

Appendix III: List of studies

Data protection is claimed by the applicant in accordance with Article 12.1(c) (i) and (ii) of Council Directive 98/8/EC for all study reports marked “Y” in the “Data Protection Claimed” column of the table below. These claims are based on information from the applicant. It is assumed that the relevant studies are not already protected in any other Member State of the European Union under existing national rules relating to biocidal products. It was however not possible to confirm the accuracy of this information.

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Aldana L González de Mejía E., Craigmill A., Tsutsumi V., Armendariz-Borunda J., Panduro A., Rincón A.R.	IIA, 3.5 IIB, 4.5.1	1998	Cypermethrin increases apo A-1 and apo B mRNA but not hyperlipidemia in rats. Toxicology Letters 95: 31-39.		
Amer S.M., Aboul-ela E.I	IIA, 3.6.2	1985	Cytogenetic effects of pesticides. III. Induction of micronuclei in mouse bone marrow by the insecticides cypermethrin and rotenone. Mutat. Res. 155: 135-142.		
Amer S.M., Ibrahim A.A., el-Sherbeny K.M.	IIA, 3.6.1, 3.6.2	1993	Induction of chromosomal aberrations and sister chromatid exchange in vivo and in vitro by the insecticide cypermethrin. J. Appl. Toxicol. 13: 341-345.		
Barnes S.	IIA, 4.1.1.2 (IIIA, 7.1.2.1.2)	2005	Cypermethrin cis:trans/40:60 Evaluation of ultimate anaerobic biodegradability by measurement of biogas production Huntingdon Life Sciences Ltd., report no. HZL 010/053287 GLP, unpublished	Yes (Exist./First)	Arysta
Bates, M.	IIA, 1.3 (IIIA, 3.1)	2002a	Cypermethrin cis:trans 40:60 (purified active substance) : Evaluation of the physico-chemical properties Covance Laboratories Ltd, report no. 40/30-D2149 (CYP/C66) Chimac-Agriphar S.A., document no. KIIA, 2.0/01 GLP, unpublished	Yes (Exist./First)	Arysta

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Bates, M.	IIA, 1.3, IIB, 6 (IIIA,3.11)	2002b	Cypermethrin cis:trans 40:60 (technical active substance) : Evaluation of the physico-chemical properties Covance Laboratories Ltd, report no. 40/33-D2149 (CYP/C63) Chimac-Agriphar S.A., document no. KIIA, 2.0/02 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 1.4.1 (IIIA,4.1(01)) → Confidential Data	2002	Cypermethrin cis:trans 40:60 technical active substance : five batch analysis; ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 1.11/01 GLP, unpublished.	Yes (Exist./First)	Arysta
██████████	IIA, 1.4.1 (IIIA,4.1(02)) → Confidential Data	2003	Cypermethrin cis:trans/40:60 (technical active substance) : Five batch analysis – Supplementary analyses ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 1.11/02 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 1.4.1 (IIIA,4.1(03)) → Confidential Data	2004	Cypermethrin cis:trans/40:60 (technical active substance) : Validation of methods of analysis for the manufacturing impurities <confidential> ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 1.11/03 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 3.2.	1980	Acute oral LD5 in the rat of CGA 55186 technical. ██████████ ██████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
Batiste-Alentorn M., Xamena N., Velázquez A., Creus A., Marcos R	IIA, 3.6.2	1986	Mutagenicity testing of the pyrethroid insecticide cypermethrin in Drosophila. Mutagenesis 1: 343-346.	No	

