ANNEX B

Thiram

Addendum to the monograph
November 2002

B.7 Residue data

B.7.1.1 Metabolism, distribution and expression of residues in plants - Leafy vegetables (Annex IIA 6.1)

The systemic action of dimethyldithiocarbamates on cucumber scab caused by *Cladosporium cucumerinum* and the conversion of these compounds by plants. – Chapter II. The transformation of dialkyldithiocarbamates into other fungi-toxic compounds by plants (Dekhuijzen H. – Neth. J. Plant Path. 70, Suppl. 1, pp. 15-28, 1964).

Contribution à l'étude de l'action systémique du thiram (TMTD) chez les plantes à l'aide de thiram marqué au ^{35}S (Massaux F. – Mededelingen van de Landbouwhoge-school en de opzoekingsstations van Staat te Gent 28, pp. 590-596, 1963).

Guidelines : None (publications)

GLP : no

Dekhuijzen (1964) reported that spraying thiram (1000 ppm aqueous suspension) on the leaves of cucumber and tobacco plants leads to the detection of DDC-glucoside and DDC-alanine in the sap of these plants after four days of spraying. These findings were corroborated by Massaux (1963) who detected the same metabolites in cucumbers and begonia plants of which the leaves were treated with ^{35}S-labelled thiram.

Conclusion :
These informations indicate that the metabolic pathway of thiram on leafy crops is similar to that observed in other plants.

B.7.1.2 Metabolism, distribution and expression of residues in plants – Further information on the occurrence of 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid in plants after treatment with thiram.

2-(N,N-dimethylamino)-4-thioazoline carboxilic acid is a metabolite of thiram identified in metabolism studies after seed treatment. It results from the cyclization of the dimethyldithiocarbamate-alanine conjugate (DDC-alanine) with the loss of H_2S.
This metabolite was however not observed in studies carried out on plants after foliar treatment. The reason for this may be that the identification of intermediary degradation products was made to a lower extent than in the case of seed treatment (Mass spectrometry was never used in the metabolism studies in fruits).

A study was submitted by the notifier in 1997 providing more information on the circumstances of the formation of 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid :

Investigation on the stability of ^{14}C-3-(dimethyldithiocarbamoyl)-alanine in the presence of a soybean straw matrix (Robinson A. September 13, 1996)
Guidelines :
US EPA Pesticide Assessment Guidelines, Subdivision O , Section 171-4
GLP :
yes

In this study, samples of methanol/water (9:1) and soybean straw were fortified with ^{14}C-DDC-alanine to assess the stability of this compound. The soybean straw was extracted with methanol/water (9:1).
The fortified methanol/water sample and the methanol/water extract from the fortified soybean straw were concentrated either at ambient temperature in the absence of applied heat or at a slightly elevated temperature (32-33°C). The concentrated methanol/water fractions were then solvent partitioned with dichloromethane, and the resulting aqueous fractions were assayed by HPLC.
^{14}C-DDC-alanine was revealed to be stable in the fortified solvent both at normal and and slightly elevated temperatures of the work-up process. However, in the methanol/water extract from soybean straw, metabolite M1 was present, suggesting that ^{14}C-DDC-alanine is converted to this compound in the presence of vegetal

tissue. The level of conversion increased with temperature with essentially total conversion at slightly elevated temperature.
This study demonstrated the instability of DDC-alanine. This conjugate of the first degradation product of thiram easily converts to the cyclic compound 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid. This conversion occurs in the presence of vegetal tissue partially at ambiant temperature and quantitatively in the presence of applied heat. As this conversion does not seems to depend on particular conditions, it is not excluded that the consumer is exposed to 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid in practice.

Conclusion :
2-(N,N-dimethylamino)-4-thioazoline carboxilic acid must be considered as a real metabolite of thiram and not as an artefact resulting from a chemical reaction during the sample work-up procedure used in the metabolism studies.

B.7.3 Residue definition.

Plant products.

Residue definition for monitoring : thiram
The question related to 2-(N,N-dimethylamino)-4-thioazoline carboxilic acid is partially resolved. It has been proved that this metabolite is present in the rat metabolism. Its toxicology is therefore covered by the toxicological dossier of thiram. 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 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.

Residue definition for risk assessment : thiram and metabolites containing the CS_2 moeity.

Animal products.

No need for a residue definition.

B.7.4 Use pattern

Intended use of thiram in foliar uses (WG 80% thiram) (tables submitted by UCB)

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**	**Pre-harvest interval in days**
FRUIT							
Apple *Venturia inaequalis* (Scab)	All Europe	2,4	9,6	100 to 240	4 (treatments against *Monilia* and *Gloeosporium* included)	7-14 days First application on young leaves	42
Apple *Monilia*	All Europe	2,4	-	160 to 240	2	7-14 days First application before flowering	42
						7-14 days	

Apple *Gloeosporium* *Gloeodes pomigena* *Schizothirium pomi*	All Europe	2,0	-	160 to 200	4	First application half June	42
Pear *Venturia pirina* (Scab) *Stemphylium vesicarium*	All Europe	2,4	9,6	100 to 240	4 (treatments against *Monilia* and *Gloeosporium* included)	7-14 days First application on young leaves	42
Pear *Monilia*	All Europe	2,4	-	160 to 240	2	7-14 days First application before flowering	42
Pear *Gloeosporium* *Gloeodes pomigena* *Schizothirium pomi*	All Europe	2,00	-	160 to 200	4	7-14 days First application half June	42
Cherry *Monilia spp.* *Coryneum*	All Europe	2,4	7,2	160 to 240	3	7-14 days First application during leaf fall then before flowering	14
Plum Monilia spp. Coryneum	All Europe	2,4	7,2	160 to 240	3	7-14 days First application during leaf fall then before flowering	14

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	Pre-harvest interval in days
Almond *Monilia spp.* *Coryneum* *Taphrina*	South-Europe	2,4	7,2	60 to 240	3	7-14 days. - Cover the flowering. Last application 35 days after petal fall	150
Apricot *Coryneum beijerinckii* *Monilia spp.* *Fusicladium*	South-Europe	2,4	7,2	160 to 240	3	7-14 days - First application during leaf fall then before flowering	42
Peach *Monilia spp* *Fusicladium.*	All Europe	2,4	7,2	160 to 240	3	7-14 days - First application before flowering	42
Peach *Taphrina deformans*	All Europe	2,4	4,8	160 to 240 (300 to 400 g a.s./hl for low volume spray at 500 l/ha)	2	Autumn/ Winter treatment	42
Peach *Coryneum beijerinckii (Stigmina carpophila)* *Fusicoccum amygdali*	All Europe	2,4	4,8	160 to 240 (300 to 400 g a.s./hl for low volume spray at 500 l/ha)	2	Autumn/ Winter treatment	42
Wine grapes *Botrytis* *Colletotrichum*	All Europe	3,2	9,6	160 to 320	3	- First application during flowering	35
Strawberry (indoor & outdoor) *Botrytis* *Colletorichum* *Mycosphaerella*	All Europe	1.6-2.4	7.2	160 to 320	3	- During flowering Repeat every 7 - 14 days if necessary	7
VEGETABLES							
Lettuce *Botrytis, algae, mosses*	All Europe indoor	3.2	3.2 (*)	320	1 (*)	treatment at the latest when leaves cover the row	42

