpet WG 65.3 in or on treated products, food or feed is fully bridged from the Annex III dossier, point 8 for \$ZX 0722 & Folpet 43.5 WP (=Iprovalicarb & Folpet WP 43.5, "Melody Combi"), the full text of which is included below (with slight modifications to reflect the current dossier submission situation for both compounds). Both the ratio of actives in the new product as well as the use patterns of both formulations are the same only the concentrations of the actives in the formulation have changed. No change if the residue behaviour is therefore to be expected when changing from the SZX 0722 & Folpet 43.5 WP to the provalicarb & Folpet WQ 65.3 formulation.

<u>Re. folpet:</u>

The representative formulation in the application for Annex Reneval of iprovaticarb is a combination with folpet, which – from a Bayer perspective – is a 3rd party substance, procured from . Bayer CropScience AG has the right of reference to files, data, studies, summaries and assessments owned by the which were submitted in the EU for the support of the registration of the active substance forbet and the representative formulation Folpan 80 WDG. Bayer GropScience's right to references extends to all EU countries. A separate Letter of Access is included in this supplementary dossier (Mr428625-01-20).

Bayer CropScience AG is using a risk envelope approach for the risk assessment of the representative formulation. Within the scope of this applementary dossier, up to A applications at 1.35 kg/ha folpet are proposed as a safe use in grapes. This is much below the critical GAP that currently defends in this crop in the EU, where 10 applications of up to 1.6 kg/ha have been approved, with all other parameters such as interval between applications or pre-harvest interval being identical or very similar. Therefore, Bayer GropScience AQ considers it justified to refer to folpet data owned by wherever appropriate. A folget-specific risk assessment is not considered necessary to defend the Annex Lysting of iprovalication.

Introduction

<u>Iprovalicato</u> (SZX 0722) is a tongicidal active substance. In March 1998, an Annex II dossier for this a.s. was submitted to the Irish PCS acting as rapporteur for the EU. In that dossier, the use of the compound was supported in grapes (data from studies conducted with the solo product, 50 WG) and potatoes data from studies conducted with a combination product with mancozeb, 69 WP). Following EU evaluation, iprovalicarb was added to Annex I in 2002, with provisional MRLs — for which the grape MRLs were based on a supplementary evaluation of approx. 80 residue trials on grapes, with

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approx. 7 different formulations — being published in Commission Directive 2003/60/EC, dated 18 June 2003. The provisional MRLs were for numerous crops and were based not only on the original submission mentioned above, but also on various Annex III dossiers submitted at later dates to individual EU member states. These values were then amended/corrected in Commission Directive 2004/115/EC, dated 15 December 2004; the most recent publication of EU MRDs in connection with Regulation (EC) no. 396/2005 also reflects the 2004 values. The MRL for iprovalicarb in grapes (wine and table grapes) is 2.0 mg/kg.

Iprovalicarb is on Annex I Renewal list 2, with the respective dossier being submitted in May 2012 This Annex III dossier is the "representative Annex IIIC document for the AIR2 submission.

<u>Folpet</u> is an established phthalimide contact fungicide which has been used and registered in many countries both in Europe and worldwide for many years. It is used in numerous crops — both horticultural and agricultural — primarily in those grown outdoors for the EU Annex II submission ational registrations had been granted in various European countries for the use of folpet-containing products in grapes. In **European** is a nex II dosster, an MRL for folpet was proposed in grapes at 5.0 mg/kg; the most recent publication of FM MRL swith regard to Regulation (EC) to . 396/2005 also reflects this value.

In this Annex III dossier, new data are presented to support the combination product Iprovalicarb & Folpet_WG 63.5 for use in grapes from in the southern and northern European residue regions. With regard to chapter IIIA 8, the only "newer" studies relevant for submission to the FU or member states are the residue analytical data generated with the product presented below in chapter IIIA 8.3. Some basic information operation of residue definitions and MRDs is included in chapter IIIA 8.7 for clarity.

No entirely new uses of provaticarb or folpet are included in this Annex M dossier, and the results presented do not trigger any other new studies that would be reported in this chapter. Further details on the residues of iprovalicarb and folpet in or on treated products, food, or feed are presented in the respective Annex II dossiers (chapter of for both compounds.

IIIA 8.1 Stability

IIIA 8.1.1 Stability of residues during storage of samples

of Desidue

No supplementary studies are required; all information is given in the relevant Annex II dossiers for each of the active substances (including AIR2 for iprovalicarb) and/or Annex III dossiers for the formulations thereof.

IIIA 8.1.2 Stability of residues in sample extracts

The stability of peridues on sample extracts is routinely checked during analytical method development, and documented as part of the method.

IIFA 8.2 Supplementary studies on metabolism in plants or livestock

No supplementary studies are required; all information is given in the relevant Annex II dossiers for each of the active substances (including AIR2 for iprovalicarb) and/or Annex III dossiers for the formulations thereof.

IIIA 8.3.1 Grapes

The application pattern for the use of Iprovalicarb & Folpet WG 65.3 in/on grapes in Europe (nortler and southern residue regions) is described in the table below.