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Bealing, D.	IIA, 4.2.1 (IIIA,7.4.1.4)	2002	Cypermethrin – Determination of inhibition of respiration of activated sludge Covance Laboratories Ltd., report no. 40/46 (CYP/T323) Chimac-Agriphar S.A., document no. KII A, 8.7/01 GLP, unpublished	Yes (Exist./First)	Arysta
██████████ ██████████ ██████████	IIB, 4.3.1.1 (IIB, 6.2 (01))	2005b	Primary skin irritation/corrosion study with Cypermethrin 100 g/l EW in the rabbit (4-hour semi occlusive application); ██████████ ██████████ (unpublished)	Yes (Exist./First)	Arysta
██████████ ██████████ ██████████	IIB, 4.3.1.2 (IIB, 6.2 (02))	2005c	Acute eye irritation/corrosion study with Cypermethrin 100 g/l EW in the rabbit; ██████████ ██████████ (unpublished)	Yes (Exist./First)	Arysta
██████████ ██████████ ██████████	IIB, 4.4.1 (IIB, 6.3)	2005d	Assessment of contact hypersensitivity to Cypermethrin 100 g/l EW in the mouse (local lymph node assay); ██████████ ██████████ (unpublished)	Yes (Exist./First)	Arysta
██████████ ██████████ ██████████	IIB, 4.2.1 (IIB, 6.1.1)	2005a	Assessment of Acute oral toxicity with Cypermethrin 100 g/l EW in the rat (acute toxic class method); ██████████ ██████████ (unpublished)	Yes (Exist./First)	Arysta
Bhunya S.P., Pati P.C.	IIA, 3.6.2	1988	Genotoxic effects of a synthetic pyrethroid insecticide, cypermethrin, in mice in vivo. Toxicology letters 41: 223-230.	No	
Bradberry S.M., AGe S.A., Proudfoot A.T., Vale J.A	IIA, 3.11	2005	Poisoning due to pyrethroids. Toicol; Rev. 24: 93-106.	No	
██████████	IIA, 3.2 (IIIA, 6.1.3) IIC, 1.2.1	1985	Acute Aerosol Inhalation Toxicity in the Rat of CGA 55186 Tech. (cypermethrin). ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 5.2/01 Non-GLP, unpublished	Yes (Exist./First)	Arysta

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Brice A., Cooke C.	IIA, 4.1.1.2 (IIIA,7.1.2.2 .2)	2005a	[14C]-Cypermethrin cis:trans 40:60: Degradation and retention in water-sediment systems. Covance Laboratories Ltd, Report No. 1669/014-D2149 GLP, unpublished	Yes (Exist./First)	Arysta
Brice A., Cooke C.	IIA, 4.1.3 (IIIA,7.2.2.1)	2006c	[14C]-Cypermethrin cis:trans 40:60: Aerobic soil degradation and metabolism Covance Laboratories Ltd., report no. 1669/012-D2149 GLP, unpublished	Yes (Exist./First)	Arysta
Brice, A., Cooke, C.	IIA, 4.1.2 (IIIA,7.1.3, 7.2.3.1)	2005b	[14C]-Cypermethrin cis:trans 40:60: Adsorption/Desorption in soil Covance Laboratories Ltd., report no. 1669/015-D2149 GLP, unpublished.	Yes (Exist./First)	Arysta
██████████ ██████████	IIA, 3.5.2 IIB, 4.5.2 (IIIA, 6.4.1 (02)) IIC, 1.2.1	1977	A 13 week feeding study of WL 43467 (cypermethrin) in dogs. ██████████ ██████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.3.2.2/01.	Yes (Exist./First)	Arysta
Burwood, C.	IIA, 4.1.1.2 (IIIA, 7.1.1.2.2)	2005	Cypermethrin cis:trans/40:60: Assessment of Inherent Biodegradability by measurement of CO2 evolution Covance Laboratories Ltd., report no. 1699/017-D2149 GLP, unpublished	Yes (Exist./First)	Arysta
Cantalamesa F.	IIA, 3.2. (IIIA, 6.1.1 (03)) IIC, 1.2.1	1993	Acute toxicity of two pyrethroids, permethrin, and cypermethrin in neonatal and adult rats. Short communication. Arch Toxicol. 67: 510-513.	No	
Cantalamesa F., Barili P., Vavagna R., Sabbatini M., Tenore G., Amenta F.	IIA, 3.8.1	1998	Influence of neonatal treatment with the pyrethroid insecticide cypermethrin on the development of dopamine receptors in the rat kidney. Mechanisms of Aging and Development 103: 165-178.	No	
Chauhan L.K., Agarwal D.K., Sundararaman V	IIA, 3.6.2	1997	In vivo induction of sister chromatid exchange in mouse bone marrow following oral exposure to commercial formulations of alpha-cyano pyrethroids. Toxicology Letters 93: 153-157.	No	
Chauhan L.K., Chandra S., Saxena P.N., Gupta S.K.	IIA, 3.6.2	2005	In vivo cytogenic effects of a commercially formulated mixture of cypermethrin and quinalphos in mice. Mutat. Res. 587: 120-125.	No	

