ANNEX B

Ziram

B.7 Residue data

B.7.0 Storage stability of residue samples.

Frozen storage stability of ziram residues in apples samples using a speciated analytical method (Reibach P, 2001)

This study was performed in order to provide more data on the stability of ziram residues on fruits when frozen. A previous study had indicated that residues were not stable in ground fruits samples.

Guidelines :
- US EPA OPPTS Section 860.1380

GLP :
Yes

Materials and methods :
Control samples of apples from an apple residue study were sectioned into approximately 5 g sections and frozen. The frozen sections were fortified on the surface with ziram at a nominal concentration of 2 ppm and the fortified samples were stored frozen (at -10°C to -20°C) for up to 5 months prior to analysis.
Apple samples were analysed for ziram residues at 0 day, 2 weeks, 1 month, 2 months, 3 months and 5 months storage. The method of analysis was specific for ziram.

Findings:
The results of the study are given in the table below:

% recovery ziram after (standard deviation)					
0	2 weeks	1 months	2 months	3 months	5 months
90.7 (5.74)	85.36 (1.72)	87.40 (2.86)	86.38 (7.33)	87.91 (4.20)	82.30 (2.25)

Conclusions:
Results showed that residues of ziram are stable in frozen storage in apples for approximately 5 months under the conditions of this study. Extrapolation suggests that ziram will be stable for even longer storage intervals. It can be concluded that storage stability is not a concern for actual field residue samples stored under similar conditions.

B.7.1 Metabolism, distribution and expression of residues in plants (Annex IIA 6.1)

Metabolism of [14C]Ziram in grapes (Robinson et al., 2001)

This study was provided in order to give further information on the intermediary degradation products during metabolism of ziram in plants after foliar treatment.

Guidelines :
EPA Guidelines 171-4 (a)

GLP :
Yes

Material and Methods :
^{14}C-ziram labelled on the thiocarbonyl moiety was applied 4 times to grapes at a rate of about 8 kg a.s./ha. Mature grapes were harvested 7 days after the last application and then frozen. The surface residues were removed by rinsing frozen grapes with a chilled 0.01 M Na3PO4/acetonitrile solvent mixture (80:20 v/v). Rinsed grapes were afterwards extracted with the same buffer/acetonitrile solvent. Rinsate and extractable residues were assayed by liquid scintillation counting and were characterized by GC, HPLC and TLC. Isolated fractions were identified by LC/MS and LC/MS/MS.
Samples of grapes were also analysed for total volatiles and CS_2 by 6N HCl hydrolysis in presence of $SnCl_2$.

Findings :
Total radioactive residues (TRR) on grapes at harvest were 6.31 mg/kg ^{14}C-ziram equivalent.

The distribution of the radioactivity between the different fractions is summarized in the table herebelow.

Table B.7.1-1 : Results of the metabolism study in grapes.

Fraction	Metabolite	
	mg/kg	%TRR
Surface residues	**5.17**	**81.7**
Ziram	1.40	22.2
Dimethyldithiocarbamic acid	2.38	37.8
Others unidentified*	1.37*	21.7
Buffer extract	**0.90**	**14.3**
Sugars	0.65	10.5
others unidentified	0.24	3.8
Post extraction residues	**0.26**	**4.1**
* at least 5 radioactive peaks, each corresponding to less than 6.7 % of TRR		

The major part of the TRR could be recovered in the surface rinsates. Approximately 73% of these surface residues (60% TRR) could be accounted for as the parent compound or N,N-dimethyldithiocarbamic acid. The remaining of the radioactivity in the rinsate consisted of poorly resolved material.
Approximately 14 additional % of the TRR could be extracted from the rinsed grapes. The ^{14}C residues in the grapes extracts were found to be mainly [^{14}C]sugars resulting from uptake of ^{14}C-labeled precursors (e.g., carbon disulfide [CS_2] or carbon dioxide) into the endogenous metabolic cycles of the plant.
Bound residues in the grape solids contributed to 1-4% of TRR.
Total volatile ^{14}C residues generated by HCl hydrolysis in presence of $SnCl_2$ accounted for 80% of TRR, of which about 93% was [^{14}C]CS_2 and small amounts of [^{14}C]CO_2. Non volatile residues in the hydrolysate were 13% of TRR and 7% TRR remained in the solid residue.

Conclusions :
Treatment of grapes with ziram results primarily in surface residues of ziram and N,N-dimethyldithiocarbamic acid. The ultimate degradation products enter into the composition of natural plant products. The N,N-dimethyldithiocarbamic acid is common to thiram and ziram. Therefore the conclusions reached about the thiram metabolism apply also to ziram.

B.7.3 Definition of the residue

Plant products.

Based on the new metabolism study submitted, the provisional residue definition proposed in the monograph (ziram alone) is confirmed.

Taking into account the similarity of the metabolic pathways of thiram and ziram, one must consider that conclusions reached during the review of thiram about the metabolite 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid also applies for ziram. This metabolite was found after seed treatment, but may also be formed on commodities after foliar treatment when these commodities are heated. It has been proved that this metabolite is present in the rat metabolism. Its toxicology is therefore covered by the toxicological dossier of ziram. In term of protection of the safety of the consumer it is not necessary to include this metabolite in the residue definition.
However, no valid information is available at this stage about its potential or practical level in commodities and in particular in processed food. Potential trade problems arising from this metabolite cannot be excluded and it belongs to Member States to decide at their level whether further information is needed or not.