(*) 1 treatment per rotation, several rotations possible per year

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	Pre-harvest interval in days
ORNEMENTALS							
Ornamentals (outdoor) *Botrytis*	All Europe	3,2	-	200 to 320	as needed	7 days	-
Ornamentals (indoor) *Botrytis*	All Europe	3,2	-	200 to 320	as needed	7 days	-
Ornamentals bulbs *Sclerotinia*	All Europe	3,2	-	320	as needed	7-10 days after flowering	-
Peony *Botrytis*	All Europe	-	-	1500 (root soaking)	1	-	-

Intended use of thiram as repellent

Crop Disease	Country	Maximum rate per application (kg a.s./ha)	Maximum rate per season (kg/a.s./ha)	Spray concentration (g a.s./ha)	Maximum number of applications per season	Spray interval in days	Pre-harvest interval in days
Formulation type Flow for seed dressing (533g thiram/l)**SEED**							
Seed *Bird repellent*	All Europe	0,2	0,2	Seed dressing	1	Seed dressing	-

Intended use of thiram as seed dressing

Crop	Pest - Disease	Countries	Maximum application rate (g a.s./100 kg seed)
Formulation type Flow for seed dressing (533g thiram/l)			
Alfalfa	soil / seed borne fungi	All Europe	160
Barley	soil / seed borne fungi, animal repellency	All Europe	160
Beans	soil / seed borne fungi	All Europe	160
Beet (leaf, sugar)	soil / seed borne fungi	All Europe	480
Cabbage	soil / seed borne fungi	All Europe	400
Celery	soil / seed borne fungi	All Europe	400
Cucumber	soil / seed borne fungi	All Europe	400
Grass	soil / seed borne fungi	All Europe	160
Leek	soil / seed borne fungi	All Europe	5600
Lettuce	soil / seed borne fungi	All Europe	400
Linseed	soil / seed borne fungi	All Europe	300
Lupin	soil / seed borne fungi	All Europe	160
Maize	soil / seed borne fungi, animal repellency	All Europe	160
Oats	soil / seed borne fungi	All Europe	160
Oilseed rape	soil / seed borne fungi	All Europe	440
Onion	soil / seed borne fungi	All Europe	400
Parsley	soil / seed borne fungi	All Europe	400
Peas	soil / seed borne fungi, animal repellency	All Europe	160
Poppy	soil / seed borne fungi	All Europe	400
Potato	soil / seed borne fungi	All Europe	80
Radish	soil / seed borne fungi	All Europe	400
Rye	soil / seed borne fungi	All Europe	160
Spinach	soil / seed borne fungi	All Europe	400
Turnip	soil / seed borne fungi	All Europe	400
Vetch	soil / seed borne fungi	All Europe	160
Wheat	soil / seed borne fungi, animal repellency	All Europe	160

B.7.5 Identification of critical GAPs

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

Table B.7.5-1 : Summary of critical GAPs

Crop Disease	Country	Maximum rate per application (kg a.s./ha)	Maximum rate per season (kg a.s./ha)	Spray concentration (g/hl)	Maximum number of applications per season	spray interval in days	Pre-harvest interval in days
Fruit							
Apple *Venturia inaequalis* (Scab) *Stemphylium*	All Europe	2.4	9.6	100 to 240	4 (treatments against Monilia and Gloeosporium included)	7-14 days - First application on young leaves	42

Apple *Monilia*	All Europe	2.4	-	160 to 240	2	7-14 days - First application before flowering	42
Apple *Gloeosporium*	All Europe	2.0	-	160 to 200	4	7-14 days - First application half June	42
Pear *Venturia pirina* (Scab)	All Europe	2.4	9.6	100 to 240	4 (treatments against Monilia and Gloeosporium included)	7-14 days - First application on young leaves	42
Pear *Monilia*	All Europe	2.4	-	160 to 240	2	7-14 days - First application before flowering	42
Pear *Gloeosporium*	All Europe	2.00	-	160 to 200	4	7-14 days - First application half June	42
Almond *Monilia spp.* *Coryneum*	South-Europe	2.4	7.2	60 to 240	3 (last application not later than 35 days after flowering)	7-14 days	150
Apricot *Coryneum beijerinckii* *Monilia spp.* *Fusicladium*	South-Europe	2.4 2.0	9.6 4	160 to 240	4 applications in total	7-14 days - First application before/during disease occurrence	42
Peach *Monilia spp.* *Fusicladium*	All Europe	2.4 2.0	9.6 4	160 to 240 (300 to 400 g a.s./hl for low volume spray at 500 l/ha)	4 applications in total	7-14 days - First application before/during flowering	42
Peach *Taphrina deformans*	All Europe	2.4	4.8	160 to 240 (300 to 400 g a.s./hl for low volume spray at 500 l/ha)	2	7-14 days - Winter treatment	- (stage)
Peach *Coryneum beijerincki (Stigmina carpophila)* *Fusicoccum amygdali*	All Europe	2.4	4.8	160 to 240 (300 to 400 g a.s./hl for low volume spray at 500 l/ha)	2	- Autumn/winter treatment after harvest	- (stage)
Wine grapes *Botrytis* *Colletotrichum*	All Europe	3,2	9,6	160 to 320	3	- First application during flowering	35
Field crops							
Lettuce *Botrytis*	All Europe indoor	3.2	3.2		1	treatment at the latest when leaves cover the row	42
Lettuce *Botrytis*	All Europe outdoor	3.2	3.2		1	treatment at the latest when leaves cover the row	42

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

For some crops, the GAP has been modified and/or new data have been generated. The consequences of these new informations are discussed herebelow.
The summary sheets of the new trials are present in appendix to this section. The figures selected for statistical analysis and MRL proposals are indicated in bold.

B.7.6.1 Almonds (Foliar application).
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 Apples and pears (Foliar application).

