

EUROPEAN COMMISSION
HEALTH & CONSUMER PROTECTION DIRECTORATE-GENERAL

Directorate D - Food Safety: Production and distribution chain
Unit D.3 - Chemicals, contaminants and pesticides

Tolyfluanid
SANCO/10445/2005 final
23 September 2005

Review report for the active substance tolyfluanid

finalised in the Standing Committee on the Food Chain and Animal Health at its meeting on
23 September 2005
in view of the inclusion of tolyfluanid in Annex I of Directive 91/414/EEC

1. Procedure followed for the re-evaluation process

This review report has been established as a result of the re-evaluation of tolyfluanid, made in the context of the work programme for review of existing active substances provided for in Article 8(2) of Directive 91/414/EEC concerning the placing of plant protection products on the market, with a view to the possible inclusion of this substance in Annex I to the Directive.

Commission Regulation (EC) No 451/2000⁽¹⁾ laying down the detailed rules for the implementation of the second and third stages of the programme of work referred to in Article 8(2) of Council Directive 91/414/EEC, as last amended by Regulation (EC) No 1490/2002⁽²⁾, has laid down the detailed rules on the procedure according to which the re-evaluation has to be carried out. Tolyfluanid is one of the existing active substances covered by this Regulation.

In accordance with the provisions of Article 4 of Regulation (EC) No 451/2000, Bayer AG notified to the Commission of their wish to secure the inclusion of the active substance tolyfluanid in Annex I to the Directive.

In accordance with the provisions of Article 5 of Regulation (EC) No 451/2000, the Commission, designated Finland as rapporteur Member State to carry out the assessment of tolyfluanid on the basis of the dossiers submitted by the notifiers. In Regulation (EC) No 703/2001³ the Commission specified furthermore that the deadline for the notifiers with regard to the submission to the rapporteur Member States of the dossiers required under Article 6(2) of Regulation (EC) No 451/2000, as well as for other parties with regard to further technical and scientific information was 30 April 2002.

Bayer AG submitted by the deadline a dossier to the rapporteur Member State which did not contain substantial data gaps, taking into account the supported uses. Bayer AG was the only data submitter.

¹ OJ No L 55, 29.02.2000, p.25.

² OJ No L 224, 21.8.2002, p.23.

³ OJ No L 98, 7.4.2001, p. 6.

In accordance with the provisions of Article 8(1) of Regulation (EC) No 451/2000, Finland submitted on 13 June 2003 to the EFSA the report of their examination, hereafter referred to as the draft assessment report, including, as required, a recommendation concerning the possible inclusion of tolylfluanid in Annex I to the Directive. Moreover, in accordance with the provisions of Article 8(2) of Regulation (EC) 451/2000, the Commission and the Member States received also the summary dossier on tolylfluanid from Bayer AG, on 30 July 2003.

In accordance with the provisions of Article 8 of Regulation (EC) No 451/2000, the EFSA organised the consultation on the draft assessment report by all the Member States as well as by Bayer AG being the main data submitter, on 30 July 2003 by making it available.

The EFSA organised an intensive consultation of technical experts from a certain number of Member States, to review the draft assessment report and the comments received thereon (peer review).

In accordance with the provisions of Article 8 (7) of Regulation 451/2000 the EFSA sent to the Commission its conclusion on the risk assessment [Conclusions regarding the peer review of the pesticide risk assessment of the active substance tolylfluanid⁴]. This conclusion refers to background document A (draft assessment report) and background document B (EFSA peer review report).

In accordance with the provisions of Article 8 (7) of Regulation (EC) No 451/2000, the Commission referred on 23 September 2005 a draft review report to the Standing Committee on the Food Chain and Animal Health, for final examination. The draft review report was finalised in the meeting of the Standing Committee on 23 September 2005.

The present review report contains the conclusions of the final examination by the Standing Committee. Given the importance of the conclusion of the EFSA, and the comments and clarifications submitted after the conclusion of the EFSA (background document C), these documents are also considered to be part of this review report.

2. Purposes of this review report

This review report, including the background documents and appendices thereto, has been developed and finalised in support of the Directive 2006/6/EC concerning the inclusion of tolylfluanid in Annex I to Directive 91/414/EEC, and to assist the Member States in decisions on individual plant protection products containing tolylfluanid they have to take in accordance with the provisions of that Directive, and in particular the provisions of article 4(1) and the uniform principles laid down in Annex VI.