Use patterns (GAPs) for the spray application of Iprovalicarb & Folpet WG 65.3 in/on grapes in Europe Table 8.3.1-1:

Formulation	Region	Application timing	Max. rate of application (kg/ha [prod.]) 43.5 <u>65.3</u>	Max. a.s. rate of application (kg/ha) ippevalicarb folper	Max no. of appls. (days)	
Iprovalicarb & Folpet WG 65.3	EU-N	10-14 d int.	2 0 2 1.5 * 2 1.5 * 2 5	0.135* 0.845*	4 28	•
(9.0% iprovalicarb and 56.3% folpet)	EU-S	10-12 d int		y 0,15 . 0.94 x		,
As tested			<u> </u>		ji k	
SZX 0722 & Folpet 43.5 WP (6.0% iprovalicarb	EU-N	pre-flowering post- Nowering (10-14:d int.)	1.5 (≈1.0) 2.5**0≈1.7*5)	0.15*** 0.90**	28 0°4 28	
and 37.5% folpet)	EU-S	pre-flowering post- bowering (10-ford int)	2.5 (≈1.0) 2.5 (≈1.7) 2.5 (≈1.7)	0.15 0.56 0 0 0.15 0	1 4 28	

EU-N = northern EU residue region EU-S = Nouthern EU residue region

-N = northern EU residue region EU-S = southern EU residue region These rates are expressed by kg/ha per meter voltage ('lear wall' of reafy surface) height". The shaximum absolute amounts to be applied refer to vines with 1.6 m the afy surface", resulting in sost-bloop a.s. rate of 0.216 kg/ha ippovalicarb and 1.35 kg/ha folpet.

These rates are expressed as "kg/ha per noter foliage ('leaf wall' or leafy surface) height "The maximum absolute amounts applied refer to vines with 1.6 m "leafy surface", resulting in post-bloom d.s. rates of 0.24 kg/ha iprovaticarb and 1.5 kg/ha folpet. K) \bigcirc

The current registered use calls for a slightly lower application rate than originally tested and registered in the morther region, with maximum in ovalicarb and folpet applications rates in German grapevines of 16 g/ha and $\tilde{\Psi}$.35 kg/ha, respectively. (This reflects the following "core rates" per hectare and meter foliage height: 135 g/[hao m] ipprvalicarb and 845 g/[ha × m] folpet.) This is a 10% reduction, which is well within the EU acceptance criteria for use pattern comparability. The current uses in both regions also call for a maximum of 4 applications, instead of 5 as originally tested registered. For iprovalicate it has been clearly shown with other, similar use patterns (e.g. with SZX 0722 & Azoxystrobin, cf. AIR2 dossier, point 6.3.1) that additional applications well before harvest do not affect the residue levels in the harvested commodities. As stated previously, for folpet, the currently defended worst-case approved use in this crop in the EU is up to 10 applications of up to 1.6 kg/ha@thus the use in Iprovalicarb & Folpet WG 65.3 is far less critical than the worst-case European use

Thus, the use pattern of SZX 0722 & Folpet 43.5 WP as tested is valid to support the use of Iprovalicarb & Folpet WG 65.3 as currently labelled.

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New studies submitted for Annex I renewal:

Report:	KIIIA 8.3.1/01,	1	998a			
Title:	Determination of re	sidues of SZX 072	22 & Folpet (4	3.5 WP) in/on	grape followin	ig sprav 2
	application in Franc	e and Germany	1	,	© 1 ∧	
Report No. &	RA-2129/97			Å		Ω´ Ď
Document No.:	M-002068-01-1			Ø	, ,	
				1	Ó,	\$\$ ['] , \$
Report.	KIIIA 8 3 1/02	1	Å1800			
Title [.]	Determination of ra	• 1 siduas of SZV 07)) & Falnat (4	2 5 (D) in/on	Grandifalla	
The.	application in France	e Portugal and Sr	$22 \propto roipet (4)$	3.5₩F) III/0II	i grape ionovni	ig spiraly
Report No &	$P \wedge 2120/07$, A	Q [×] ~ °	~~ . ~	w, v
Document No ·	M-002066-01-1	por '	, ~	° Q° ^	₹´, ° [×] ø) (Ŭ
	WI-002000-01-1	~~~	~~ <i>Q</i>	NY O		í "Ç
		Å (ÿ Ď	4	S. A	4
Guidelines (applies	s to both studies):	Directive 91/414	EEC residue	in or on treat	ed products, for	and feed
GLP (applies to bot	h studies):	yes certified ab	oratory); Devia	ations: none		, C
	,					O O
Justification for i	ncluding these sta	dies in 'AIR'	dossier Da	a required to	Stabligh MR	hs and to
	including these set					und to
support uses in gra	ipes in the EU. 👒	<u>ĝ ĝ</u>	$\tilde{\mathcal{S}}$	$\frac{0}{\sqrt{2}}$		
	Ĵ,				ð de	
	ð ð	I Materiak an	d Methods		Ç,	
	N 4	1. Water dis all		de la companya de la		
Northern Euro	pean residue re	Ggion Õ 💍	′` <u>%</u>	/ (k. %	Ŏ ^y	

In northern Europe, 4 total of 5 tracks on grapes were conducted in 1997 (cf. KIIIA 8.3.1/01), using SZX 0722 & Folget 43.5 WP, containing 6.0% iprovalicarb and 37.5% fotpet. The trials were performed in Germany (2) and in northern france (3). The use pattern as defined for northern Europe was based on a set product concentration and water rates of approx. 600 L/ha prior to bloom (1 appl.) and then 1000 L/(ha × m) eaf walf height) post-flowering (4 appl.); thus, vines were treated at a worst-case concentration (0.25% in high-volume sprays) and at water rates applicable to the practices common in the contries in which the trials were performed. In this system, while the post-flowering rate per hectare and meter vine height remains constant, the actual amount of product applied in a given trial can warp based on the height of the vines on the test plot, so that varying absolute amounts of product are directly comparable with one another.