Since both the ADI and the ARfD were exceeded when thiram was applied according to the 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 THIRAM 80 WG (80% Thiram) in apples at one site in Northern France, 2001 (Perny A. November 09, 2001a).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Northern France, 2001 (Perny A. November 20, 2001a).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in apples at one site in Northern Germany, 2000 (Balluff M. March 22, 2001a).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in apples at one site in Southern Germany, 2000 (Balluff M. May 21, 2001a).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Northern France, 2001 (Perny A. November 09, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Northern France, 2001 (Perny A. November 09, 2001c).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in pears at one site in Northern Germany, 2000 (Balluff M. March 21, 2001a).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in pears at one site in Southern Germany, 2000 (Balluff M. March 21, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Southern France, 2001 (Perny A. November 20, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Southern France, 2001 (Perny A. November 09, 2001d).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Italy, 2001 (Perny A. December 17, 2001a).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in apples at one site in Spain, 2000 (Balluff M. March 27, 2001a).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Spain, 2001 (Perny A. November 09, 2001e).
Determination of residues of THIRAM 80 WG (80% Thiram) in apples at one site in Spain, 2001 (Perny A. November 13, 2001a).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in pears at one site in Southern France, 2000 (Balluff M. March 22, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Southern France, 2001 (Perny A. November 13, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Southern France, 2001 (Perny A. November 13, 2001c).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Italy, 2001 (Perny A. December 17, 2001b).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in pears at one site in Spain, 2000 (Balluff M. March 27, 2001b).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Spain, 2001 (Perny A. November 13, 2001d).
Determination of residues of THIRAM 80 WG (80% Thiram) in pears at one site in Spain, 2001 (Perny A. November 13, 2001e).

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

Apples North : 0.32 – 0.31 – 0.45 – 0.29 mg/kg
Pears North : <0.05 – 0.31 – 0.30 - <0.05 mg/kg
Median residue apples and pears : 0.31 mg/kg
R(max) : 0.70 mg/kg
R(ber) : 0.64 mg/kg

Apples South : 0.33 – 0.31 – 3.36 – 0.39 – 0.57 – *0.4 – 0.7* mg/kg
Pears South : 0.41 – 0.11 – 0.31 – 3.01 – 0.42 – 0.57 mg/kg
Median residue apples and pears : 0.41 mg/kg
R(max) : 3.65 mg/kg
R(ber) : 1.27 mg/kg

Note : in italics results of trials in accordance with the new GAP and already reported in the monograph (p 296-297).

MRL proposal: 3 mg/kg
In fact 2 residue trials in the South lead to clearly higher residue levels than all the other trials and strongly influence the MRL proposal. These trials are not considered as outliers because the initial deposit at day 0 is rather close to what is usually observed.

B.7.6.3 Peaches and apricots (Foliar application).

Since both the ADI and the ARfD were exceeded when thiram was applied according to the 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 THIRAM 80 WG (80% Thiram) in apricots at one site in France, 2001 (Perny A. November 19, 2001a).
Determination of residues of THIRAM 80 WG (80% Thiram) in apricots at one site in Spain, 2001 (Perny A. November 19, 2001b).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in apricots at one site in Spain, 2000 (Balluff M. March 27, 2001c).
Determination of residues of THIRAM 80 WG (80% Thiram) in peaches at one site in France, 2001 (Perny A. November 13, 2001f).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in peaches at one site in Greece, 2000 (Balluff M. March 27, 2001d).
Determination of residues of THIRAM 80 WG (80% Thiram) in peaches at one site in Greece, 2001 (Perny A. November 20, 2001c).
Determination of residues of THIRAM 80 WG (80% Thiram) in peaches at one site in Italy, 2001 (Perny A. November 20, 2001d).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in peaches at one site in Spain, 2000 (Balluff M. March 27, 2001e).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in peaches at one site in Spain, 2000 (Balluff M. March 27, 2001f).
Determination of residues of THIRAM 80 WG (80% Thiram) in peaches at one site in Spain, 2001 (Perny A. November 13, 2001g).
Determination of residues of THIRAM 80 WG (80% Thiram) in peaches at one site in Spain, 2001 (Perny A. November 13, 2001h).

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

Apricots : 0.85 – 1.40 – 1.74 mg/kg
Peaches : 0.49 – 1.34 – 0.71 – 0.62 – 1.74 – 0.38 – 0.58 mg/kg
Median residue apricots and peaches : 0.78 mg/kg
R(max) : 2.50 mg/kg
R(ber) : 2.97 mg/kg

MRL proposal : 3 mg/kg

B.7.6.4 Plums (Foliar application).

Information about the residue level according to the GAP is not sufficient.

B.7.6.5 Cherries (Foliar application).

Information about the residue level according to the GAP is not sufficient.

B.7.6.6 Grapes (Foliar application).

A study reporting 2 additional trials has been submitted in support of the GAP in the South :

Determination of Thiram (as CS_2) residues in grape raw agricultural commodity following treatment with the preparation Thianosan Ultra Dispersible under field conditions in France in 1997 (Perny A. February 03 , 1998)

These trials have been conducted using the total CS_2 method. From previous data it had been concluded that residues measured in grapes with that total method are in average about 2 times higher than those that would be obtained with the specific thiram-method. The results need therefore to be divided by 2 to be expressed as thiram.

5 Trials are now available in support of the GAP in the South with the following results (old data in italics) :
2.6 – 0.4 – 1.3 – 1.00 – 0.42 mg/kg
Median residue : 1.00 mg/kg
Mean residue : 1.14 mg/kg

The MRL proposal for grapes as proposed in the monograph on the basis of the data for the North of the EU remains 3 mg/kg.

B.7.6.7 Strawberries (Foliar application).

4 Studies reporting 4 additional trials valid for glasshouse production have been submitted :

Determination of residues of thiram in strawberries following the application of Thiram Granuflo 80 WG under greenhouse conditions at 1 location in France, 1998 (Balluff M. March 01, 1999).
Determination of residues of thiram in strawberries following the application of Thiram Granuflo 80 WG under greenhouse conditions at 1 location in France, 1998 (BalluffM. March 02, 1999).
Determination of residues of thiram in strawberries following the application of Thiram Granuflo 80 WG under greenhouse conditions in Spain (Balluff M. July 01, 1998).
Determination of residues of thiram in strawberries following the application of Thiram Granuflo 80 WG under greenhouse conditions at 1 location in Spain, 1998 (Balluff M. November 12, 1998).

The 4 results according to the GAP (1.6-2.5 kg/ha, 7 days PHI) are :
3.7 – 1.8 – 6.8 – 0.89 mg/kg
Median residue : 2.8 mg/kg

Mean residue : 3.3 mg/kg

The MRL proposal for strawberries as proposed in the monograph on the basis of the data for outdoor production remains 10 mg/kg.

B.7.6.8 Lettuce (Foliar application).

The notifier has proposed a new GAP for lettuce (3.2 kg as/ha, treatment at the latest when leaves cover the row, 42 days PHI). Indoor trials have been submitted in support of this GAP.

Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in lettuce at one greenhouse site in France , 2000 (Balluf M. May 21, 2001b).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in lettuce at one greenhouse site in Northern Germany, 2000 (Balluf M. May 21, 2001c).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in lettuce at one greenhouse site in Southern Germany, 2000 (Balluf M. May 21, 2001d).
Determination of residues of thiram after application of Thiram 80 WG (containing 80% thiram) in lettuce at one greenhouse site in Spain , 2000 (Balluf M. May 21, 2001e).
Determination of residues of Thiram 80 WG (80% thiram) in lettuce under greenhouse in Northern and Southern Europe, 2001 (Perny A. November 21, 2001).