This review report provides also for the evaluation required under Section A.2.(b) of the above mentioned uniform principles, as well as under several specific sections of part B of these principles. In these sections it is provided that Member States, in evaluating applications and granting authorisations, shall take into account the information concerning the active substance in Annex II of the directive, submitted for the purpose of inclusion of the active substance in Annex I, as well as the result of the evaluation of those data.

⁴ *EFSA Scientific Report* (2005) 29, 1-76

In accordance with the provisions of Article 8(9) of Regulation (EC) No 451/2000, Member States will keep available or make available this review report for consultation by any interested parties or will make it available to them on their specific request.

The information in this review report is, at least partly, based on information which is confidential and/or protected under the provisions of Directive 91/414/EEC. It is therefore recommended that this review report would not be accepted to support any registration outside the context of Directive 91/414/EEC, e.g. in third countries, for which the applicant has not demonstrated to have regulatory access to the information on which this review report is based.

3. Overall conclusion in the context of Directive 91/414/EEC

The overall conclusion from the evaluation is that it may be expected that plant protection products containing tolylfluanid will fulfil the safety requirements laid down in Article 5(1)(a) and (b) of Directive 91/414/EEC. This conclusion is however subject to compliance with the particular requirements in sections 4, 5, 6 and 7 of this report, as well as to the implementation of the provisions of Article 4(1) and the uniform principles laid down in Annex VI of Directive 91/414/EEC, for each tolylfluanid containing plant protection product for which Member States will grant or review the authorisation.

Furthermore, these conclusions were reached within the framework of the uses which were proposed and supported by the main data submitter and mentioned in the list of uses supported by available data (attached as Appendix II to this review report).

Extension of the use pattern beyond those described above will require an evaluation at Member State level in order to establish whether the proposed extensions of use can satisfy the requirements of Article 4(1) and of the uniform principles laid down in Annex VI of Directive 91/414/EEC.

The following reference values have been finalised as part of this re-evaluation:

ADI:	0.1 mg/kg
ArfD:	0.25 mg/kg bw/day
AOEL:	0.3 mg/kg bw/day

With particular regard to residues, the review has established that the residues arising from the proposed uses, consequent on application consistent with good plant protection practice, have no harmful effects on human or animal health. The Theoretical Maximum Daily Intake (TMDI; excluding water and products of animal origin) for a 60 kg adult is 28 % of the Acceptable Daily Intake (ADI), based on the FAO/WHO European Diet (August 1994).

Additional intake from water and products of animal origin are not expected to give rise to intake problems.

The NESTI calculations resulted in 0 – 25 % of the ARfD for adults and 1 – 100 % of the ARfD for toddlers. It was concluded that a short term intake of residues of tolylfluanid and DMST would be in acceptable levels.

The review has identified several acceptable exposure scenarios for operators, workers and bystanders, which require however to be confirmed for each plant protection product in accordance with the relevant sections of the above mentioned uniform principles.

The review has also concluded that under the proposed and supported conditions of use there are no unacceptable effects on the environment, as provided for in Article 4 (1) (b) (iv) and (v) of Directive 91/414/EEC, provided that certain conditions are taken into account as detailed in section 6 of this report.

4. Identity and Physical/chemical properties

The main identity and the physical/chemical properties of tolylfluanid are given in Appendix I.

The active substance shall comply with the FAO specification and there seem not to be reasons for deviating from that specification; the FAO specification is given in Appendix I of this report.

The review has established that for the active substance notified by the main data submitter none of the manufacturing impurities considered are, on the basis of information currently available, of toxicological or environmental concern.

5. Endpoints and related information

In order to facilitate Member States, in granting or reviewing authorisations, to apply adequately the provisions of Article 4(1) of Directive 91/414/EEC and the uniform principles laid down in Annex VI of that Directive, the most important endpoints were identified during the re-evaluation process. These endpoints are listed in the conclusion of the EFSA, and at section 3 of this report.

6. Particular conditions to be taken into account on short term basis by Member States in relation to the granting of authorisations of plant protection products containing tolylfluanid

On the basis of the proposed and supported uses (as listed in Appendix II), the following particular issues have been identified as requiring particular and short term attention from all Member States, in the framework of any authorisations to be granted, varied or withdrawn, as appropriate:

In this overall assessment Member States:

- must pay particular attention to the protection of herbivorous mammals, aquatic organisms and non-target arthropods (other than bees). Conditions of authorisation should include risk mitigation measures, where appropriate,
- must pay particular attention to the residues in food and evaluate the dietary exposure of consumers.