Post-blossom sprays were at expected product rates of 4.0 kg/ha in Germany (1.6 m "leaf wall" height) and 2.0-2.5 kg/ha in France (0.8-1.0 m leaf wall), corresponding to 0.24 and 0.12-0.15 kg iprovalicarb/ha, respectively. Spray intervals were 10-14 days in post-blossom spraying. In all trials, vines were treated a total of crimes (1 pre-2 post-blossom) instead of 5 (1/4), but this deviation from the nominal corst-case use pattern is within the EU's tolerances for residue trials. (Besides, the extra post-blossom spray was at a very early interval, thus having little effect on the final residue levels.) All applications in all trials were at the required rates.

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Southern European residue region

In southern Europe, a total of 5 trials on grapes were conducted in 1997 (cf. KIIIA 8.3.1/02). The *p* trials were conducted in Portugal (1), Spain (2), and southern France (2). SZX 0722 & Folpet 43.5 WP was applied 5 times (1 pre-bloom/4 post-bloom) at rates of 1.5 kg/ha prior to and 2.5 kg/ha subsequent to flowering, equivalent to 0.09 kg/ha (pre-fl.) or 0.15 kg/ha (post 1) iprovalication a.s. and approx. 0.56 kg/ha (pre-fl.) or 0.94 kg/ha (post-fl.) folpet. Spray intervals were generally 0-14 days in post-blossom spraying. Water rates were about 600 L/ha (pre-blosson) and 1000 I blossom sprays). All applications in all studies were at the required rates.

All trials

In all trials in the northern and southern European residue regions, bunches of grapes were sampled at days 0 and 28 (PHI) after the last application. At harvest the, additional samples of destemmed grapes (berries) were taken.

The samples were analyzed for iprovabcarb according to method 00442/19003, with a limit of aquantitation of 0.05 mg/kg and for the same to quantitation of 0.05 mg/kg, and for pret according to method 00086/2024 quantitation of 0.01 mg/kg.

Iprovalicarb

Concurrent recoveries of ipprovalies b were obtained from grapes (berries) fortified at levels between 0.05 mg/kg and 2 mg/kg. The sample material was chosen to represent all relevant sample materials collected in these trials Mean recoveries were alk within acceptable ranges (85-95%, RSDs 5.5-8.0%, n=2-8). Details of recovery data are shown in Table & 1-5.

All trials are summarized below in Table 8.3, 1-1 and Table 8.3.1.3 and in greater detail in the Tier 1 summary forms (cf. Ther I summary of report references KIIA \$3.1/07 and /08).

Northern Empope.

Immediately following the final application, samples of grape bunches yielded iprovalicarb residues ranging from 0.26-1.6 mg/kg median value 7.4 mg/kg). These residues declined to levels of 0.10-1.2 mg/kg (median 0 47 mg/kg) by day 28

Samples of destemmed grapes (Gerries) were also taken in the trials. The residues were slightly lower in day-28 samples of grapes arone than those in bunches (0.07-1.1 mg/kg in destemmed grapes the set of [median 0.38 mg/kg]).

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Southern Europe

Immediately following the final application, samples of grape bunches yielded iprovalicarb residues, ranging from 0.13-1.3 mg/kg (median value 0.33 mg/kg). These residues declined to levels of <0.05-0.76 mg/kg (median 0.17 mg/kg) by day 28.

Samples of grapes themselves (destemmed berries) were also taken in the trials. The residues were slightly lower in day-28 samples of grapes alone than in bunches (<0.05-0.66 mg/kg in grapes alone from [median 0.13 mg/kg]).

Folpet

Recoveries of folpet were obtained from grape samples (bunches) for the adjevels between 0.01 mg/kg and 3.2 mg/kg. The sample material wavehosen to represent all relevant commodities (bunches and grapes themselves) collected in the obtained. Mean recoveries at each for fication level were all within acceptable ranges (94-99%, RSDs 2.0-4.0%, p=2-4). Details of recovery data are shown in Table 8.3.1-5.

All trials are summarised below in Fable 8.3.1-2 and Table 8.3.1-4 and in greater detail in the Tier 1 summary forms (cf. Tier I summary of report references KILA 6.3.1497 and 08)

Northern Europe

Immediately following the final application, samples of grape bunches yielded tolpet residues ranging from 0.51-5.1 mg/kg (median value 4.5 mg/kg). These residues declined to levels of 0.15-3.5 mg/kg (median 2.6 mg/kg) by day 28

Samples of grapes themselves (destemmed berries) were also taken in the trials. The residues were slightly lower in day-28 samples of grapes alone than in bunches (0,11-2.6 mg/kg in grapes alone [median 24 mg/kg]).