In these trials thiram was analysed after conversion into CS_2. The actual level of thiram itself may be therefore overestimated.
These trials were carried out as reversed decline studies. Within each trial, 3 plots were treated at different dates corresponding to different growth stages, and later collected simultaneously at maturity. Thanks to this method a relationship between the growth stage at application and the residue level at harvest can be established.

The results are summarized here below:
Applications from planting to growth stage BBCH 19 (9 or more true leaves unfold) : 1.11 – 10.1 – <0.05 – <0.05 – <0.05 – 1.19 -<0.05 - <0.05 – 1.40 mg/kg (these figures are collected from 4 trials in total)
Application at growth stage BBCH 41 (beginning of formation of the head) and later : 43.9 – 79.8 – 33.3 – 92.6 – 102 – 7.33 – 0.23 – 0.34 – 1.27 – <0.05 – <0.05 – 2.81 mg/kg (these figures are collected from 6 trials in total)

More trials are needed to establish a MRL. Given the apparent difficulty to maintain the residues at reasonable levels when the product is applied after the growth stage BBCH 19, it is advised to refine the GAP in a way that does not authorize the use of thiram after this growth stage. It is also recommended to avoid the use of non standardised description for the growth stage of the last application. For instance, the 'coverage of the row by the leaves' is not a phenomenological stage and may lead to a wide range of interpretation among the users of the product.
Information about the ratio residues of thiram itself/sum of thiram and metabolites containing the CS_2 moiety is also needed to propose a MRL conform with the residue definition for monitoring.

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 thiram after application of Thiram 80WG (containing 80% thiram) in apple at one site in Southern Germany, 2000 – Final report of the processing part (Polmann B. May 08, 2001)

GLP : yes

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 more largely when apples are pressed or crushed. In fact the level of CS_2 residues is very low in the final processed products (juice and sauce). It is not possible on the basis of one single study to established transfer factors from apples to juice and sauce.
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.

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 for which sufficient data about the practical residue level are available.

B.7.11.1 Long term risk for consumers

The ADI of thiram is 0.01 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 (F) foliar use (ST) seed treatment	FAO diet (kg/d/person)	proposed MRL (mg thiram/kg)	conversion factor thiram/total CS_2 generators	TMDI (mg thiram/person/d)	% ADI
almonds (F)	0.0018	0.1	1	0.00018	0.03
apples (F)	0.040	3	1	0.120	20
pears (F)	0.0113	3	1	0.0339	6
peaches (F)	0.0125	3	1	0.0375	6
apricots (F)	0.0035	3	1	0.0105	2

grapes table (F)	0.0160	3	2	0.0960	16
wine (F)	0.150*	0.8**	1	0.120	20
strawberries (F)	0.0053	10	1	0.053	9
radishes (ST)	0.002	0.1	1	0.0002	0.03
turnips (ST)	0.002	0.1	1	0.0002	0.03
onions (ST)	0.0278	0.1	1	0.00278	0.5
cucumbers (ST)	0.0045	0.1	1	0.00045	0.1
cabbages (ST)	0.0398	0.1	1	0.00398	0.7
lettuce (ST)	0.0225	0.1	1	0.00225	0.4
spinach (ST)	0.002	0.1	1	0.0002	0.03
parsley (ST)	0.001*	0.1	1	0.0001	0.02
beans (ST)	0.012	0.1	1	0.0012	0.2
peas (ST)	0.014	0.1	1	0.0014	0.2
celery (ST)	0.002	0.1	1	0.0002	0.03
leek (ST)	0.002	0.1	1	0.0002	0.03
linseed (ST)	0.000	0.1	1	0.0000	0
poppy seed (ST)	0.000	0.1	1	0.0000	0
rape seed & oil (ST)	0.0043	0.1	1	0.00043	0.07
potatoes (ST)	0.241	0.1	1	0.0241	4
cereals (ST)	0.2265	0.1	1	0.02265	4
total TMDI					89.37

- * estimations
- ** median CS_2 residues in wine.

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

TMDI calculations

Commodity (F) foliar use (ST) seed treatment	German diet (kg/d/person)	proposed MRL (mg thiram/kg)	conversion factor thiram/total CS_2 generators	TMDI (mg thiram/person/d)	% ADI
almonds (F)	0.0015	0.1	1	0.00015	0.1
apples (F)	0.042	3	1	0.126	93
pears (F)	0.0064	3	1	0.0192	14
peaches (F)	0.0079	3	1	0.0237	18
apricots (F)	0.0045	3	1	0.0135	10
grapes table & raisins (F)	0.0087	3	2	0.0522	39
strawberries (F)	0.0048	10	1	0.048	36
radishes (ST)	0.0006	0.1	1	0.00006	0
turnips (ST)	0.0006	0.1	1	0.00006	0
onions (ST)	0.0083	0.1	1	0.00083	1
cucumbers (ST)	0.0115	0.1	1	0.00115	1
cabbages (ST)	0.0252	0.1	1	0.00252	2
lettuce (ST)	0.0015	0.1	1	0.00015	0.1
spinach (ST)	0.0025	0.1	1	0.00025	0.2
parsley (ST)	0.0002	0.1	1	0.00002	0.1
beans (ST)	0.0038	0.1	1	0.00038	0.3
peas (ST)	0.0041	0.1	1	0.00041	0.3
celery (ST)	0.0004	0.1	1	0.00004	0
leek (ST)	0.0025	0.1	1	0.00025	0.2
linseed & oil	0.0001	0.1	1	0.00001	0

(ST)					
poppy seed (ST)	0.0003	0.1	1	0.00003	0
rape seed & oil (ST)	0.0017	0.1	1	0.00017	0.1
potatoes (ST)	0.0711	0.1	1	0.00711	5
cereals (ST)	0.108	0.1	1	0.0108	8
total TMDI					228.4

NEDI calculation

Commodity (F) foliar use (ST) seed treatment	German diet (kg/d/person)	STMR (mg thiram/kg)	conversion factor thiram/total CS_2 generators	TMDI (mg thiram/person/d)	% ADI
almonds (F)	0.0015	0.1	1	0.00015	0.1
apples (F)	0.042	0.41	1	0.0172	13
pears (F)	0.0064	0.41	1	0.0026	2
peaches (F)	0.0079	0.78	1	0.0062	5
apricots (F)	0.0045	0.78	1	0.0035	3
grapes table & raisins (F)	0.0087	0.85	2	0.0148	11
strawberries (F)	0.0048	1.46	1	0.0070	5
radishes (ST)	0.0006	0.1	1	0.00006	0
turnips (ST)	0.0006	0.1	1	0.00006	0
onions (ST)	0.0083	0.1	1	0.00083	1
cucumbers (ST)	0.0115	0.1	1	0.00115	1
cabbages (ST)	0.0252	0.1	1	0.00252	2
lettuce (ST)	0.0015	0.1	1	0.00015	0.1
spinach (ST)	0.0025	0.1	1	0.00025	0.2
parsley (ST)	0.0002	0.1	1	0.00002	0.1
beans (ST)	0.0038	0.1	1	0.00038	0.3
peas (ST)	0.0041	0.1	1	0.00041	0.3
celery (ST)	0.0004	0.1	1	0.00004	0
leek (ST)	0.0025	0.1	1	0.00025	0.2
linseed & oil (ST)	0.0001	0.1	1	0.00001	0
poppy seed (ST)	0.0003	0.1	1	0.00003	0
rape seed & oil (ST)	0.0017	0.1	1	0.00017	0.1
potatoes (ST)	0.0711	0.1	1	0.00711	5
cereals (ST)	0.108	0.1	1	0.0108	8
total NEDI					57.4