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Chen, S., Zhang, S., He, F., Yao, P., Wu, Y., Sun, J., Liu, L., Li, Q.	IIA, 3.9 (IIIA,6.12.4)	1991	An epidemiological study on occupational acute pyrethroid poisoning in cotton farmers; British Journal of Industrial Medicine, 48: 77-81. (CYP/T164) (published) Chimac-Agriphar S.A., document no. KII A, 5.9.3/01 Not GLP, published	No	-
Chen H., Xiao J., Hu G., Zhou J., Xiao H., Wang X.	IIA, 3.10.2	2002	Estrogenicity of organophosphorus and pyrethroid pesticides. Journal of Toxicology and Environmental Health, part A 65: 1419-1435.	No	
Choi J.-S., Soderlund D.M.	IIA, 3.9.2	2006	Structure-activity relationships for the action of 11 pyrethroid insecticides on rat Nav1.8 sodium channels expressed in Xenopus oocytes. Toxicology and Applied Pharmacology 211: 233-244.	No	
Cole, J.H.	IIB, 2.1 (IIB, 5.10 (01))	1992	Pynosect PCO and Cyperkill 10 – persistence of activity on plywood and tiles against flies and cockroaches; Huntingdon Research Centre Ltd., UK; report no. MCT 85/921204 (CYP/E243), 18 September 1992 (unpublished).	Yes (Exist./First)	Arysta
Çömelekoğlu Ü., Özge A., Coşkun B.	IIA, 3.9.2	2002	Mode of acute action of cypermethrin on peripheral nerves. Sort communication. J. Appl. Toxicol. 22: 445-447.	No	
Condés-Lara M., Graff-Guerrero A., Vega-Riveroll L.	IIA, 3.9.1	1999	Effects of cypermethrin on the electroencephalographic activity of the rat: a model of chemically induced seizures. Neurotoxicology and Teratology 21: 293-298.	No	
██████████ ██████████ ██████████ ██████████ ██████████	IIA, 3.4, 3.5 IIB, 4.5.1 (IIIA, 6.3.1 (01) IIIA, 6.3.1 (02))	1976	Toxicity studies on the insecticide WL 43467: Summary of results of preliminary experiments. ██████████ ██████████ ██████████	Yes (Exist./First)	Arysta
Crawford M.J., Croucher A., Hutson D.H.	IIA, 3.1, 3.1.1, 3.1.2, 3.1.3 (IIIA, 6.2 (03))	1981	Metabolism of cis- and trans-cypermethrin in rats. Balance and tissue retention study. J. Agric. Food Chem. 29: 130-135.	No	
Cui Y., Guo J., Xu B., Chen Z.	IIA, 3.6.1	2006	Potential of chlorpyrifos and cypermethrin forming DNA adducts. Mutat. Res. 604: 36-41.	No	