Southern Europe

Immediately following the final application, samples of grape bunches yielded folpet residues ranging from 0.84-6.1 mg/kg (median value 1.2 mg/kg). These residues declined to levels of 0.22-2.8 mg/kg (median 0.34 mg/kg) boday 28.

Samples of destemated grapes (betries) were also taken in the trials. The residues were slightly lower in day-28 samples of grapes alove than those in bunches (0.19-2.5 mg/kg in destemmed grapes [median 0.31 mg/kg].

III. Conclusions

Ten residue frials were conducted with SZX 0722 & Folpet 43.5 WP, containing 6.0% iprovalicarb and 37.5% folpet on grapes, five each in the northern and southern European residue regions. The product was applied in accordance with the proposed use patterns (slight deviations in the northern trials were within EU tolerances), and the tests were carried out according to GLP principles. The results of trials presented above demonstrate that:

- residue levels of iprovalicarb in grape bunches decline with time, from values of 0.26-1.6 mg/kg_p^{\circ} (north) or 0.13-1.3 mg/kg (south) on day 0 to 0.10-1.2 mg/kg (north) or <0.05-0.76 mg/kg (south) on day 28. The respective median values were 1.4 and 0.33 mg/kg on day 0 and 0.47 and 0.17 mg/kg on day 28.
- residue values of iprovalicarb in destemmed grapes (berries) on day 28 where slightly lower than those in bunches, with median values of 0.38 and 0.13 mg/kg in the samples from the northern
- all residue values for iprovalicarb on day 28 were well below the EU MRL for provalicarbon grapes (2 mg/kg).
- residue levels of folpet in grape bunches decline with time, from values of 0.51.5.1 mg/kg (north) or 0.84-6.1 mg/kg (south) on day 0 to 0.15-3.5 mg/kg (south) 0.22 2.8 mg/kg (south) on day 28,° The respective median values were 4.5 and 1.2/mg/kg/on day 0, apd 2.6 and 0.34 mg/kg/on day 28.
- all residue values for folgering grapes (destemmed berries) on day 28 gre well below the established European MRL of 5 mg/kg in grapes.
 all residue values for folgering grapes (destemmed berries) on day 28 gre well below the established European MRL of 5 mg/kg in grapes. - residue values of folpet in destemmed grapes (betues) were slightly lower than those in bunches, ranging from 0.11-2.6 mg/kg (north) and 0.19-2,5 mg/kg (south). The median values were 2.4 and

Table 8.3.1-1:	Residues of <i>iprovalicarb</i> in/on grapes following applications of SZX 072	2 & _© °	
	Folpet (43.5 WP) in the field in the <u>northern European</u> residue region		- A

	*	· ,							8	<u> </u>	i'
Study No.				A	plicatio	n	i		Residu	ies j	
Trial No.	a							O	D		
Plot No	Crop Veriety	Country	FL	No	kg/ha	kg/hL	GS	Portion	DAL	iprovalicarb)
GLP Vear	variety	· ·			(a.s.)	(a.s.)	4	analyzed	(days)	(mg/kg)	
$P_{1} = \frac{1}{2120} \frac{1}{07}$	Grana	France	12 5 WD1	6	0.000	0.015	Q.	hunch			Š
70238/2	Sauvignon	F-	45.5 WT	0	0.030-	0.013	O ^s	building	28 Q		, ,
0238-97	Sauvignon				1	Ŵ		herra b	 ≫\$⊮		
GLP: yes				Ø	F '	\sim	, Ø				
1997		EU-N	Ģ		Ô	2 2	S .		ð v		
RA-2129/97	Grape	Germany	43.5 WP	ٌ6 _د	Ø.090-	0.015	80 %	bunch	Q,	A1.6 °	
70701/5	Müller-	D-	A	, C	0.240	- Q	4	Q	28	° 1.2	
0701-97	Thurgau			\searrow	\sim	ð	\mathcal{O}	sberry	ري 28	14	
GLP: yes		FUN		1			٦°	ŗ, ô		Ő	
1997	9	EU-IN								<u></u>	
RA-2129/97	Grape	France	43.5 ₩P ¹	6 ″	0.090-	0.013		bưnch	~~0 © no *		
/0/02/3	Chardonnay	F-	, K [®] (7			V	Ô, C	20	0.47	
GLP: ves		<i>n</i> .		e	"O" A	í Ö ^y		berry	48 %	0.38	
1997			ð,	Ĩ	Ø				Ô		
		₽Ŭ-N_{\	Q A		Å.	S.	Ų″	\$ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
RA-2129/97	Grape 🔬	Germany 🚽	\$3.5 WP	6	0.090	0.015	8Ø	bunch	0	1.4	
70703/1	Portugieser	D-		S	0.249	<i>a</i> .	\bigcirc^{ν}	s,	28	0.92	
0703-97	W.		2~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	~ <u>^</u>			Øerry	28	0.42	
GLP: yes				, li	ý "		×				
1997		EUON C		<u>s</u>			. Ø	1 1	0	1.2	
RA-2129/9/	Grape [®]	France	43.5 WP	×9.	0.090-		(8) 7	bunch	0 29	1.3	
0705-97 ×	Gaillay						1	borry	29	0.38	
GLP: yes	, S	~) ~ (j			berry	29	0.58	
1997	Ĵ,		, ¹ /2		Ŏ.						
		EU-NC		d	\sim	07					
FL = formulation	n V j	´_C``~\$	= grow stag	ge aQ	ast applicat	tion		DAL	T = days a	fter last treatment	
Formulations us	ed in trials:	\mathcal{O}	R'a	Ô,	Ő						
1 = SZX 0722	Folpet (43.5 WP), containing 6.0	% iprovalicate	and 3	7.5% folp	et					
				Ŷ	¥						
L.	d d'	à số		Ő.							
1		<i>°</i>)*							
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U											