B.7.5 Identification of critical GAPs

Due to problems identified in the first evaluation of the dossier (deficiencies in the data package, concerns about the safety of the consumer) new intended GAPS have been defined for the following crops :

Crop disease	**Country**	**Maximum rate per application (kg a.s./ha)**	**Maximum rate per season (kg/a.s./ha)**	**Spray concentration (g a.s./hl)**	**Maximum number of applications per season**	**Spray interval in days**	**PHI in days**
Apple Scab *(Venturia inaequalis)*	All Europe	2,28	9,12	228	4 (treatments against gloeosporium included)	7-14 days First application on young leaves	42
Apple *Gloeosporium*	All Europe	1,18	(rate already taken into account in the Venturia applications)	118	4	7-14 days First application half June	42
Pear Scab *(Venturia pirina)* *Stemphylium*	All Europe	2,28	9,12	228	4 (treatments against gloeosporium included)	7-14 days First application on young leaves	42
Pear *Gloeosporium*	All Europe	1,18	(rate already taken into account in the Venturia applications)	118	4	7-14 days First application half June	42
Medlar Scab *(Venturia inaequalis)*	All Europe	2,28	6,84	228	3	7-14 days First application just before blooming	42
Cherry *Stigmina carpophila,* *Monilinia spp.* *Venturia cerasi*	All Europe	2,28	6,84	228	3	7-14 days First application before/ during flowering	21
Plum Rust *(Tranzschellia pruni-spinosa)* *Stigmina carpophila* *Monilia spp.*	All Europe	2,28	6,84	228	3	7-14 days First application before/ during flowering	21
Almond *Taphrina deformans*	South-Europe	2,28	6,84	228	3	7-14 days - Winter/ Spring treatment; First application on very young foliage	150
Almond	South-					7-14 days	

Fusicoccum amygdali	Europe	2,28	6,84	228	3	Autumn/ Winter treatment after harvest	150
Almond *Monilinia spp. Coryneum*	South-Europe	2,28	6,84	228	3	7-14 days First application when disease occurs	150
Apricot *Monilia*	South-Europe	2,28	6,84	228	3	7-14 days - Winter/ Spring treatment; First application on very young foliage	42
Apricot *Coryneum beijerinckii*	South-Europe	2,28	4,56	228	2	Autumn/ Winter treatment after harvest	
Peach *Taphrina deformans Coryneum beijerinckii (Stigmina carpophila) Monilinia spp.*	All Europe	2,28	6,84	228	3	7-14 days - Winter/ Spring treatment; First application on young foliage NL: first application before flowering	42
Peach *Coryneum beijerinckii (Stigmina carpophila) Fusicoccum amygdali*	All Europe	2,28	4,56	228	2	Autumn/ Winter treatment after harvest	
Ornamentals Outdoor Rust *(Puccinia spp, Uromyces dianthii)* Black spot *(Doplocarpon rosae)*	All Europe	2,28		228	as needed	7-14 days - First application when disease occurs	

B.7.6 Residues resulting from supervised trials (Annex IIA 6.3; Annex IIIA 8.1)

B.7.6.0 Preliminary comments.

The new supervised residue trials submitted to support the new GAPs were carried out according to the unspecific CS_2 method. Metabolites with the intact CS_2 moeity are therefore dosed together with ziram. In order

to determine the ratio between the total CS_2 generators and ziram alone, samples gained from residue trials carried out in 2001 were analysed with both the CS_2 method and the specific LC/MS/MS method ("Analysis of selected fruit samples from Europe using LC/MS/MS – Method for Ziram residues" (Li F., 2001)).

The table here below compares the residues measured with the 2 methods

Commodity	Trial code	mg ziram/kg at last PHI		ratio CS2 method /specific method
		CS2 method	LC/MS/MS method	
Apple	F01N005R	0.96	0.57	1.68
Apple	S01N005R	3.57	1.60	2.23
Apricot	S01N007R	1.11	2.07	0.53
Cherry	G01N013R	0.63	0.29	2.20
Cherry	S01N008R	1.18	1.06	1.11
Peach	I01N003R	0.48	0.45	1.08
Peach	S01N004R	1.68	1.29	1.30
Pear	F01N003R	0.64	0.59	1.08
Pear	G01N008R	0.42	0.39	1.09
Plum	G01N010R	0.70	0.41	1.72
Plum	S01N009R	1.75	1.04	1.68
Plum	I01N004R	0.40	0.74	0.54
Average value of the ratio				1.35

The average value of 1.35 is likely to give a faithful estimation of the ratio between the 2 analytical method. It indicates that most of the CS2 generators consists in ziram itself. For this reason the results of residue trials given by the total CS2 method will not be corrected with this ratio to be expressed as ziram.

B.7.6.1 Residues resulting from supervised trials – Almonds

The new intended GAP results more or less in a no-residue situation. Since the PHI is very long (5 months) and since in almonds only the intern part is eaten and the product is not translocated into the fruit, residues are not expected to be found in the edible portion.

The MRL proposal is 0.1* mg/kg (confirmatory trials may be asked at member state level).

B.7.6.2 Residues resulting from supervised trials – Pome fruits

Since both the ADI and the ARfD were exceeded when ziram was applied according to the recommended use pattern, the notifier has proposed a new GAP in pome fruits based on a new PHI (42 days). New supervised residue trials have been submitted to support this proposal:

Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Southern France, 2000 (Balluff M. March 22, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in France, 2001 (Pollmann B. November 26, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in France, 2001 (Pollmann B. November 26, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Northern Germany, 2000 (Balluff M. March 22, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Southern Germany, 2000 (Balluff M. May 21, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Germany, 2001 (Pollmann B. November 22, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Germany, 2001 (Pollmann B. November 22, 2001b).

Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Italy, 2001 (Pollmann B. November 21, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Spain, 2000 (Balluff M. May 21, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apples at one site in Spain, 2001 (Pollmann B. November 21, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Southern France, 2000 (Balluff M. March 22, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in France, 2001 (Pollmann B. November 26, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in France, 2001 (Pollmann B. November 23, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Northern Germany, 2000 (Balluff M. March 21, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Southern Germany, 2000 (Balluff M. March 21, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Germany, 2001 (Pollmann B. November 22, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Germany, 2001 (Pollmann B. November 22, 2001d).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Italy, 2001 (Pollmann B. November 21, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Spain, 2000 (Balluff M. March 27, 2001a).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in pears at one site in Spain, 2001 (Pollmann B. November 21, 2001d).