The concerned Member States shall request the submission of further studies to confirm the risk assessment for herbivorous mammals (long term risk). They shall ensure that the notifiers at whose request tolylfluanid has been included in this Annex provide such studies to the Commission within 2 years from the entry into force of this Directive.

7. List of studies to be generated

No further studies were identified which were at this stage considered necessary in relation to the inclusion of tolylfluanid in Annex I under the current inclusion conditions.

Some endpoints however may require the generation or submission of additional studies to be submitted to the Member States in order to ensure authorisations for use under certain conditions. The list of studies to be generated, still ongoing or available but not peer reviewed can be found in the relevant part of the EFSA Scientific report (page 28).

8. Information on studies with claimed data protection

For information of any interested parties, the rapporteur Member State will keep available a document which gives information about the studies for which the main data submitter has claimed data protection and which during the re-evaluation process were considered as essential with a view to annex I inclusion. This information is only given to facilitate the operation of the provisions of Article 13 of Directive 91/414/EEC in the Member States. It is based on the best information available but it does not prejudice any rights or obligations of Member States or operators with regard to its uses in the implementation of the provisions of Article 13 of the Directive 91/414/EEC and neither does it commit the Commission.

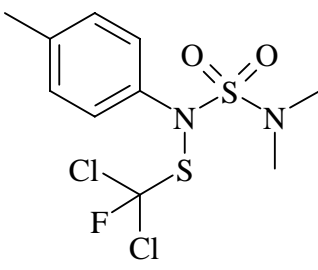
9. Updating of this review report

The information in this report may require to be updated from time to time in order to take account of technical and scientific developments as well as of the results of the examination of any information referred to the Commission in the framework of Articles 7, 10 or 11 of Directive 91/414/EEC. Any such adaptation will be finalised in the Standing Committee on the Food Chain and Animal Health, in connection with any amendment of the inclusion conditions for tolylfluanid in Annex I of the Directive.

APPENDIX I

Identity, physical and chemical properties

TOLYLFLUANID

Common name (ISO)	Tolylfluamid
Chemical name (IUPAC)	<i>N</i> -dichlorofluoromethylthio- <i>N,N</i> -dimethyl- <i>N</i> - <i>p</i> -tolylsulfamide
Chemical name (CA)	Methanesulfenamide, 1,1-dichloro- <i>N</i> -[(dimethylamino)sulfonyl]-1-fluoro- <i>N</i> -(4-methylphenyl)-
CIPAC No	275
CAS No	731-27-1
EEC No	EINECS: 211-986-9
FAO SPECIFICATION	960 ± 20 g/kg AGP:CP/332 (1995)
Minimum purity	min. 960 g/kg
Molecular formula	C ₁₀ H ₁₃ Cl ₂ FN ₂ O ₂ S ₂
Molecular mass	347.3
Structural formula	 <p>The chemical structure of Tolylfluamid is shown. It consists of a central sulfur atom double-bonded to two oxygen atoms. This sulfur atom is also bonded to a nitrogen atom, which is further bonded to a dimethylamino group (N(CH₃)₂). The central sulfur atom is also bonded to another sulfur atom, which is in turn bonded to a 1,1-dichloro-2-fluoroethyl group (CHCl₂CF₂). The central sulfur atom is also bonded to a nitrogen atom, which is further bonded to a 4-methylphenyl group (a benzene ring with a methyl group at the para position).</p>