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# Table 8.3.1-2:Residues of *folpet* in/on grapes following applications of SZX 0722 & Folpet<br/>(43.5 WP) in the field in the <u>northern European</u> residue region

	(43.5)	wr) in the	neia in th	e <u>no</u>	rthern E	uropean	resi	aue regio	11	(M)	~
Study No.				Α	pplicatio	n			Residu	es 🔊 🎾	k
Trial No. Plot No GLP Year	Crop Variety	Country	FL	No	kg/ha (a.s.)	kg/hL (a.s.)	GS	Portion analyzed	DALT (days)	folpet (mg/kg)	Þ
RA- 2129/97 70238/2 0238-97 GLP: yes 1997	Grape Sauvignon	France F-	43.5 WP ¹	6	0.5625 0.750 0.7	0.09375		bunch berry &			
RA- 2129/97 70701/5 0701-97 GLP: yes 1997	Grape Müller- Thurgau	Germany D- EU-N	43.5 WP1				80	Decry		4.5 3.5 2.60 0	
RA- 2129/97 70702/3 0702-97 GLP: yes 1997	Grape Chardonnay	France F-	¥43.5 WP1		0.5625- 0.9975			bûnch berry , , , , , , , , , , , , , , , , , , ,	28 28 28 28 28 28	2.6 2.6 2.6	
RA- 2129/97 70703/1 0703-97 GLP: yes 1997	Grape Portugiezer	Germany D-			Q.5625 1.5009			buñch S Øserry	0 28 28	5.1 2.8 2.4	
RA- 2129/97 70705/8 0705-97 GLP: yes 1997	Grape Gamay	F-			0.5625- 9.9375	Ø.093750	785	bunch berry	0 29 29	4.1 2.3 1.6	
FL = formulation Formulations	n v od in trials: z Folpet (43.5 W	), contailing 6.	S = growth sta	aggat	last applicat	ion et	-	DAL	Γ = days af	ter last treatment	-
					~						

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# Table 8.3.1-3:Residues of *iprovalicarb* in/on grapes following applications of SZX 0722 &<br/>Folpet (43.5 WP) in the field in the southern European residue region

	Folpe	et (43.5 WP)	in the field	1 IN	the <u>sou</u>	thern El	irop	ean residi	ie regio	n Ø^^?
Study No.				Ар	plicatio	n			Residu	es 🔊
Trial No.								ð		
Plot No	Crop	Country	FL	No	kg/ha	kg/hL	GS	Portion	DALT	iprovalicarb
GLP Vear	Variety	<b>J</b>			(a.s.)	(a.s.)		analyzed	(days)	(mg/kg)
	Grana	Dortugal	42.5 WD1	5	0.000.8	0.015	80	Lunch		
2130/97	Periouita	P_	43.3 WI	5	0.090	0.013	09	Junen	28	$0.76^{1.3}$
70237/4	renquitu				a.		ŝ	berry s		× 0.66 .0
0237-97					Ň	Ć	Ş	C		
GLP: yes		EU-S			<b>F</b> >	A.			. 6	
1997				~	~ •	<u></u>				
RA-	Grape	France	43.5 WP [™]	\$	0,0990-	0,015	-85	bunch		0.13
2130/97	Grenache	F-	.1	s M	( <b>9</b> .150 (			ð, <i>'0</i>		a0.05 °
/0644/2			N.		$\sim$	~	A	berty	28	
GLP: ves		EU-S		8	, ¢, °	~~ (	Ď ^y			
1997		6	8	, d	\$ \$		,	Û E	Ĩ	
RA-	Grape	Spain	43.5 WP ¹	5	0.090-	0.013	80	bunch	\$ <u>0</u> .	∞ 0.33
2130/97	Cabernet	E-		Ç,	0.950	Š.	ç	₽°.(	[©] 28_ ′	♥ 0.17
70645/0	Sauvignon				Ø 1			berry	28	0.13
0645-97			Õ	Å	Ø	4		, Q	ľa –	
GLP: yes		EUSS O	6 A		d.		J.		S.	
1997	C 4		a cuto	- "	Č [×]		0.5.4		7	0.17
KA- 2130/07	Grape	Frances 4	43.3 WP	2	0.090	0.012*	83% 0	bunch	0 28	0.17
70646/9	blanc &		~~~~.	$\sim$	~	, O	ſ.	Berry	20	<0.05 0.05
0646-97				r		o e	Ϋ.		20	0.05
GLP: yes		™ÉU-S	× 40'	×.	× ~			$\sim$		
1997		N B		Ŷ	Ş	0	Ľ			
RA-	Grape	Spain 🔊	43.3 WPC	5	0.090-	<b>Ø</b> !015	084	bunch	0	0.37
2130/97	Macabeo	,É-		Č	0.150	× ~′			28	0.23
/064///			, O ^V	S.	<b>%</b>	A"		berry	28	0.16
GLP: ves	S.	AU-S	\$ \$	r		ð,				
1997		R S (		Ô		e Y				
FL = formulation	n Ô		S = growth star	i sati la	ast applica	tion		DAI	T = davs a	fter last treatment
Formulations	ad in trials			2	Ű,					
1 = SZX 0725 8	& Folpet (43.5-X	P), containing 6.0	% iprovaticart	and	7.5% folp	et				
, KU Č	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A. R	, dia secondaria de la construcción de la construcc	Š						
N°	••	T' N	Ŷ,	Star Star						
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	JA ZA	. J. D	9 °S							
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Ô										