These trials have been carried out in France, Germany, Italy and Spain. All the analysis were carried out after transformation of ziram into carbon disulfide. The results are expressed as ziram.
The results for apples and pears are combined for statistical analysis for the North and the South of Europe respectively.

Apples North : 0.88 – 0.50 – 0.30 – 0.32 mg/kg
Pears North : 0.50 – 0.21 – 0.23 – 0.42 mg/kg
STMR apples and pears combined : 0.37 mg/kg
R(max) : 1.11 mg/kg
R(ber) : 1.00 mg/kg

Apples South : 0.74 – 0.69 – 0.96 – 0.22 – 3.79 – 3.57 mg/kg
Pears South : 0.97 – 1.34 – 0.64 – 0.78 – 2.64 – 1.33 mg/kg
STMR apples and pears combined : 0.97 mg/kg
R(max) : 4.73 mg/kg
R(ber) : 4.63 mg/kg

MRL proposal: 5 mg/kg

B.7.6.3 Residues resulting from supervised trials – Peaches and apricots

Since both the ADI and the ARfD were exceeded when thiram was applied according to the recommended use pattern, the notifier has proposed a new GAP for apricot and peaches based on a new PHI (42 days). New supervised residue trials have been submitted to support this proposal:

Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apricots at one site in France, 2001 (Pollmann B. November 23, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apricots at one site in Italy, 2000 (Balluff M. March 27, 2001b).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apricots at one site in Spain, 2000 (Balluff M. March 27, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in apricots at one site in Spain, 2001 (Pollmann B. November 21, 2001e).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in France, 2001 (Pollmann B. November 26, 2001d).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Greece, 2000 (Balluff M. March 27, 2001d).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Italy, 2001 (Pollmann B. November 21, 2001f).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Spain, 2000 (Balluff M. March 27, 2001e).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Spain, 2000 (Balluff M. March 27, 2001f).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Spain, 2001 (Pollmann B. November 22, 2001e).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in peaches at one site in Spain, 2001 (Pollmann B. November 21, 2001g).

These trials have been carried out in France, Greece, Italy and Spain. All the analysis were carried out after transformation of ziram into carbon disulfide. The results are expressed as ziram.
The results for apricots and peaches are combined for statistical analysis.

Apricots : 4.93 – 0.92 – 2.75 – 1.11 mg/kg
Peaches : 1.68 – 0.83 – 0.48 – 1.03 – 1.12 – 1.13mg/kg
STMR apricots and peaches combined : 1.12 mg/kg
R(max) : 5.47 mg/kg
R(ber) : 3.90 mg/kg

MRL proposal : 5 mg/kg

B.7.6.4 Residues resulting from supervised trials – Cherries

New trials have been carried out supporting a GAP based on a PHI of 21 days.

Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in sour cherries at one site in Northern Germany, 2000 (Balluff M. March 21, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in sour cherries at one site in Southern Germany, 2000 (Balluff M. March 21, 2001d).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in cherries at one site in France, 2001 (Pollmann B. November 23, 2001c).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in cherries at one site in Germany, 2001 (Pollmann B. November 23, 2001d).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in cherries at one site in Germany, 2001 (Pollmann B. November 22, 2001f).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in cherries at one site in Spain, 2001 (Pollmann B. November 21, 2001h).

The trials have been carried out in Germany, France and Spain. All the analysis were carried out after transformation of ziram into carbon disulfide. The results are expressed as ziram.

Cherries North : 0.94 – 0.78 – 0.63 – 3.25 mg/kg

Belgium
STMR : 0.86 mg/kg
Cherries South : *0.30 – 0.35* – 0.35 – 1.18 mg/kg
STMR : 0.35 mg/kg

Note : in italics results of trials in accordance with the supported GAP and already reported in the monograph (p 198).

MRL proposal : 5 mg/kg

B.7.6.5 Residues resulting from supervised trials – Plums

Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in France, 2001 (Pollmann B. November 23, 2001e).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in Northern Germany, 2000 (Balluff M. March 21, 2001e).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in Southern Germany, 2000 (Balluff M. November 22, 2000).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in Germany, 2001 (Pollmann B. November 23, 2001f).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in Italy, 2001 (Pollmann B. November 21, 2001i).
Determination of residues of ziram after application of ziram 76 WG (containing 76% ziram) in plums at one site in Spain, 2001 (Pollmann B. November 22, 2001g).

The trials have been carried out in Germany, France Italy and Spain. All the analysis were carried out after transformation of ziram into carbon disulfide. The results are expressed as ziram.

Plums North : 0.47 – 0.31 – 0.20 – 0.70 mg/kg
STMR : 0.39 mg/kg
Plums South : *0.40 – 0.20* – 0.40 – 1.75 (1.25 in control) mg/kg
STMR : 0.40 mg/kg

Note : in italics results of trials in accordance with the supported GAP and already reported in the monograph (p 202).

MRL proposal : 2 mg/kg

B.7.7 Effects of industrial processing and/or household preparation on the residue (Annex IIA 6.5; Annex IIIA 8.4)

Determination of residues of ziram after application of Ziram 76WG (containing 76% ziram) in apple at one site in Southern Germany, 2000 – Final report of the processing part (Polmann B. May 08, 2001)
GLP :
yes
Guidelines :
EU (1997), IVA (1992)
Material and Methods :
Apples samples collected from one of the previously reported residue trials (Balluff M. May 21, 2001a) were used for a processing study at laboratory scale. The processes were comparable to the processes used in industrial production.

One set of apples was used for production of juice and another one for the production of sauce. The design of the study allowed mass balances to be made. The residues in the different fractions after processing were analyzed with the CS_2 method.

No attempt was made to identify the nature of breakdown products that do not generate CS_2.