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Das R.N., Parajuli S.	IIA, 3.11	2006	Cypermethrin poisoning and anti-cholinergic medication – a case report. Internet Journal of medical Update 1: http://www.Geocities.com/agnihotrimed/paper06_jul-dec2006.htm	No	
██████████ ██████████ ██████████	IIA, 3.1, 3.1.5 (IIIA, 6.2 (05)) IIB, 4.1.1	2009	In vivo percutaneous absorption of an EC formulation of [14C] Cypermethrin in rats. ██████████ ██████████ ██████████ GLP, unpublished	Yes (New/first)	Arysta
De Ryckel, B.	IIB, 1.4 (IIIB, 4.1)	2005	Validation of an analytical HPLC method for the determination of active substance content on a formulation emulsion, oil in water (EW) containing cypermethrin. Pesticides Research Department, Gembloux, Belgium; report FO20891 Ch.3174 2004/177, 7 March 2005 (unpublished).	Yes (New/First)	Arysta
De Ryckel, B.	IIB, 6 (IIIB,3.1→3.10)	2007	Physical and chemical properties and storage stability tests for CYPERMETHRIN 100 EW Walloon Agricultural Research Centre - (CRA-W), Gembloux, Belgium, report no. Chimac-Agriphar/FO 20896/Ch.3174/2004/179 Chimac-Agriphar SA, GLP, unpublished	Yes (New/First)	Arysta
Dési I., varga L., Dobronyi I., Szklenarik G	IIA, 3.10.1	1985	Immunotoxicological investigation of the effects of a pesticide; cypermethrin. Arch. Toxicol., Suppl. 8: 308-309.	No	
Dickhaus, S.	IIA, 4.2.1 (IIIA,7.4.3.4)	1990	21-Days reproduction test with compound cypermethrin technical in Daphnia magna Pharmatox Beratung und Forschung GmbH, report no. E.H./B.2-7-44-90 (CYP/T143) Chimac-Agriphar S.A., document no. KII A, 8.2.5/01 GLP, unpublished	Yes (Exist./First)	Arysta
Dickhaus, S.	IIA, 4.2.6 (IIIA,7.5.1.2 (02)) IIC, 2	1989	Ecotoxicological investigation of Cyperkill 10 in the earthworm; Pharmatox Beratung und Forschung GmbH, Germany; report no. EH/B.1-7-96-89 (CYP/T127), July 1989 (unpublished).	Yes	Arysta

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Eadsforth C.V. and Baldwin M.K.	IIA, 3.1, 3.1.3, 3.1.4 (IIIA 6.2 (03))	1983	Human dose-excretion studies with the pyrethroid insecticide, cypermethrin. Xenobiotica 13: 67-72.	No	
EC	IIC, 1.2.2	2006	Guidance for the setting and application of Acceptable Operator Exposure Levels (AOELs). Draft rev. 10, July 7, 2006.	No	
ECB	IIC, 1.2.2	2002a	Technical Notes for Guidance: Human exposure to biocidal products – guidance on exposure estimation. Report 2002. http://ecb.jrc.it/biocides		
ECB	IIC, 1.2.2	2005	Technical Guidance Documents in support of Directive 93/87/EEC on risk assessment for new notified substances and the commission regulation (EC) 1488/94 on risk assessment for existing substances, part 1, chapter 4, human risk characterization, revision document TGD_H_RC_dr_ECB_01.doc.		
ECB	IIC, 1.2.2	2002	Technical Notes of Guidance in support of Directive 98/8/EC of the European parliament and the council concerning the placing of biocidal products on the market, Guidance on exposure estimation, part 3. Final draft.		
Elbetieha A., Da'as S.I., Khamas W., Darmani H	IIA, 3.8.2, 3.10.2	2001	Evaluation of the toxic potentials of cypermethrin pesticide on some reproductive and fertility parameters in the male rats. Arch. Environ. Contam. Toxicol. 41: 522-528.	No	
El-Demerdash F.M., Yousef M.I., Al-Salhen K.S.	IIA, 3.8.2	2003	Protective effects of isoflavone on some biochemical parameters affected by cypermethrin in male rabbits. Journal of Environmental Science and Health Part B – Pesticides, Food Contaminants, and Agricultural Wastes B38: 365-378.	No	
El-Toukhy M.A., Girgis R.S.	IIA, 3.5 IIB, 4.5.1	1993	In vivo and in vitro studies on the effect of larvin and cypermethrin on adenosine triphosphatase activity of male rats. J. Environ. Sci. Health B 28: 599-619.	No	
Farag A.T., Goda N.F., Shaaban N.A., Mansee A.H.	IIA, 3.8.2	2007	Effects of oral exposure of synthetic pyrethroid, cypermethrin on the behavior of F1-progeny in mice. Reproductive Toxicology 23: 560-567.	No	