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# Table 8.3.1-4Residues of *folpet* in/on grapes following applications of SZX 0722 & Folpet<br/>(43.5 WP) in the field in the <u>southern European</u> residue region

	(43.5	wP) in the I	iela în the	: <u>sou</u>	thern E	uropean	resic	iue regior	1	a °	~
Study No.				Α	pplicatio	n			Residue	es 🔊 🖌	9 7
Trial No.								~			
Plot No	Crop	Country	ы	No	kg/ha	kg/hL	CS	Portion	DALT	(, folpet)	
GLP	Variety	Country	ГL	INO	(a.s.)	(a.s.)	69	analyzed	(days)	(mĝ/kg)	
Year								A	Ô	<u> </u>	
RA-	Grape	Portugal	$43.5 \text{ WP}^1$	5	0.562	0.09375	89	bunch	N.	× 6.1 ×	
2130/97	Periquita	P-			0.93				Č <b>2</b> 8 ~		Ľ
70237/4					L.	e ⁽	D.A	berry ≪	28 ~	\$\$5 g	)″
0237-97					10°	Ő.	a	· L	·~~	0,0	
GLP: yes		ELL G		00	5×	~		~Q*	ΟÝ Ι	r â	
1997		EU-S			~ ~		Ż	· @ ^	<u>}</u>		
RA-	Grape	France	43.5 WP ¹	\$\$	0,5625-	0.09375	85	Sounch	0~>	°¥.1	
2130/97	Grenache	F-	4		<u>(</u> 0.9375)		Ĉ		28	<i>→</i> 0.22 °	
70644/2			s and a second s			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	А.	berry	28	0.824	
0644-97		EUC		Ň	a,		6 W			A V	
GLP: yes		EU-5	Q it	1	× ×	× ×	Ĉ	, _Q		O	
1997	0	A · A					s)				
KA- 2120/07	Grape	Spain	43.5 ₩P ¹	с С	0.2625-	0,69375	53	tounch		1.2	
2130/97	Cabernet	E-	X U	, s	0,9575	v á	2	ð, _s o	28	0.34	
0645-97	Sauvignon			e	'0' A	Ű ^v	, Ø	berry	<b>3</b> 8	0.25	
GLP: yes				ő	Ø	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			6		
1997		ÊTY-S &	Ŷ s	Ş	S.		Ž,				
RΔ-	Grane §	France	923 5 WP	5 (	0 5625	0.09375	85	hitech	0	0.84	
2130/97	Grenach	F	۲۶.5 WI	Ś	0.9355	0.0043		Junyii	28	0.34	
70646/9	blanc			$\sim$	~			Whorry	20	0.10	
0646-97				1		s o	~	Suchty	20	0.19	
GLP: yes	sõ (	EU-S	× 60'	Ŕ		<u>s</u>	×,	7			
1997	O Â				-S	Õ,	Ø				
RA- 🗞	Grape	Sepain 🔊	43 3 WP	5	0.5625-	Ø.0937S	84	bunch	0	1.6	
2130/97	Macabeo @	£-		Ĉ	0.9375				28	0.61	
70647/7 🏷	$\sim$		S.		<i>w</i> .			berry	28	0.31	
0647-97	, and the second s		N C		ő ,	2		j - j	_		
GLP: yes	Ŵ.	₽Ų-S				D'					
1997	je "Ć	× ~ .		、 Ć	r d						
FL = formulation	n V		S = growth sta	gêgat l	ast applicati	on		DALT	= days afte	er last treatment	
Formulations	ad in trials:			Q`	L.						
1 = SZX 0722	& Folpet (43.5%)	(P), containing 6.0	% iprovaticart	o and	37.5% folpe	t					
×.,	, Ç	AR	, ŝ		,						
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$	Å X	₽° ĉ	Ş							
	a,`		o S	-							
	A .A		* ~								
		Â.	~0								
Å (7)	4 5	0 5	¥								
<u>~</u> ~	A C	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									
Å	Or S										
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Ű											