For juice production, the apples were washed, crushed and pressed to give wet pomace and raw apple juice. The wet pomace was dried to obtain dry pomace. The raw apple juice was clarified with a separator to give a cloudy apple juice. This fraction was divided in 2 parts. A part was put in bottles and pasteurized to obtain pasteurized cloudy juice. The rest of the cloudy apple juice was enzymed and gelatine and silica sol added as fining. After filtration the juice was collected in bottles and pasteurized to give pasteurized clear apple juice.

For apple sauce production, the apples were washed. The cores were removed and the apples were peeled by hand and cut in small pieces. The apples were heated and crushed with a mixer to give apple sauce. The sauce was then placed in preserving bottles and pasteurized.

Findings and conclusions :
The washing of apples has a limited effect on the residue level. CS_2 residues decrease largely when apples are pressed or crushed. The level of CS_2 residues is below the LOQ (0.1 mg ziram/kg) in the final processed products (juice and sauce). In dry pomace the residues were about twice higher than in the fresh apples.
The protocol of the study did not allow the identification of breakdown products and in particular the processed fractions were not analysed for the metabolite 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid.

Processing factors

Crop/processed crop	Number of studies	Transfer factor	% Transference *
Apple/juice	1 + 1 (3 replicates)	<0.1	
Apple/sauce	1 (3 replicates)	<0.1	
Apple/dry pomace (<10% moisture)	1 + 1 (3 replicates)	2	
Note: these transfer factor are based on studies where residues were analyzed as total CS2			

* Calculated on the basis of distribution in the different portions, parts or products as determined through balance studies

B.7.11 Estimates of the potential and actual exposure through diet and other means (Annex IIA 6.9; Annex IIIA 8.8)

The estimates of the exposure of the consumer presented hereafter have been made on the basis of the current intended uses.

B.7.11.1 Long term risk for consumers

The ADI of ziram is 0.006 mg/kg bw/d.
The chronic intake calculations (TMDI and NEDI) detailed here after have been carried out according to the document 'Guidelines for predicting dietary intake of pesticide residues (WHO/FSF/FOS/97.7).

1) FAO/WHO cultural diet for the European (60 kg bw)

TMDI calculations

Commodity	FAO diet (kg/d/person)	proposed MRL (mg ziram/kg)	TMDI (mg ziram/person/d)	% ADI
almonds	0.0018	0.1	0.00018	0
apples	0.040	5	0.2	56

pears	0.0113	5	0.0565	16
peaches	0.0125	5	0.0625	17
apricots	0.0035	5	0.0175	5
cherries	0.003	5	0.015	4
plums	0.0043	2	0.0086	2
total TMDI				100

2) German diet for a 4 to 6 years old girl (13.5 kg bw)

TMDI calculations

Commodity	**FAO diet (kg/d/person)**	**proposed MRL (mg ziram/kg)**	**TMDI (mg ziram/person/d)**	**% ADI**
almonds	0.0015	0.1	0.00015	0
apples	0.042	5	0.21	259
pears	0.0064	5	0.032	40
peaches	0.0079	5	0.0395	49
apricots	0.0045	5	0.0225	28
cherries	0.005	5	0.025	31
plums	0.0017	2	0.0034	4
total TMDI				411

NEDI calculation

For this calculation :
- STMRs are used instead of MRLs;
- The residue level in processed commodities is considered to be at the LOD, based on the results of the processing study on apples reported here above.

Commodity	**FAO diet (kg/d/person)**	**STMR (mg/kg ziram)**	**NEDI (mg ziram/person/d)**	**% ADI**
almonds	0.0015	0.1	0.00015	0
apples, raw	0.0105	0.97	0.0102	13
apples, processed	0.0315	0.1	0.003015	4
pears, raw	0.0025	0.97	0.002425	3
apples, processed	0.0039	0.1	0.00039	0.5
peaches, raw	0.0026	1.12	0.00291	4
peaches, processed	0.0053	0.1	0.00053	1
apricots, raw	0.003	1.12	0.00336	4
apricots, processed	0.0015	0.1	0.00015	0
cherries, raw	0.002	0.86	0.00172	2
cherries, processed	0.003	0.1	0.0003	0
plums	0.0017	0.40	0.0034	4
total TMDI				36

3) UK 97.5th percentile diets for children (30 kg bw) and infants (7.5 kg bw)

TMDI calculation

Commodity	**British diet**	**British diet**	**proposed**	**Intake children**	**Intake infant**

	children – 97.5th percentile (kg/d/person)	infant – 97.5th percentile (kg/d/person)	MRL (mg/kg ziram)	mg/kg bw/d	% ADI	mg/kg bw/d	% ADI
almonds	L/C	L/C	0.1	L/C	0	L/C	0
apples	0.1328	0.0752	5	0.022133	368	0.050133	836
pears	0.0634	0.0256	5	0.010567	176	0.017067	284
apricots	0.0235	0.0137	5	0.003917	65	0.009133	152
peaches	0.0478	0.0194	5	0.007967	133	0.012933	216
cherries	L/C	0.0125	5	L/C	0	0.008333	139
plums	0.0409	L/C	2	0.002727	45	L/C	0
Total TMDI				0.03307	551	0.06873	1146

NEDI calculations

For this calculation, STMRs have been used instead of MRLs. No processing factor can be taken into account as the British consumption data are not given in sufficient details as far as the preparation type is concerned.