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

TMDI calculation

Commodity (F) foliar use (ST) seed treatment	British diet children – 97.5th percentile (kg/d/person)	British diet infant – 97.5th percentile (kg/d/person)	proposed MRL (mg thiram/kg) multiplied by conversion factor	Intake children		Intake infant	
				mg/kg bw/d	% ADI	mg/kg bw/d	% ADI

almonds (F)	L/C	L/C	0.1	L/C	0	L/C	0
apples (F)	0.1328	0.0752	3	0.01328	133	0.03008	301
pears (F)	0.0634	0.0256	3	0.00634	63	0.01024	102
apricots (F)	0.0235	0.0137	3	0.00235	24	0.00548	55
peaches (F)	0.0478	0.0194	3	0.00478	49	0.00776	78
grape – table (F)	0.0419	L/C	3 X 2	0.00838	84	L/C	0
strawberries (F)	0.012	0.0167	10	0.004	40	0.022267	223
radishes (ST)	L/C	L/C	0.1	L/C	0	L/C	0
turnips (ST)	0.0283	L/C	0.1	0.000094	1	L/C	0
onions (ST)	0.0222	0.0111	0.1	0.000074	1	0.000148	1
cucumbers (ST)	0.0152	L/C	0.1	0.000051	1	L/C	0
brassicae total (ST)	0.0586	0.0323	0.1	0.000195	2	0.000431	4
lettuce (ST)	0.0111	L/C	0.1	0.000037	0	L/C	0
spinach (ST)	0.0155	L/C	0.1	0.000052	1	L/C	0
parsley/endive (ST)	L/C	L/C	0.1	L/C	0	L/C	0
beans (with pods) (ST)	0.0249	L/C	0.1	0.000083	1	L/C	0
beans (without pods) (ST)	L/C	L/C	0.1	L/C	0	L/C	0
peas (with pods) (ST)	L/C	L/C	0.1	L/C	0	L/C	0
peas (without pods) (ST)	0.0505	0.0209	0.1	0.000168	2	0.000279	3
celery (ST)	0.023	L/C	0.1	0.000077	1	L/C	0
leeks (ST)	L/C	L/C	0.1	L/C	0	L/C	0
oilseeds – total (ST)	0.0608	0.0172	0.1	0.000203	2	0.000229	2
potatoes – total (ST)	0.3001	0.1003	0.1	0.001	10	0.001337	13
cereals – total (ST)	0.2356	0.0688	0.1	0.000785	8	0.000917	9
Total TMDI				0.023453	230	0.05518	552

NEDI calculations

Commodity (F) foliar use (ST) seed treatment	British diet children – 97.5th percentile (kg/d/person)	British diet infant – 97.5th percentile (kg/d/person)	proposed MRL (mg thiram/kg) multiplied by conversion factor	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	0.41	0.001815	18	0.00411	41
pears	0.0634	0.0256	0.41	0.000866	9	0.001399	14
apricots	0.0235	0.0137	0.78	0.000611	6	0.001425	14
peaches	0.0478	0.0194	0.78	0.001243	12	0.002018	20
grape – table	0.0419	L/C	0.85 x 2	0.002374	24	L/C	0

strawberries	0.012	0.0167	1.46	0.000584	6	0.003251	33
radishes (ST)	L/C	L/C	0.1	L/C	0	L/C	0
turnips (ST)	0.0283	L/C	0.1	0.000094	1	L/C	0
onions (ST)	0.0222	0.0111	0.1	0.000074	1	0.000148	1
cucumbers (ST)	0.0152	L/C	0.1	0.000051	1	L/C	0
brassicae total (ST)	0.0586	0.0323	0.1	0.000195	2	0.000431	4
lettuce (ST)	0.0111	L/C	0.1	0.000037	0	L/C	0
spinach (ST)	0.0155	L/C	0.1	0.000052	1	L/C	0
parsley/endive (ST)	L/C	L/C	0.1	L/C	0	L/C	0
beans (with pods) (ST)	0.0249	L/C	0.1	0.000083	1	L/C	0
beans (without pods) (ST)	L/C	L/C	0.1	L/C	0	L/C	0
peas (with pods) (ST)	L/C	L/C	0.1	L/C	0	L/C	0
peas (without pods) (ST)	0.0505	0.0209	0.1	0.000168	2	0.000279	3
celery (ST)	0.023	L/C	0.1	0.000077	1	L/C	0
leeks (ST)	L/C	L/C	0.1	L/C	0	L/C	0
oilseeds – total (ST)	0.0608	0.0172	0.1	0.000203	2	0.000229	2
potatoes – total (ST)	0.3001	0.1003	0.1	0.001	10	0.001337	13
cereals – total (ST)	0.2356	0.0688	0.1	0.000785	8	0.000917	9
Total TMDI				0.005364	54	0.008898	89

Conclusion :
The chronic exposure to residues of thiram arising from the uses included in the calculations is acceptable for consumers, included the most vulnerable ones.

B.7.11.2 Short term risk to consumers

The ARfD of thiram has been re-examined on the basis of new toxicological data and is now established at 0.6 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)

Only crops for which sufficient data on residues after foliar treatment are available have been assessed. It is not necessary to carry out a risk assessment for crops for which the intended use is a seed treatment because residues are below the LOD.
No processing factors are included in the figures.

Commodity	apples	pears	apricots	peaches	table grapes	strawberries
Median weight of the commodity unit (g)	112	150	39	110	>250	-

Residue level (proposed MRL) (mg/kg)	3	3	3	3	3x2	10
variability factor	7	7	7	7	5	1
consumption toddlers 97.5th percentile (g)	347	279	126	144	158	111
consumption adults 97.5th percentile (g)	347	274	137	228	190	203
NESTI UK toddlers (mg/kg bw)	0.21	0.24	0.074	0.17	0.33	0.077
NESTI UK toddlers (% ARfD)	35	41	12	28	54	13
NESTI UK adults (mg/kg bw)	0.043	0.050	0.015	0.038	0.081	0.029
NESTI UK adults (% ARfD)	7	8	3	6	14	5

Conclusion :
The acute exposure to residues of thiram arising from the intended foliar uses in apples, pears, peaches, apricots, table grapes and strawberries is acceptable for consumers, included the most vulnerable ones.

B.7.13 Proposed MRLs.