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<i>Study No</i> ., Trial No.		Portion	95/		Fortification level		Reco (%	overy %) _s	
(Trial SubID) GLP, Year	Сгор	analyzed	metabolite	п	(mg/kg)	min	^y max	mean	RSO
RA-2129/97	Grape	berry*	iprovalicarb	5	0.05	<u>A</u> 76	95	85	\$8.0 Ø
70238/2 (0238-97)	-		-	8 🔊	1.0	85	99 [°]	95~	5.5
70701/5 (0701-97)				4	20	80	a li		<u> </u>
70702/3 (0702-97)				2 ¥	2.0	70	Ű,		
70703/1 (0703-97)			,	e y s	overal	/6	$\overset{\sim}{\bigcirc}$	Q 91	× /.6 «
70705/8 (0705-97)		bunch**	folpet 🔎	- 3	0:Q1	° 96 🍕	100	98♥	2.0
RA-2130/97			- A	4		<u>90</u>	_ ₽ ₽	9 A	, độ
70237/4 (0237-97)			%.	ÔŹ	3.2∜	√ 92	P06	≈~99 `	S.
70644/2 (0644-97)			O [*] _(vov@mall ≫	Ø 90 1	106 £	96	520
70645/0 (0645-97)			A. P	Í Í Ø			O		
70646/9 (0646-97)					ð A	, O ^y	\$		<u>A</u>
70647/7 (0647-97)				¢ .	S O	S a	Ş.		
GLP: yes		8	Ŵ.Ô				Ũ		
1997		A.	o' 'n	×0°	N 8	Ň		. 45	
 <i>berry</i> recoveries also <i>bunch</i> recoveries also 	valid for sam	ple material <i>bi</i>	hich of grapes. erry	у С С		°° °	ې ۶ %	1	

Table 8.3.1-5: Procedural recoveries for *iprovalicarb* and *folpet* in grape matrices

Supplementary livestock feeding studies **IIIA 8.4**

No supplementaty studies are required; all information is given in the retevant Annex II dossiers for each of the acove substances (including AIR2 for proval carb) and/or Annex III dossiers for the formulation thereof

A

IIIA 8.4.1

ctiv Anne II dessiers, chapter 6. All relevant data are presented in the respe A S

.actating fuminants (goat or cow) **IIIA 8.4.2**

the respective Annex II dossiers, chapter 6. All relevant data are presented

IIIA 8.4.3

All relevant data are presented in the respective Annex II dossiers, chapter 6.

Q,

IIIA 8.4.4 lature of residue in fish

Not required by Directive 91 ₩¥/EEC.

Pigs

Poult

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Suppl. studies on the effects of industrial processing and/or household **IIIA 8.5** preparation on residue levels

No supplementary studies are required; all information is given in the relevant Annex II dossiers for each of the active substances (including AIR2 for iprovalicarb) and/or Annex III dossiers for the formulations thereof.

chapter

Effects of industrial processing and/or household preparation **IIIA 8.5.1** (representative processing situations) on the nature of residue

All relevant data are presented in the respective Annex II dossiers, chapter 6.

IIIA 8.5.2 Distribution of the residue in peel/pulp

Not relevant for wine grapes.

Balance studies on a core set of representative pro **IIIA 8.5.3**

All relevant data are presented in the respective Annex II dossters,

Follow-up studies potable waters; ifrigated crops **IIIA 8.5.4**

Follow-up studies to determine conceptivation or difution a a are presented in the respective Anney II dession the terms **IIIA 8.5.4.1**

All relevant data are presented in the respective

IIIA 8.5.4.2 Potable waters

Not required by Directive 91414/EKC

IIIA 8.5.4.3 Irrigated crops

Not required by Directive 9104 4/E®C

Supplementary studies for residues in representative succeeding crops IIIA 8.6 No supplementary Studies are required; all information is given in the relevant Annex II dossiers for each of the active substand provaliearb) and/or Annex III dossiers for the formulations thereof

Proposed residue definition and maximum residue levels IIIA 8 Q,

Proposed residue definition **IIIA 8.7.1**

As presented of the Annex & dossiers for each of the active substances, the proposed residue definitions of plants and mimals for each of the active substances are the unchanged parent compounds, iprovalicarb and Olpet.

IIIA 8.7.2 Proposed maximum residue levels (MRLs) and justification of the acceptability of the levels proposed, including details of statistical analyses used

Iprovalicarb:

An MRL of 2.0 mg/kg for iprovalicarb (SZX 0722) in grapes was proposed in the original Annex K dossier, chapter 6. This MRL has been published (first in Commission Directives 2003/66/EC and 2004/115/EC, later in connection with Regulation [EC] no 396/2005), and the value is confirmed in the AIR2 dossier.

The trials presented in this Annex III dossier yielded esidue values below this MBL – and, as presented in the AIR2 dossier, play a role in "driving" it – thus supporting the the of provalicarb & Folpet 43.5 WP (and, with it, the new formulation Iprovalicarbox Folpet W6.65.3) as described $\sqrt{2}$ above.

Folpet:

A grape MRL of 5.0 mg/kg for folper was proposed in the Annexell dossier, chapter 6 the most recent publication of EU MRLs with regard to Regulation (EC) no. 396/2005 also reflects this value. The trials presented in this Annex II clossier yielded residue values below the MRL tevel, thus supporting the use of Iprovalicarb & Folpet 43.5 WP (and, with it, the new formulation Iprovalicarb & Folpet WG 65.3) as described above.