Commodity	British diet children – 97.5th percentile (kg/d/person)	British diet infant – 97.5th percentile (kg/d/person)	STMR (mg/kg ziram)	Intake children		Intake infant	
				mg/kg bw/d	% ADI	mg/kg bw/d	% ADI
almonds	L/C	L/C	0.1	L/C	0	L/C	0
apples	0.1328	0.0752	0.97	0.004294	72	0.009726	162
pears	0.0634	0.0256	0.97	0.00205	34	0.003311	55
apricots	0.0235	0.0137	1.12	0.000877	15	0.002046	34
peaches	0.0478	0.0194	1.12	0.001785	30	0.002897	48
cherries	L/C	0.0125	0.86	L/C	0	0.001433	24
plums	0.0409	L/C	0.40	0.000545	9	L/C	0
Total TMDI				0.006426	107	0.013359	223

Conclusion :

The ADI of ziram is exceeded by a factor 2 for extreme consumers in the population of infants according to the calculations made here above. However these calculations don't take into consideration processing factors (which normally play a major role in case of 6-12 months old infants) and therefore overestimate the real exposure.

B.7.11.2 Short term risk to consumers

The ARfD of ziram has been established at 0.04 mg/kg.
The acute intake calculations summarized hereafter have been made according to the WHO methodology (Doc WHO/FSF/FOS/97.5 – but using MRL proposals rather than the highest residue level in composite samples and also a variability factor of 7 for medium crops) and with portion size data at 97.5th percentile for UK toddlers (14.5 kg bw) and adults (70.1 kg bw) (doc 'New UK policy on the estimation of acute dietary intakes of pesticide residues – 13 january 1998' as amended in 1999 for intake figures)

Commodity	**apples**	**pears**	**apricot**	**peaches**	**cherry**	**plums**
Median weight of the commodity unit (kg)	0,112	0,15	0,039	0,11	-	0,055

Residue level (proposed MRL) (mg/kg)	5	5	5	5	5	2
Variability factor	7	7	7	7	-	7
Consumption by toddlers (97,5th percentile)	0,199	0,279	0,126	0,144	0,040	0,097
Consumption by adults (97,5th percentile)	0,308	0,274	0,137	0,228	0,247	0,172
STMR (mg ziram /kg)	0,97	0,97	1,12	1,12	0,86	0,4
NESTI UK toddlers (mg/kg bw)	0,2762	0,3707	0,1009	0,2681	0,0024	0,0543
NESTI UK toddlers (% ARfD)	**690%**	**927%**	**252%**	**670%**	**6%**	**136%**
NESTI UK adults (mg/kg bw)	0,0586	0,0766	0,0210	0,0568	0,0030	0,0117
NESTI UK adults (% ARfD)	**147%**	**192%**	**53%**	**142%**	**8%**	**29%**

We have reviewed the data according to the recommendations of the doc 'New UK policy on the estimation of acute dietary intakes of pesticide residues – 13 january 1998' as amended in 1999 for intake figures. Only the first entire commodity has the highest level of residue (MRL), the rest of the portion contains residues estimated to be at the level the STMR (what decreases slightly the figures).

Conclusion :
The acute exposure to residues of ziram arising from the intended uses in apples, pears, peaches, apricots and plums exceed the ARfD. Only uses on cherries are acceptable as far as the acute risk is concerned.

B.7.13 Proposed MRLs and justification and for the acceptability of those residues (Annex IIA 6.7; Annex IIIA 8.6)

Taking into account the risk assessment for the consumer, only a MRL of 5 mg/kg on cherries and an MRL of 0.1 mg/kg on almonds can be proposed.

ANNEX B

Ziram

Appendix : Residue data from supervised trials

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location Including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg)	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ F1-FPAP F00W004R	Apples	1) 1979	A) 1.762	928	0.19	19JUL00	78	fruits	4.04	0	-
F-11400 Les Chetinieres South	Golden	2) 10APR00 – 17APR00 3) 20SEP00	B) 1.891 C) 1.862 D) 1.881	995 980 990	0.19 0.19 0.19	25JUL00 02AUG00 09AUG00	80 81 83	fruits fruits fruits washed	0.74 **0.74** 0.45	35 42	- -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg)	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F2-FPAP F01N004R F-66820 Fuilla South	Apples Golden Delicious	1)1987 2)02-10APR01 3)24-27JUL01	1) 1.973 2) 1.956 3) 1.927 4) 1.976	1017 1008 993 1018	0.194 0.194 0.194 0.194	24JUL01 01AUG01 08AUG01 16AUG01	76 77-78 78-79 79-81	fruits fruits fruits peeled fruits duplicate samples : peel peelde fruits	3.98 1.15 **0.69** 0.53 3.51 <LOQ	0 35 42 42 42 42	Results (mg ziram/kg] in non treated sample at PHI 42 : not peeled fruits : 0.23 peeled fruits : 0.11 Duplicate samples : peel : 0.22 peeled fruits : n.d.

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included
(f) LOQ : Limit of quantification, n.d. : not detectable

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg)	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F3-FPAP											at PHI 42 in non treated sample ∅ 0.15 mg ziram/kg were found
F01N005R	Apples	1)1978	1) 1.945	1003	0.194	04JUL01	75	fruits	4.39	0	
F-11400	Golden	2)03APR01-15APR01	2) 1.964	1013	0.194	01JUL01	75	fruits	1.18	35	
Castelnau-dary	Delicious	3)07SEP01	3) 1.916	988	0.194	18JUL01	76	fruits	**0.96**	42	
South			4) 1.950	1005	0.194	25JULG01	78				

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included
(f)