Based on the new data available and examined in this addendum, the following MRLs for thiram can be proposed:

- apples, pears, apricots, peaches, grapes : 3 mg/kg
- strawberries : 10 mg/kg
- other commodities of plant origin : 0.1* mg/kg

ANNEX B

Thiram

Appendix : Residue data from supervised trials

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 %		
Country:	France	Indoor/outdoor:	oudour
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A 1010 AN1 Riedheim (67330) France (N)	Apple trees Melrose	1978	2.070 1.948 2.014 1.954	1035 974 1007 977	200 200 200 200	11/07/01 17/07/01 26/07/01 02/08/01	72 74-75 75-77 77	Whole fruit	6.17 0.45 **0.32**	0 35 42	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline)
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 %		
Country:	France	Indoor/outdoor:	oudour
Content of active substance (g/kg or g/l) :	Thiram 80 % WG	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A 1011 BM1 Thorée les pins (72800) France (N)	Apple trees Golden Smoothee	1980	2.078 2.156 1.966 1.956	1039 1078 983 978	200 200 200 200	11/07/01 19/07/01 27/07/01 06/08/01	75 77 77-81 77-81	Whole fruit	0.87 0.33 **0.31**	0 36 41	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline)
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/G1 -FPAP G00W008R D-21787 Oberndorf	Apples Boskop	1) 1990 2) 28APR00 – 12MAY00 3) 25SEP00	2.071 2.166 1.975 1.971	1035 1083 988 985	200 200 200 200	22JUL00 31JUL00 71UG00 14AUG00	75 76 77 77-78	fruits fruits fruits fruits	3.95 0.72 **0.45** 0.43	0 35 **42** 42 washed	- - - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/G2	Apples	1) 1987	1.945	973	200	17JUL00	74-76	fruits	2.48	0	-
-FPAP	Golden	2) 20APR00	1.927	963	200	24JUL00	75-76	fruits	0.49	35	-
G00W004R	Delicious	– 08MAY00	1.991	995	200	01AUG00	77-78	fruits	**0.29**	**42**	-
D-76327		3) 20SEP00	1.982	991	200	08AUG00	78	fruits	0.31	42	-
Söllingen											

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pear trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1016 AN1	Pear trees	1) 1965	1.914	957	200	02/07/01	74	Whole fruit	0.73?	0	LOQ
Rottelsheim	Conference		2.078	1039	200	09/07/01	74		<LOQ	35	CS_2
(67170)			2.124	1062	200	16/07/01	75		**NDR**	**42**	0.050 mg/kg
France (N)			1.914	957	200	23/07/01	75-77				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pear trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1017 BM1 Thorée les Pins (72800) France (N)	Pear trees Conference	1) 1993	2.056 2.072 2.012 1.984	1028 1036 1006 992	200 200 200 200	22/08/01 02/07/01 11/07/01 19/07/01	75 77 81 81	Whole fruit	1.53 0.32 **0.35**	0 35 **43**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pear trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ G1-FPPE G00W010R D-21706 Drochtersen	Pears Bürgermeister	1) 1960 2) 021PR00-06MAY00 3)02OCT00	2.200 2.022 1.818 1.958	1100 1011 909 979	200 200 200 200	31JUL00 07AUG00 14AUG00 21AUG00	74 75 76 78	fruits fruits fruits fruits	1.95 0.69 0.53 **0.30**	0 28 35 **42**	- - - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	
Crop/crop group:	Pears	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ G2-FPPE G00W010R D-76327 Söllingen	Pears Boss	1) 1976 2) 08APR00-01MAY00 3) 11SEP00	1.961 1.972 1.978 2.055	981 986 989 1028	200 200 200 200	10JUL00 17JUL00 24JUL00 31JUL00	75-76 76 77 78	fruits fruits fruits fruits	3.17 0.25 0.11 **< LOQ**	0 28 35 **42**	- - - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1045 SA1 Labatut (40300) France (S)	Apple trees Royal Gala	1) 1990	2.088 1.920 2.176 1.978	1044 960 1088 989	200 200 200 200	15/03/01 23/03/01 02/04/01 12/04/01	01 56 61 67	Whole fruit	NDR NDR	130	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1012 DR1	Apple trees	1) 1996	2.084	1042	200	11/06/01	73	Whole fruit	4.53	0	LOQ
Monteton	Royal Gala		2.056	1028	200	18/06/01	74		0.38	35	CS_2
(47120)			2.150	1075	200	26/06/01	74		**0.33**	**43**	0.050 mg/kg
France (S)			1.972	986	200	06/07/01	74	Skinned fruit	43	43	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1012 DR1	Apple trees	1) 1996	2.084	1042	200	11/06/01	73	Whole fruit	4.53	0	LOQ
Monteton	Royal Gala		2.056	1028	200	18/06/01	74		0.38	35	CS_2
(47120)			2.150	1075	200	26/06/01	74		**0.33**	**43**	0.050 mg/kg
France (S)			1.972	986	200	06/07/01	74	Skinned fruit	43	43	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apple trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Italy	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1015IT1	Apple trees	1) 11/1985	2.190	1095	200	13/08/01	69-71	Whole fruit	1.52	0	LOQ
Contrapo	Imperatore		2.096	1048	200	20/08/01	69-71		0.35	34	CS_2
(44032)			2.284	1142	200	27/08/01	75		**0.31**	**41**	0.050 mg/kg
Italy			2.144	1072	200	04/09/01	75				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apples	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ S1-FPAP S00W007R	Apples	1) 1988	2.013	1006	200	6JUL00	75	fruits	10.6	0	6.2 mm diameter of fruits-
E-03400 Villena	Royal Gala	2) 15MAR00 – 10APR00	2.167 1.917	1083 958	200 200	14JUL00 21JUL00	76 76	fruits fruits	4.84 **3.36**	35 **42**	Unwashed washed
		3) 11SEP00	2.075	1038	200	31JUL00	76	fruits	2.57	42	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apples TREES	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1013 ES1	Apple trees	1) 1997	1.924	962	200	05/06/01	74	Whole fruit	6.12	0	LOQ
Sudanell	Obrogala		2.084	1042	200	14/06/01	74		0.43	35	CS_2
(25173)			2.090	1045	200	22/06/01	75		**0.39**	**42**	0.050 mg/kg
Spain			2.102	1051	200	29/06/01	77				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apples trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1013 ES1 Sudanell (25173) Spain	Apple trees Obrogala	1) 1997	1.924 2.084 2.090 2.102	962 1042 1045 1051	200 200 200 200	05/06/01 14/06/01 22/06/01 29/06/01	74 74 75 77	Whole fruit	6.12 0.43 **0.39**	0 35 **42**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apples trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1014 ES1	Apple trees	1) 1985	2.172	1086	200	05/07/01	74	Whole fruit	2.18	0	LOCQ
Pals	Golden		2.290	1145	200	13/07/01	75		1.03	32	CS_2
(17256)			2.248	1124	200	23/07/01	75-77		**0.57**	**42**	0.050 mg/kg
Spain			1.984	992	200	30/07/01	75-77				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ F1-FPPE F00W005R F-66200 Elne France (S)	Pears Williams	1) 1992 2) 17MAR00 – 10APR00 3)01AUG00	1.980 1.864 2.024 1.964	990 932 1012 982	200 200 200 200	27MAY00 05JUN00 13JUN00 20JUN00	72 74 75 75	fruits fruits fruits fruits	3.72 0.94 0.66 **0.41**	0 24 34 **42**	- - - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1018 DR1	Pear trees	1) 1996	1.980	990	200	02/06/01	72	whole	7.09	0	LOQ
Monteton	Williams		1.882	941	200	10/06/01	73	fruit	0.28	35	CS_2
(47120)			1.930	965	200	18/06/01	74		**0.11**	**42**	0.050 mg/kg
France (S)			2.044	1022	200	26/06/01	74				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1046 SA1 Sault de Navailles (64300) France (S)	Pear trees Williams	1) 1980	2.012 1.972 2.066 2.144	1006 986 1033 1072	200 200 200 200	05/03/01 15/03/01 23/03/01 02/04/01	01 73 74 74	whole fruit	NDR NDR	129	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Italy	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1021IT1	Pear trees	1) 1960	1.918	959	200	23/06/01	75	Whole fruit	3.37	0	LOQ
Contrapo	Abate		2.054	1027	200	01/07/01	75		0.34	35	CS_2
(44032)			2.100	1050	200	09/07/01	75		**0.31**	**42**	0.050 mg/kg
Italy			2.192	1096	200	17/07/01	75				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/S1 -FPPE S00W009R E-03400 Villena	Pears Blanquilla	1) 1992 2) 12MAR00-15APR00 3)15SEP00	2.000 2.011 1.929 2.005	1000 1005 964 1003	200 200 200 200	6JUL00 14JUL00 21JUL00 31JUL00	75 76 76 76	fruits fruits fruits fruits	11.7 3.36 3.73 **3.01**	0 28 35 **42**	- - - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1019 ES1	Pear trees	1) 1992	1.952	976	200	05/06/01	74	Whole fruit	3.84	0	LOQ
Sudanell	Conference		2.062	1031	200	14/06/01	74		0.55	35	CS_2
(25173)			2.154	1077	200	22/06/01	75		**0.42**	**42**	0.050 mg/kg
Spain			2.188	1094	200	29/06/01	77	Skinned fruit	NDR	42	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Pears trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1020 ES1	Pear trees	1) 1994	2.320	1160	200	13/06/01	73-74	Whole fruit	4.63	0	LOQ
Garrigas	Gran		2.248	1124	200	21/08/01	74		1.15	35	CS_2
(17476)	Champion		2.064	1032	200	02/07/01	74-75		**0.57**	**42**	0.050 mg/kg
Spain			2.112	1056	200	09/07/01	75				