IIIA 8.8 Proposed pre-barvest intervals, re-entry or withholding periods

IIIA 8.8.1 Pre-harvest interval (in days) for each relevant crop

Grapevine:

A minimum PHI of 28 days

IIIA 8.8.2 Repentry period (in days) for livestock, to areas to be grazed

Iprovalicarb & Folpet $\sqrt[3]{G}$ 655 is not intended for use in preas where livestock animals may be grazed. A regentry period thes not need to be proposed,

IIIA 8.83 Re-entry period for man to crops, buildings or spaces treated

A comparison of the estimated exposure with the NOAELs shows sufficient margins of exposure/safety for all active substances. Thus, no risk is to be seen for workers performing activities like leaf pulling in vineyards reated with Ipcovalicarb & Folpet WG 65.3. Therefore, a specific reentry period of not needed

IIIA 8.8.4 Withholding period (in days) for animal feedingstuffs

Not relevant ho use as a feeding stuff before harvest.

IIIA 8.8.5 Waiting period before sowing or planting crop to be protected

Not relevant.

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IIIA 8.8.6 Waiting period between application and handling treated products

Not relevant, because crops are not handled before harvest.

Waiting period (in days) before sowing or planting succeeding crops **IIIA 8.8.7**

Not needed, no phytotoxicity and no residues in succeeding crops.

IIIA 8.9 Other/special studies

None

means Estimation of exposure through **IIIA 8.10** diet and oth

TMDI calculations **IIIA 8.10.1**

Iprovalicarb:

tablished of the same fit The MRLs as stablished As stated above, the results for Iproval Carb & Volpet WG 653 previously and confirmed in the AIRO dossier. All information relevant to dietary risk assessment is given in the Annex II dossiers (original and the new AIR2 dossier The use of iprovalicarb in grapes does not represent a risk to consomer

Folpet:

As stated previously, the GAR supported for proval carb & Folget WC 65.3 is much less critical than currently defends in this crop in the FU, where 10 applications of up to the critical GAP 1.6 kg/ha have been approved, with all other parameters such as interval between applications or preharvest interval being dentical or very similar. Therefore, Bayer CropScience AG considers it wherever appropriate. A folpet-specific risk justified to refer to folpet data owned by assessment is not considered necessary to defend the Annex listing of iprovalicarb...

NEDI calculations **IIIA 8.10.2**

Please refer to the respective

NESTI calculations IIIA 8.10.3

Iprovaligarb:

No Acute Reference Dose ARf Phas been sector iprovalicarb. A calculation of the National Estimated Short-Term Intake (NESTI/JESTI) is therefore not required.

Folpet:

As stated previously the GAP supported for Iprovalicarb & Folpet WG 65.3 is much less critical than the critical CAP corrently defends in this crop in the EU, where 10 applications of up to 1.6 kg/ha have been approved, with all other parameters such as interval between applications or preharves interval being identical or very similar. Therefore, Bayer CropScience AG considers it justified to refer to folpet data owned by wherever appropriate. A folpet-specific risk assessment is not considered necessary to defend the Annex I listing of iprovalicarb...



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IIIA 8.11 Summary and evaluation of residue behaviour

This Annex III dossier is the "representative Annex III" for the Annex I Renewal (AIR2) submission of iprovalicarb. The formulation supported is Iprovalicarb & Folpet WG 65.3, containing 9% iprovalicarb and 56.3% folpet. As originally tested, the product was a 43.5 WP containing 6% iprovalicarb and 37.5% folpet. However, the use of each of the two products is such that the same amounts of the two active substances are applied, using the correspondingly lower amounts of the WG 65.3 formulation. The slight changes in the use patterns since the original 43.5 WP submission are of no consequence when evaluating the residue behaviour; the original trials support the current use.

To evaluate the residue behaviour of SZX 0722 & Polpet 43.5 WP in grapes, data from 10 trials on grapes (northern and southern European residue regions) are presented. The objective of the trials was to provide a data "bridge" to the individual national and EU submissions for each of the active substances, thus supporting the use of the new co-formulation. The product was applied in accordance with GLP and in accordance with — or it cases of slight deviations within acceptable tolerances of — intended use patterns.

The LOQs of the analytical methods employed in these studies were 005 mg/kg for provaticarb and 0.01 mg/kg for folpet, as described in chapter 53 of this AIL cossies.

Iprovalicarb

In grape bunches, residue levels of <0.03-0.76 mg/kg (median 0.17 mg/kg) and 0.10-1.2 mg/kg (median 0.47 mg/kg) were determined in day 28 samples in the southern and northern European residue regions, respectively. Residue values on day 28 in the grapes alone (destemmed) were slightly lower than those in bunches, with median values of 0.73 and 0.38 mg/kg in southern and northern trials, respectively. Albresidue values were well below the EU MRL of 2.0 mg/kg.

None of the data gamered from the uses and/or trials presented in this Annex III dossier would trigger additional metabolism, animal feeding rotational crop or additional processing studies. Basic data on all aspects mentioned as well as processing data and data on the potential dietary exposure to iprovalicarb were presented in the original Annex II dossier as well as the AIR2 dossier for the compound.

<u>Folpet</u>

In destemmed grapes (truit alone), restrue levels of 0.19-2.5 mg/kg (median 0.31 mg/kg) and 0.11-2.6 mg/kg (median 2.4 mg/kg) were determined in day-28 samples in the southern and northern European residue regions, respectively. All restrue levels were below the established EU MRLs (5 mg/kg). Residue values in the grapes bunches were slightly higher than those in the grapes alone, with median residue fevels of 0.34 and 2.6 mg/kg in southern and northern trials, respectively. Basic data on all aspects mentioned as well as processing data and data on the potential dietary