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPAP G00W005R D-76327 Söllingen	Apples Golden Delicious	1) 1987 2) 20APR00 – 08MAY00 3) 20SEP00	A) 1.831 B) 1.926 C) 1.961 D) 1.874	963 1014 1032 986	0.19 0.19 0.19 0.19	17JUL00 24JUL00 01AUG00 08AUG00	74-76 75-76 77-78 78	fruits fruits fruits fruits	3.49 0.79 **0.50** 0.33	0 35 42 42 washed	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G1-FPAP G01N011R D-21635 Jork	Apples Gravenstei- ner	1) 1995 2) 10MAY- 14MAY01 3) 25AUG01- 12SEPT01	A) 1.824 B) 1.932 C) 1.930 D) 1.844	940 996 995 951	0.194 0.194 0.194 0.193	12JUN01 24JUN01 02JUL01 10JUL01	73 74 75 76	fruits fruits fruits	5.05 0.43 **0.30**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G2-FPAP G01N007R D-76327 Pfinztal- Söllingen	Apples Delbar- estivale	1) 1988 2)28APR01- 10MAY01 3)13AUG01	1.84 1.87 1.90 1.82	947 964 979 937	0.194 0.194 0.194 0.193	05JUN01 12JUN01 19JUN01 26JUL01	73 74 74 75	fruits fruits fruits	5.42 ∅ 0.31 **0.32**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ I1-FPAP I01N001R I-44028 Poggio Renatico	Apples Red Chief	1) 1985 2)02APR01- 20APR01 3) 30AUG01	1) 2.030 2) 1.929 3) 1.907 4) 1.929	1046 994 983 994	0.194 0.194 0.194 0.193	25JUN01 02JUL01 09JUL01 16JUL01	73-74 74-75 76-77 77-78	fruits fruits fruits	2.53 0.55 **0.22**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ S1-FPAP S00W008R E-03400 Villena	Apples Royal Gala	1) 1998 2) 15MAR00- 10APR00 3) 11SEP00	A) 1.880 B) 1.845 C) 1.940 D) 1.940	990 971 1021 1021	0.19 0.19 0.19 0.19	6JUL00 14JUL01 21JUL01 31JUL01	75 76 76 76	fruits fruits fruits fruits	12.2 4.59 **3.79** 1.82	0 35 42 42	- unwashed washed

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apples	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1-FPAP S01N005R S-46620 Ayora	Apples Red golden	1) 1994 2) 20MAR01 – 01APR01 3) 05SEP01	A) 1.963 B) 1.900 C) 1.917 D) 2.014	1011 979 989 1039	0.194 0.194 0.194 0.194	26JUN01 05JUL01 13JUL01 23JUL01	75 75 76-77 76-77	fruits fruits fruits	11.4 3.67 ∅**3.57**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ F1-FPPE F00W006R F-66200 Elne South	Pears Williams	1) 1992 2)17MAR00 -10APR00 3)01AUG00	A) 1.892 B) 1.710 C) 1.923 D) 1.813	996 900 1012 954	0.19 0.19 0.19 0.19	27MAY00 05JUN00 13JUN00 20JUN00	73 74 75 75	fruits fruits fruits fruits	4.35 1.55 1.07 **0.97**	0 27 34 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F2-FPPE F01N006R F-66200 Elne South	Pears Williams	1) 1992 2) 03-25 APR01 3) 31JUL01	1) 1.913 2) 1.928 3) 1.890 4) 1.963	986 994 974 1.012	0.194 0.194 0.194 0.194	21MAY01 28MAY01 07JUN01 14JUN01	74 74 74 74	fruits fruits fruits peeled fruits duplicate samples : peel peeled fruits	8.45 1.50 **1.34** 0.18 5.28 <LOQ	0 35 42 42 42 42	Results [mg ziram/kg] in non treated sample at PHI 42 : not peeled fruits : ∅ 0.85 peelded fruits : <LOQ Duplicate samples : peel : 2.45 peeled fruits : <LOQ