APPENDIX II

List of uses supported by available data

TOLYLFLUANID

Crop and/or situation (a)	Member State or Country	Product name	F G or I (b)	Pests or Group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks: (m)
					Type (d-f)	Conc. of as (i)	method kind (f-h)	growth stage & season (j)	number min max (k)	interval between applications (min)	kg as/hl min max	water l/ha min max	kg as/ha min max		
Apples/Pears ¹	*NE SE	Euparen M	F F	VENTIN VENTPI	WG	50	SPI / SRU	/	7 3	7 – 14 7 - 14	0,15 – 0,2 -	max. 1500 ^a max. 1500 ^a	- 1.125 - 1.5	7 3	*NE SE
Grapes ¹	*NE SE	Euparen M	F F	BOTRCI PLASVI	WG	50	SPI / SRU	/	8 3	10 – 14 8 – 19	0,225 – 0,4 -	max. 1600 ^b 100 – 1000	up to 1.8 up to 2.0	35 21	
Strawberries ¹	NE SE	Euparen M	F F	BOTRCI SPHRMA	WG	50	SPI	/	3 3	8 – 12 7 – 10	/	300 – 2000 800 – 1000	2.5 1.25	7 3	
Rasp- and Blackberries	NE	Euparen M	F	BOTRCI SPHRMA	WG	50	SPI	/	4	8 – 10	/	500 – 1500	1.7	14	

Crop and/or situation (a)	Member State or Country	Product name	F G or I (b)	Pests or Group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks: (m)
					Type (d-f)	Conc. of as (i)	method kind (f-h)	growth stage & season (j)	number min max (k)	interval between applications (min)	kg as/hl min max	water l/ha min max	kg as/ha min max		
			F												
Currants / Gooseberries	NE	Euparen M	F F	BOTRCI SPHRMA	WG	50	SPI	/	2	14	/	500 – 1000	1.25	14	
Tomatoes	NE SE -	Euparen M	F F G	ALTESO BOTRCI PHYTIN	WG	50	SPI	/	6 3 – 4 4 – 6	8 – 10 7 – 10 8 – 10	0,2 0,3 0,2	300 – 1200 1000 max. 1500 ^c	up to 1.2 up to 1.5 up to 1.5	3 3 3	
Peppers	-	Euparen M	G	ALTESO BOTRCI	WG	50	SPI	/	3	7	0,2	max. 1500 ^d	1.3	3	
Cucumber / Zucchini	NE -	Euparen M	F G	PSECU SPHRFU	WG	50	SPI	/	6 6	10 8 – 11	0,2 0,2	600 max. 1500 ^e	0.6 up to 1.5	3 3	
Melons	NE SE	Euparen M	F F	ALTECU PSECU	WG	50	SPI	/	3 3	10 10	/ 300	300 300	1.25 1.25	14 14	
Head Lettuce	NE SE	Euparen M	F F	BREMLA BOTRCI	WG	50	SPI	/	6 3	5 10 – 17	/ 600 1000	600 1000	0.6 1.0	21 7	

Crop and/or situation (a)	Member State or Country	Product name	F G or I (b)	Pests or Group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks: (m)
					Type (d-f)	Conc. of as (i)	method kind (f-h)	growth stage & season (j)	number min max (k)	interval between applications (min)	kg as/hl min max	water l/ha min max	kg as/ha min max		
Leeks	NE	Euparen M	F	PHYTPO	WG	50	SPI	/	5	14	/	600	1.25	21	

Crop and/or situation (a)	Member State or Country	Product name	F G or I (b)	Pests or Group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks: (m)
					Type (d-f)	Conc. of as (i)	method kind (f-h)	growth stage & season (j)	number min max (k)	interval between applications (min)	kg as/hl min max	water l/ha min max	kg as/ha min max		
Hops	*NE	Euparen M	F	BOTRCI PSPEHU	WG	50	SPI / SRU	/	6	8 – 24	0.2 -	1000 - 3000	up to 3.0	14	

- Remarks:**
- (a) For crops, the EU and Codex classifications (both) should be used; where relevant, the use situation should be described (*e.g.* fumigation of a structure)
 - (b) Outdoor or field use (F), glasshouse application (G) or indoor application (I)
 - (c) *e.g.* biting and suckling insects, soil born insects, foliar fungi, weeds
 - (d) *e.g.* wettable powder (WP), emulsifiable concentrate (EC), granule (GR)
 - (e) GCPF Codes - GIFAP Technical Monograph No 2, 1989
 - (f) All abbreviations used must be explained
 - (g) Method, *e.g.* high volume spraying, low volume spraying, spreading, dusting, drench
 - (h) Kind, *e.g.* overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated
 - (i) g/kg or g/l
 - (j) Growth stage at last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application
 - (k) The minimum and maximum number of application possible under practical conditions of use must be provided
 - (l) PHI - minimum pre-harvest interval
 - (m) Remarks may include: Extent of use/economic importance/restrictions