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Flanders, L.	IIA, 3.6.1 (IIIA, 6.6.3)	2011	Cypermethrin Technical – L5178Y TK +/- mouse lymphoma assay; Harlan Laboratories Ltd., report no. 41004533, 23 March 2011 (unpublished)	Yes (Exist./First)	Arysta
██████████	IIA, 4.2.6 (IIIA, 7.5.3.1.3)	2003	Cypermethrin: Reproduction study with the northern bobwhite quail ██ ██ Chimac-Agriphar S.A., document no. KII A, 8.1.3/02 GLP, unpublished	Yes (Exist./First)	Arysta
Gabbianelli R., Nasuti C., Falcioni G., Cantalamessa F.	IIA, 3.6.2	2004	Lymphocyte DNA damage in rats exposed to pyrethroids: effect of supplementation with Vitamins E and C. Toxicology 203: 17-26.	No	
██████████ ██████████ ██████████	IIA, 4.2.6 (IIIA, 7.5.3.1.2)	2002	Cypermethrin: A dietary LC50 study with the Northern bobwhite quail ██ ██ Chimac-Agriphar S.A., document no. KII A, 8.2.1/01 GLP, unpublished	Yes (Exist./First)	Arysta
Giray B., Gürbay A., Hincal F.	IIA, 3.5 IIB, 4.5.1	2001	Cypermethrin-induced oxidative stress in rat brain and liver is prevented by Vitamin E or allopurinol. Toxicology Letters 118: 139-146.	No	
Giri S., Giri A., Sharma G.D., Prasad S.B.	IIA, 3.6.2	2003	Induction of sister chromatid exchanges by cypermethrin and carbosulfan in bone marrow cells of mice in vivo. Mutagenesis 18: 53-58.	No	
Greenwood, J.	IIA, 1.3 (IIIA,3.4)	2004	Cypermethrin cis:trans 40:60 (purified active substance) : Evaluation of the spectroscopic properties Covance Laboratories Ltd, report no.: 0040/056-D2149 Chimac-Agriphar S.A., document no. KIIA, 2.5.1.1/01 GLP, unpublished	Yes (Exist./First)	Arysta

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
Greenwood, J., Maudsley, L.	IIA, 4.1.1.1 (IIIA, 7.1.1.1.2 (02), 7.3.1)	2003	Cypermethrin cis:trans/40:60 (purified active substance): Quantum yield analysis Covance Laboratories Ltd, study number 0040/034 (CYP/M70) Chimac-Agriphar S.A., document no. KII A, 2.9.3/01 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIB, 4.2.1 (IIIB, 6.1.3)	2005	Cypermethrin 250 g/L EC: acute inhalation toxicity (nose only) study in the rat; ██████████ ██████████ (unpublished).	Yes (Exist./First)	Arysta
Hakoi K., Cabral R., Hoshiya T., Hasegawa R., Shirai T., Ito N.	IIA, 3.7	1992	Analysis of carcinogenic activity of some pesticides in a medium-term liver bioassay in the rat. Teratogenesis, Carcinogenesis, and Mutagenesis 12: 269-276.	No	
Hardwick, T.	IIA, 3.1, 3.1.5 (IIIA, 6.2 (02)) IIB, 4.1.1 IIC, 1	2006	[14C]-Cypermethrin cis:trans 40:60 – Rates of penetration through human skin using a static cell in-vitro system; Covance Laboratories Ltd, Study no. 1669/028 GLP, unpublished	Yes (Exist./First)	Arysta
He F., Sun J., Han K., Wu Y., Yao P., Wang S., Liu L.	IIA, 3.3, 3.11 (IIIA, 6.12.2)	1988	Effects of pyrethroid insecticides on subjects engaged in packaging pyrethroids. British Journal of Industrial Medicine 45: 548-551.	No	
He F., Wang S., Liu L., Chen S., Zhang Z., Sun J.	IIA, 3.11	1989	Clinical manifestations and diagnosis of acute pyrethroid poisoning. Archives of Toxicology 63: 54-58.	No	
Hemming H., Flodström S., Wärngård L	IIA, 3.7	1993	Enhancement of altered hepatic foci in rat liver and inhibition of intercellular communication in vitro by the pyrethroid insecticides fenvalerate, flucythrinate and cypermethrin. Carcinogenesis 14: 2531-2535.	No	
██████████ ██████████ ██████████	IIA, 3.5.2 IIB, 4.5.2 (IIIA, 6.4.1 (01)) IIC, 1.2.1	1976	Toxicity studies on the insecticide WL 43467 (cypermethrin): three month feeding study in rats ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 5..3.2.1/01 Not-GLP, unpublished	Yes (Exist./First)	Arysta