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment [kg a.s./ha]	Water [l/ha]	[kg a.s./hl]	Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
20011069/ F3-FPPE F01N007R F-66200 South	Pears Williams	1) 1992 2)20MAR01 -20APR01 3) 28JUL01	1) 1.924 2) 1.924 3) 1.948 4) 1.909	992 992 1004 984	0.194 0.194 0.194 0.194	21MAY01 28MAY01 07JUN01 15JUN01	74 74 74 75	fruits fruits fruits	6.64 1.06 **0.64**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPPE G00W011R D-21706 Drochtersen	Pears Bürgermeist er	1) 1960 2)02APR00- 06MAY00 3)02OCT00	A) 1.912 B) 1.848 C) 1.793 D) 1.857	1006 973 944 978	0.19 0.19 0.19 0.19	31JUL00 07AUG00 14AUG00 21AUG00	74 76 76 78	fruits fruits fruits fruits	3.07 0.67 0.59 **0.50**	0 28 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPPE G00W007R D-76327 Söllingen	Pears Boss	1) 1976 2)08APR00- 01MAY00 3)11SEP00	A) 1.825 B) 2.007 C) 1.912 D) 1.900	960 1056 1006 1000	1.9 1.9 1.9 1.9	10JUL00 17JUL00 24JUL00 31JUL00	75-76 76 77 78	fruits fruits fruits fruits	3.56 0.49 0.34 **0.21**	0 28 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G1-FPPE G01N012R D-21734 Oederquart	Pears Klaps Liebling	1)1969 2)05MAY01 -20MAY01 3)29AUG01	1) 1.911 2) 1.949 3) 1.916 4) 1.938	985 1004 988 999	0.194 0.194 0.194 0.194	14JUN01 24JUN01 02JUL01 11JUL01	73 73 73 74	fruits fruits fruits	3.13 0.26 **0.23**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G2-FPPE G01N008R D-76327 Pfinztal- Söllingen	Pears Conference	1) 1965 2)09APR01- 20APR01 3)05SEP01	1.86 1.89 1.96 1.98	961 976 1013 1019	0.194 0.194 0.194 0.194	19JUN01 26JUN01 03JUL01 10JUL01	74 74 74-75 75	fruits fruits fruits	10.5 0.75 **0.42**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ I1-FPPE I01N002R I-44028 Chiesa Nuova	Pears Williams	1) 1985 2)01APR01- 10APR01 3) 16AUG01	1) 1.969 2) 1.911 3) 1.901 4) 1.921	1015 985 980 990	0.194 0.194 0.194 0.194	12JUN01 20JUN01 27JUN01 04JUL01	74 75-76 76-77 76-77	fruits fruits fruits	6.41 0.87 **0.78**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ S1-FPPE S00W010R E-03400 Villena	Pears Blanquilla	1) 1992 2)12MAR00 -15APR00 3)15SEP00	A) 1.951 B) 1.883 C) 2.029 D) 1.868	1027 991 1068 983	0.20 0.20 0.20 0.20	6JUL00 14JUL00 21JUL00 31JUL00	75 75 76 76	fruits fruits fruits fruits	9.77 5.42 4.50 **2.64**	0 28 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	pears	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1FPPE S01N006R S-03400 Villena	Pears Flor de Invierno	1) 1992 2)15MAR01 -15APR01 3)25AUG01 -15SEP01	1) 1.904 2) 1.940 3) 2.013 4) 1.900	981 1000 1038 979	0.194 0.194 0.194 0.194	27JUN01 06JUL01 16JUL01 23JUL091	75 75 77 77	fruits fruits fruits	5.97 2.72 **1.33**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apricots	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F1-FPAC F01N008R F-66200 Elne	Apricots Pinkot	1) 1998 2)17-30MAR01 3)15JUN01	1) 2.247 2) 2.328 3) 2.274	965 1000 977	0.233 0.233 0.233	23APR01 30APR01 07MAY01	71 73 75	fruits fruits fruits	∅7.88 ∅5.03 ∅**4.93**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apricots	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ I1-FPAC I00W00ZR I-40026 Imola	Apricots Caldesi 1	1) 1975 2)10MAR00 -25MAR00 3)13JUN00	A) 2.256 B) 2.290 C) 2.264	989 1005 993	0.19 0.19 0.19	14APR00 22APR00 02MAY00	72 73 76	fruits fruits fruits	5.18 1.61 **0.92**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apricots	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ S1-FPAC S00W004R E-46022 Beniganim	Apricots Tadeo	1) 1972 2)20MAR00 -27MAR00 3)14JUN00	A) 2.284 B) 2.306 C) 2.290	1002 1011 1005	0.23 0.23 0.23	18APR00 26APR00 03MAY00	75 75 76	fruits fruits fruits	14.8 3.68 **2.75**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	apricots	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1-FPAC S01N007R S-46022 Beniganim	Apricots Taded	1) 1972 2)15MAR01 -30MAR01 3)10JUN01	1) 2.428 2) 2.304 3)2.382	1043 990 1032	0.232 0.211 0.231	24APR01 02MAY01 09MAY01	75 75 77	fruits fruits fruits	6.37 1.57 **1.11**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S2-FPPC S01N004R S-46625 Cofrentes	Peaches Dulce caprentes	1) 1985 2)20MAR01 -15APR01 3)20AUG01	1) 2.357 2) 2.295 3) 2.196	1012 986 943	0.233 0.233 0.233	22JUN01 02JUL01 10JUL01	75 75 75	fruits fruits fruits	14.9 3.43 **1.68**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/GR1-FPPC GR00W002 R 58200 Trifili	Peaches Red Fortuna	1) 1985 2)15APR00-01MAY00 3) 15AUG00	A) 2.307 B 2.244 C)2.280	1012 984 1000	0.23 0.23 0.23	17JUN00 27JUN00 04JUL00	75 76 78	fruits fruits fruitsi	16.0 2.02 **0.83**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ I1-FPPC I01N003R I-40050 Dugliolo	Peaches Weinbercke	1) 1987 2) 20MAR01- 01APR01 3)03JUL01	1) 2.348 2) 2.359 3) 2.271	966 1013 976	0.243 0.233 0.233	07MAY01 14MAY01 23MAY01	72 73 73	fruits fruits fruits	5.15 0.62 **0.48**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ S1-FPPC S00W013R E-46015 Catadau	Peaches Fedenca	1) 1991 2) 20FEB00- 15MAR00 3)29JUN00	A) 2.273 B) 2.230 C) 2.332	997 978 1023	0.23 0.23 0.23	02MAY01 11MAY01 18MAY01	75 76 77	fruits fruits fruits	10.0 1.99 **1.03**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ S2-FPPC S00W014R E 03630 Sax	Peaches Zaragozano	1) 1978 2)15APR- 25APR00 3)10SEP00	A) 2.225 B) 2.117 C) 2.151	976 029 943	0.23 0.23 0.23	10JUL00 17JUL00 26JUL00	75 75 75	fruits fruits fruits	6.06 2.33 **1.12**	0 35 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1-FPPC S01N003R S-03630 Sax	Peaches zaragozano	1) 1978 2)13-30 MAR01 3)01-15 SEP01	1) 2.375 2) 2.254 3) 2.297	1020 968 987	0.233 0.233 0.233	16MAR01 23MAR01 30MAR01	62 65 68	fruits	<LOQ	157	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Peaches	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/L)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	Ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location Including Postal Code	Commodity/ Variety (a)	Date of 1) Planting 2) Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [L/ha]	[kg a.s./hL]						
20011069/ F1-FPPC F01N008R F-66130 Corbère	Peaches O'Henry	1) 1997 2) MAR01 3) 12AUG01	1) 2.343 2) 2.368 3) 2.318	1006 1017 996	0.233 0.234 0.233	13JUN01 20JUN01 27JUN01	75 75 75-76	fruits fruits fruits peeled fruits	6.82 1.79 1.13 <LOQ(0.09)	0 35 42 42	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label pre harvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	sour cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPCH G00W017R D-21635 Jork	Sour cherries Schattenmorelle	1) n.a. 2)25APR00-06MAY00 3)19JUL00	A) 2.382 B) 2.283 C) 2.482	1032 989 1075	0.23 0.23 0.23	14JUN00 21JUN00 28JUN00	75 78 78-80	fruits fruits fruits	7.71 1.30 **0.94**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	sour cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPCH G00W015R D-76327 Söllingen	Sour cherries Schattenmorelle	1) 1982 2) 01APR00-14APR00 3)17JUL00	A) 2.293 B) 2.481 C) 2.134	1006 1088 936	0.23 0.23 0.23	07JUN00 16JUN00 26JUN00	75 77 83-85	fruits fruits fruits	8.06 2.51 **0.78**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F1-FPCH F01N010R F-66130 Corbère South	Cherries Celeste	1) n.a. 2) n.a. 3)20MAY01	1) 2.206 2) 2.260 3) 2.320	948 971 997	0.233 0.233 0.233	17APR01 24APR01 02MAY01	74 76 77	fruits fruits fruits	6.12 0.53 **0.35**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G1-FPCH G01N013R D-21635 Jork	Cherries Schatten- morelle	1) 1985 2)25APR01- 01MAY01 3)08AUG01	1) 2.370 2) 2.331 3) 2.315	1018 1001 884	0.233 0.233 0.232	25JUN01 02JUL01 10JUL01	76 78-79 78-79	fruits fruits fruits	∅ 12.9 0.68 **0.63**	0 15 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G2-FPCH G01N009R D-74354 Besigheim	Cherries Regina	1) 1995 2)15- 25APR01 3)10JUL01	2.45 2.28 2.43	1054 978 1046	0.233 0.233 0.233	22MAY01 30MAY01 06JUN01	73 73-75 75	fruits fruits fruits	34.6 6.85 ∅ **3.25**	0 15 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	cherries	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1-FPCH S01N008R S-46022 Zarra	Cherries Picota	1) 1992 2)01MAR01 -30MAR01 3)40 t/ha	1) 2.282 2) 2.416 3) 2.247	1023 1038 1008	0.223 0.233 0.223	07MAY01 15MAY01 22MAY01	76 76 79-81	fruits fruits fruits	8.34 1.50 **1.18**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ F1-FPPL F01N013R F-67113 Blaesheim	Plums Mirabelle de Nancy	1) 1980 2)15APR01-25APR01 3) 03AUG01	1) 2.32 2) 2.42 3) 2.29	996 1041 985	0.233 0.232 0.232	29JUN01 06JUL01 17JUL01	75 75 76	fruits fruits fruits	1.89 1.34 **0.47**	0 14 21	in the non treated sample residue were found : PHI o/ ∅ 0.87 mg ziram/kg PHI 21 : ∅ 0.31 mg ziram/kg