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR : No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apricot trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1026 BD1 Pont de l'Isère(26600) France	Apricot trees Bergeron	1) 1985	2.034 2.096 2086	1017 1048 1043	200 200 200	16/05/01 23/05/01 01/06/01	77 77 77	whole fruit	7.98 1.72 **0.85**	0 35 **41**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apricot trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1027 PA1 Fuente Palmera (14110) Spain	Apricot trees Palabras	1) 1996	2.020 2.020 2.108	1010 1010 1054	200 200 200	27/03/01 03/04/01 10/04/01	69 71 73	whole fruit	2.33 2.27 **1.40**	0 35 **42**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Apricots	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/S1 -FPAC S00W003R E-46022 Beniganim	Apricots Tadeo	1) n.a. 2) 20MAR00-27MAR00 3)14JUN00	2.000 1.983 1.977	1000 991 989	200 200 200	18APR00 26APR00 03MAY00	75 75 76	fruits fruits fruits	13.7 4.18 **1.74**	0 35 **42**	- - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peach trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1022BD1 Pont de l'Isère (26600) France	Peach trees Spring lady	1) 1992	1.910 2.040 2.052	955 1020 1026	200 200 200	26/04/01 07/05/01 16/05/01	72 73 75	Whole fruit	11.97 0.54 **0.49**	0 34 **40**	LOQ CS_2 0.050 mg/kg
								Skinned fruit	<LOQ	40	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peaches	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	76.96 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/GR1-FPPC	Peaches	1) 1985	1.992	996	200	15JUN00	75	fruits	11.8	0	-
GR00W001R	Red Fortuna	2) 15APR00-01MAY00	2.024	1012	200	25JUN00	76	fruits	2.69	35	-
58200 Trifili		3)15AUG00	1.960	980	200	04JUL00	78	fruits	**1.34**	**42**	-

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peach trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Greece	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1024 GR1 Kavasila-Imathia (59100) Greece	Peach trees Andross	1) 1993	2.354 2.200 2.276	1177 1100 1138	200 200 200	04/03/01 14/03/01 23/03/01	56 65 67	Whole fruit	NDR	141	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peach trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Italy	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1025 IT1 Viguzzolo (15058) Italy	Peach trees Glo Haven	1) 1994	2.066 1.994 2.106	1033 997 1008	200 200 200	12/06/01 19/06/01 28/08/01	72 72 73	Whole fruit	9.13 095 **0.71**	0 34 **41**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peaches	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ S1-FPPC S00W011R E-46015 Catadau	Peaches Fedenca	1) 1991 2) 20FEB00-15MAR00 3)29JUN00	2.067 2.111 2.054	1034 1055 1027	200 200 200	02MAY00 11MAY00 18MAY00	75 76 77	fruits fruits fruits	9.96 2.39 **0.62**	0 35 **42**	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peaches	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Germany	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ S2-FPPC S00W012R E03630 Sax	Peaches Zaragozano	1) 1978 2) 15 APR00 – 25APR00 3) 10SEP00	2.067 1.906 1872	1034 953 936	200 200 200	10JUL00 17JUL00 26JUL00	75 75 75	fruits fruits fruits	5.09 2.42 **1.74**	0 36 **43**	- - -