Author(s)	Section no. / Reference no.	Year	Title Source (where different from company) Report no. GLP or GEP status (where relevant) Published or not	Data Protection Claimed Y/N	Owner
██████████ ██████████ ██████████	IIA, 3.8.2 (IIIA, 6.8.2) IIC, 1.2.1	1978	Toxicity studies on the insecticide WL 43467(cypermethrin): A 3 generation reproduction study in rats ██ ██ Chimac-Agriphar S.A., document no. KII A, 5.6.1/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
██████████ ██████████	IIA, 3.5 IIB, 4.5.1	1981	Subacute dermal toxicity study in rabbits with technical cypermethrin. ██████████ ██ ██████████ In 91/414 DAR for Cypermethrin, Annex B, prepared by the BE CA.	No	
Hutson D.H., Gaughan L.C., Casida J.E	IIA, 3.1.3, 3.1.4 (IIIA 6.2 (03))	1981	Metabolism of the cis- and trans-isomers of cypermethrin in mice. Pestic. Sci. 12: 385-398.	No	
Inglesfield, C.	IIA, 4.2.6 (IIIA,7.5.1.2 (01)) IIC, 2	1984	Toxicity of the pyrethroid insecticides cypermethrin and WF 85871 to the earthworm, Eisenia foetida Savigny Bull. Environ. Contam. Toxicol. (1984) 33:568-570 (CYP/T61) Not GLP, published	No	-
Institóris L., Undeger U., Siroki O., Nehéz M., Dési I.	IIA, 3.10.1	1999	Comparison of detection sensitivity of immuno- and genotoxicological effects of subacute cypermethrin and permethrin exposure in rats. Toxicology 137: 47-55.	No	
Kakko I., Toimela T., Tähti H.	IIA, 3.10.2	2004	Oestradiol potentiates in the effects of certain pyrethroid compounds in the MCF7 human breast carcinoma cell line. ATLA 32: 383-390.	No	
Kakko I., Toimela T., Tähti H.	IIA, 3.9.2	2003	The synaptosomal membrane bound ATPase as a target for the neurotoxic effects of pyrethroids, permethrin and cypermethrin. Chemosphere 51: 475-480.	No	
Kim I.Y., Shin J.H., Kim H.S., Lee S.J., Kang I.H., Kim T.S., Moon H.J., Choi K.S., Moon A., Han S.Y	IIA, 3.10.2	2004	Assessing estrogenic activity of pyrethroid insecticides using in vitro combination assays. Journal of Reproduction and development 50: 245-255.	No	