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. M. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPPL G00W016R D-21635 Jork	Plums Fellenburger	1) 1988 2)10MAY00 -20MAY00 3)31AUG00	A) 2.204 B) 2.498 C) 2.277	967 1096 999	0.23 0.23 0.23	24JUL00 01AUG00 10AUG00	73-74 75-76 81	fruits fruits fruits	1.15 0.43 **0.31**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. MM. Balluff GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	76.96 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20003004/ G1-FPPL G00W014R D-76477 Bischweiler	Plums Elena	1) 1995 2)09APR00- 16APR00 3)31AUG00	A) 2.343 B) 2.261 C) 2.185	1038 992 958	0.23 0.23 0.23	27JUL00 03AUG00 10AUG00	77 81 83	fruits fruits fruits	0.34 0.45 **0.20**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	Plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ G1-FPPL G01N010R D-21635 Jork	Plums Frühe Frucht	1) 1988 2)26APR01- 07MAY01 3)15AUG01	2.239 2.426 2.323	962 1042 998	0.233 0.233 0.233	10JUL01 18JUL01 25JUL01	77 79 81	fruits fruits fruits	∅ 3.05 1.13 **0.70**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyze d (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ I1-FPPL I01N004R I-40060 S.Gabriele (Bo)	Plums Angelemo	1) 1989 2)25MAR01 -05APR01 3)30AUG01	1) 2.318 2) 2.297 3) 2.283	996 987 981	0.233 0.233 0.233	25JUL01 02AUG01 09AUG01	76 77 79	fruits fruits fruits	3.04 0.76 **0.40**	0 14 21	- - -

(a) According to Codex Classification / guide (b) only if relevant
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(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included

Residues Data from Supervised Trials in Summary Form

Active ingredient (common name)	:	Ziram	Producer of commercial product	:	UCB
Crop/crop group	:	plums	Submission date	:	
Responsible body for reporting (name, address)	:	Dr. B. Pollmann GAB/ IFU Biotechnologie GmbH Eutinger Straße 24 D-75223 Niefern-Öschelbronn	Page	:	
Country	:	Germany	Indoor/outdoor	:	Outdoor
Content of active substance (g/kg or g/l)	:	77.6 %	Other active substance in the formulation		--
Formulation (e.g. WP)	:	WG	(common name and content)	:	--
Commercial Product (name)	:	Ziram 76 WG	Residues calculated as	:	ziram

1	2	3	4			5	6	7	8	9	10
Report No. Location including Postal Code	Commodity/ Variety (a)	Date of 1) Sowing or Planting 2)Flowering 3) Harvest (b)	Application rate per treatment			Dates of treatment(s) or no of treatment(s) and last date (c)	Growth stage at last treatment or date	Portion analyzed (a)	Residues (mg/kg) ziram	PHI (days) (d)	Remarks: (e)
			[kg a.s./ha]	Water [l/ha]	[kg a.s./hl]						
20011069/ S1-FPPL S01N009R S-46620 Ayora	Plums Cenizate	1) 1990 2)15-30MAR01 3) AUG01	1) 2.408 2) 2.280 3) 2.281	1034 979 980	0.233 0.233 0.233	26JUN01 05JUL01 13JUL01	75 75 78	fruits fruits fruits	2.25 2.04 **1.75**	0 14 21	In both non treated samples residues were found : PHI 0 : 1.54 mg ziram/kg PHI 21 : 1.25 mg ziram/kg

(a) According to Codex Classification / guide (b) only if relevant
(c) Year must be indicated (d) days after last application (label preharvest interval, PHI, underlines)
(e) Remarks may include: Climatic conditions, reference to analytical method and information which metabolites are included