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peach trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1047 PA1 Lora del Rio (41440) Spain	Peach trees Early- Maycrest	1) 20/30/99	1.762 1.866 1.900	881 933 950	200 200 200	27/03/01 03/04/01 10/04/01	71 71 73-75	Whole fruit	24.3 0.80 0.38	0 35 42	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Peach trees	Producer of commercial product:	UCB Chemicals
Commercial product (name):	THIRAM 80 WG		
Country:	Spain	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1023 ES1 Pals (17256) Spain	Peach trees Maria Blanca	1) 1991	2.140 2.230 2.216	1070 1115 1108	200 200 200	08/05/01 18/05/01 28/05/01	73 73-75 73-75	Whole fruit	10.84 3.55 **0.58**	0 35 **42**	LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Grapes	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan ultra dispersible		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
R7059 Pont de L'Isère (26600)	Vine Syrah	1) 1974	3.274 3.194 3.472	340.7 332.3 361.3	960 960 960	18/06/97 02/07/97 11/08/97	71 79 85+	fruit fruit fruit	4.90 1.99 1.20	0 28 35	Analytical method : Keppel Procedure LOD : 0.025 mg/kg LOQ : 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Grapes	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan ultra dispersible		
Country:	France	Indoor/outdoor:	outdoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
R7059 Duras (47120)	Vine Merlot	1) 1976	3.245 3.248 3.226	337.5 337.9 335.6	960 960 960	06/06/97 24/06/97 01/08/97	73 78 85	fruit fruit fruit	2.23 0.83 0.63	0 28 34	Analytical method : Keppel Procedure LOD : 0.025 mg/kg LOQ : 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Strawberry	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan ultra dispersible		
Country:	France	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
98053/F1-FGST Soings en Sologne 41230 France	Mara des Bois	1) 31/10/97 2) mid JULY 3) mid AUGUST	2	1.000	200	20/07/98 30/07/98 09/08/98	Edible fruit	Stem removed	5.70 4.80 3.70	0 3 7	Analytical method : Thier-Nyanzi-Shwack LOD : 0.012 mg/kg LOQ : 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Strawberry	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan ultra dispersible		
Country:	France	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
98053/F1-FGST – Plot 1 Fontaine en Sologne 41230 France	Selva	1) 20/04/97 2) mid JUNE 3) JULY	2	1.000	200	23/06/98 03/07/98 13/07/98	Edible fruit	Stem removed	4.40 3.70 1.80	0 3 7	Analytical method : HPLC specific method LOD : 0.06 mg/kg LOQ : 0.20 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Strawberry	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan Granuflo ®		
Country:	Spain	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
S97020R 46650 Canals Spain	Strawberry Erwine	1) 24/09/97 14/10/97	1.6	600	250	24/20/97 05/11/97 17/11/97	fruits	fruits	9.8 11.3 6.8	0 3 7	Very slow development of the fruits due to the late period of cultivation

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	Strawberry	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thianosan Ultra Dispersible		
Country:	Spain	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
S98018R-plot 2 Algemesi 46024 Spain	Osogrande	1) 24/10/97 2) 12/97-06/98 3) up to June 98	2	1.000	200	28/04/98 08/05/98 19/05/98	Edible fruit	Stem removed	1.70 1.50 0.89	0 3 7	Analytical method : Thier-Nyanzi-Shwack LOD: 0.008 mg/kg LOQ : 0.030 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	lettuce	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	Germany	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ F1-FGLE F00W028R F-66620 Brouilla	Letuce Battavia	1) 310CT00	3.200	1000	320	(1) 27NOV00	**16**	heads	**1.11**	43	reversed decline study
		2) none	3.153	985	320	(1) 13DEC00	43	heads	43.9	27	
		3) 09JAN01	3.110	972	320	(1) 19DEC00	45	heads	79.8	21	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	lettuce	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	Germany	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ G1-FGLE G00W012R D-21037 Brouilla	Letuce Battavia	1) 12SEP00	3.322	1038	320	(1) 13OCT00	41	heads	33.3	21 28 42	reversed decline study
		2) none	3.170	990	320	(1) 06OCT00	**18**	heads	**10.1**		
		3) 03NOV00	3.261	1019	320	(1) 22SEP00	**13**	heads	**< LOQ**		

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	head lettuce	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	Germany	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ G1-FGLE G00W013R D-76227 Karlsruhe	Letuce Maserati	1) 27SEP00	3.383	1057	320	(1) 26OCT00	43	heads	34.5	42	reversed decline study
		2) none	3.109	971	320	(1) 09NOV00	44	heads	96.2	28	
		3) 07DEC00	3.230	1010	320	(1) 16NOV00	48	heads	102.0	21	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	lettuce	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	Germany	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	81.20 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
20003003/ S1-FGLE S00W039R E-46820 Anna	Letuce Cabezo	1) 17NOV00	3.275	1008	320	(1) 13DEC00	33	heads	1.04	42	reversed decline study
		2) none	3.399	1047	320	(1) 27DEC00	35	heads	5.35	28	
		3) 24JAN01	3.275	1008	320	(1) 03JAN01	43	heads	7.33	21	

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	lettuces	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	France	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1028 OB1 Ploudalm-zeau (29830) France	Lettuces Prestine	1) 05/04/01 3)22/05/01	3.280 3.290 3.306	1025 1028 1033	320 320 320	10/04/01 17/04/01 01/05/01	**15** **18** **19**	Lettuces	**< LOQ** **NDR** **1.19**	42 35 21	reverse decline study LOQ CS_2 0.050 mg/kg
A1028 BM1 Cheviré le Rouge (49150) France	Lettuces Sensaïe	1) 12/02/01 3)26/04/01	3.091 3.306 3.053	966 1033 954	320 320 320	16/03/01 23/03/01 06/04/01	41 43 47	Lettuces	0.23 0.34 1.27	41 34 20	reverse decline study LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR No detectable residue

FIELD TRIALS, CROP RESIDUE SUMMARY

Active ingredient (common name):	Thiram	Formulation (e.g. WP):	WG
Crop/crop group:	lettuces	Producer of commercial product:	UCB Chemicals
Commercial product (name):	Thiram 80 WG		
Country:	France	Indoor/outdoor:	indoor
Content of active substance (g/kg or g/l) :	Thiram 80 %	Residues calculated as:	thiram (CS_2 method)
		Other active substance in the formulation (common name and content):	

1	2	3	4			5	6	7	8	9	10
Report No./ Location	Commodity/ Variety	Date of 1.Sowing or Planting 2.Flowering 3.Harvest	Application rate per treatment			Dates of treatment(s) or no. of treat-ment(s) and last date	Growth stage at last treatment or date	Portion analyzed	Residues mg/kg thiram	PHI (days)	Remarks
			kg a.s./ha	Water (l/ha)	g a.s./ hl						
A1028 TL1 St. Jory (31790) France	Lettuces Tibet	1) 10/04/01 3)01/06/01	3.152 3.043 3.046	985 951 952	320 320 320	20/04/01 30/04/01 11/05/01	**16-18** **19** **19-41**	Lettuces	**< LOQ** **< LOQ** **1.40**	42 32 21	reverse decline study LOQ CS_2 0.050 mg/kg
A1028 ES1 Sant Joan Despi (08970) France	Lettuces Maraville	1) 27/02/01 3)12/04/01	3.197 3.261 3.254	999 1019 1017	320 320 320	02/03/01 09/03/01 23/03/01	43 43-45 47	Lettuces	NDR < LOQ 2.81	41 34 20	reverse decline study LOQ CS_2 0.050 mg/kg

Remarks : (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, underline
(e) Remarks may include : Climatic conditions ; Reference to analytical method and information on which metabolites are inclluded
(f) Growth stage (BBCH)
NDR No detectable residue