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Klein, W.	IIA, 4.1.1.2 (IIIA, 7.1.1.2.1)	1990	Biodegradation – The modified sturm test Fraunhofer Institute für Umweltchemie und Ökotoxikologie, report no. FEI-001/3-11 (CYP/M50) Chimac-Agriphar S.A., document no. KII A, 7.2.1.3.1/01 GLP, unpublished	Yes (Exist./First)	Arysta
██████████ ██████████	IIA, 4.2.1 (IIIA,7.4.3.2)	2005	Cypermethrin cis:trans/40:60 Fathead Minnow, early Life Stage test ██████████ ██████████ GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 3.2 IIC, 1.2.1	1984c	Acute Oral LD50 in the rat of CGA 55186 tech. (cypermethrin) – administration in aqueous medium. ██████████ ██████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
██████████	IIA, 3.2 (IIIA, 6.1.1 (1)) IIC, 1.2.1	1984a	Acute Oral LD50 in the Rat of CGA 55186 Tech. (cypermethrin) – (administration in oily medium). ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 5.2/01 Non-GLP, unpublished.	Yes (Exist./First)	Arysta
██████████	IIA, 3.2 (IIIA, 6.1.2) IIC, 1.2.1	1984b	Acute Dermal LD50 in the Rat of CGA 55186 Tech. (cypermethrin); ██████████ ██████████ Chimac-Agriphar S.A., document no. KII A, 5.2/01 Non-GLP, unpublished	Yes (Exist./First)	Arysta
Kumar S., Gautam A.K., Agarwal K.R., Shah B.A., Saiyad H.N. (IIA, 3.6.1, 3.6.2	2004	Demonstration of sperm head shape abnormality and clastogenic potential of cypermethrin. J. Environ. Biol. 25: 187-190.	No	
██████████ ██████████	IIA, 4.2.1 (IIIA,7.4.3.2)	2012	Fish early life stage test (<i>Pimephales promelas</i>) with cypermethrin ██████████ ██████████ GLP, unpublished	Yes (Exist./First)	Arysta

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Laville N., Balaguer P., Brion F., Hinfray N., Casellas C., Porcher J.-M., Aït-Aïssa S	IIA, 3.10.2	2006	Modulation of aromatase activity and mRNA by various selected pesticides in the human choriocarcinoma JEG-3 cell line. Toxicology 228: 98-108.	No	
Le Quesne P.M., Maxwzll I.C.	IIA, 3.11	1980	Transient facial sensory symptoms following exposure to synthetic pyrethroids: a clinical and electro-physiological assessment. Neurotoxicology 2: 1-11. (CYP/T38) Chimac-Agriphar S.A. , doc. No. KII A, 5.9.1./01.	No	
Le Quesne, P.M., Maxwell, I.C.	IIA, 3.9 (III A,6.12.1)	1980	Transient Facial Sensory Symptoms following Exposure to Synthetic Pyrethroids: A Clinical and Electro-physiological Assessment; Neurotoxicology 2: 1-11 (CYP/T38) Chimac-Agriphar S.A., document no. KII A, 5.9.1/01 Not GLP, published	No	-
Lessenger J.E.	IIA, 3.3, 3.11 (III A, 6.12.2)	1992	Five office workers inadvertently exposed to cypermethrin. Journal of Toxicology and Environmental Health 35: 261-267.	No	
Lisi P.	IIA, 3.4, 3.11 (III A, 6.12.6)	1992	Sensitization risk of pyrethroid insecticides. Contact Dermatitis 26: 349-350.	No	
██████████	IIA, 4.2.1 (III A,7.4.1.1)	2006a	Cypermethrin cis:trans/40:60: Acute toxicity to <i>Oncorhynchus mykiss</i> ; ██████████ ██████████ GLP, unpublished	Yes (Exist./First)	Arysta
Manson, P.	IIA, 4.2.1 (III A,7.4.1.2)	2006b	Cypermethrin cis:trans 40:60: Acute toxicity to <i>Daphnia magna</i> . Covance Laboratories Ltd., Report no. 1669/019-D2149 GLP, unpublished	Yes (Exist./First)	Arysta
Manson, P.	IIA, 4.2.1 (III A,7.4.1.3)	2006c	Cypermethrin cis:trans/40:60: Inhibition of growth to the alga <i>Pseudokirchneriella subcapitata</i> Covance Laboratories Ltd, study no. 1669/020 GLP, unpublished	Yes (Exist./First)	Arysta

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[REDACTED] [REDACTED] [REDACTED]	IIA, 3.5, 3.7 IIB, 4.5.3 (IIIA, 6.5, 6.7) IIC, 1.2.1	1978	Toxicity studies on the insecticide WL 43467 (cypermethrin): A 2 year feeding study in rats [REDACTED] [REDACTED] Chimac-Agriphar S.A., document no. KII A, 5.5.1/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
McDaniel, K.L., Moser V.C.	IIA, 3.9.1, IIA, 3.9.2 (IIIA, 6.9 (02)) IIC, 1.2.1	1993	Utility of a neurobehavioral screening battery for differentiating the effect of two pyrethroids, Permethrin and cypermethrin. Neurotoxicology and Teratology 15: 71-83 Not GLP, published	No	-
McKillop C.M., Brock J.A.C., Oliver G.J.A., Rhodes C.	IIA, 3.2	1987	A quantitative assessment of pyrethroid-induced paraesthesia in the guinea-pig flank model. Toxicology Letters 36: 1-7.	No	
[REDACTED]	IIA, 3.6.2 (IIIA, 6.6.4 (02))	2008	Genotoxicity evaluation of Cypermethrin technical by in vivo mouse micronucleus assay. [REDACTED] [REDACTED] (unpublished)	Yes (Exist/first)	Arysta
Mukhopadhyay I., Chowdhuri D.K., Bajpayee M., Dhawan A.	IIA, 3.6.2	2004	Evaluation of in vivo genotoxicity of cypermethrin in Drosophila melanogaster using the alkaline Comet assay. Mutagenesis 19: 85-90.	No	
Nasuti C., Gabbianelli R., Falcioni M.L., Di Stefano A., Sozio P., Cantalamessa F.	IIA, 3.8.1	2007	Dopaminergic system modulation, behavioral changes, and oxidative stress after neonatal administration of pyrethroids. Toxicology 229: 194-205.	No	
[REDACTED]	IIA, 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4 (IIIA, 6.2 (01)) IIC, 1	2006	[14C]-Cypermethrin-cis:trans 40:60:- Absorption, Distribution and Excretion in the Rat [REDACTED] [REDACTED] GLP, unpublished	Yes (Exist./First)	Arysta
Nehéz M., Lorencz R., Dési I	IIA, 3.6.2	2000	Simultaneous action of cypermethrin and two environmental pollutant metals, cadmium and lead, on bone marrow cell chromosomes of rats in subchronic administration. Ecotoxicol. Environ. Saf. 45: 55-60.	No	

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Nishi K., Huang H., Kamita S.G., Kim I.-H., Morisseau C., Hammock B.D.	IIA, 3.1.4	2006	Characterization of pyrethroid hydrolysis by the human liver carboxylesterases hCE-1 and hCE-2. Archives of biochemistry and Biophysics 445: 115-123.	No	
Oláh, B.	IIA, 3.6.1 (IIIA,6.6.1)	1999a	Testing of Cypermethrin cis:trans/40:60 test substance with bacterial reverse mutation assay Toxicology Research Centre Ltd, report no. 98/398-007M (CYP/T310) Chimac-Agriphar S.A., document no. KII A, 5.4.1.1/02 GLP, unpublished	Yes (Exist./First)	Arysta
Oláh, B.	IIA, 3.6.1 (IIIA,6.6.2)	2002	In vitro mammalian chromosomal aberration study of Cypermethrin cis:trans/40:60 Toxicology Research Centre Ltd, report no. 01/569-020C (CYP/T320) Chimac-Agriphar S.A., document no. KII A, 5.4.1.2/01 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 3.6.2 (IIIA, 6.6.4)	1999b	Mouse bone marrow micronucleus test of test substance Cypermethrin cis:trans/40:60 ██ ██ Chimac-Agriphar S.A., document no. KII A, 5.4.2.1/02 GLP, unpublished	Yes (Exist./First)	Arysta
██████████ ██████████	IIA, 3.9.1 (IIIA,6.9 (01))	1977	Toxicity of Pyrethroid Insecticides: Investigation of the Nerotoxic Potential of WL 43467 (cypermethrin) to Adult Domestic Hens ██ ██ Chimac-Agriphar S.A., document no. KII A, 5.7/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
Patel S., Pandey A.K., Bajpayee M., Parmar D., Dhawan A.	IIA, 3.6.2	2006	Cypermethrin-induced DNA damage in organs and tissues of the mouse: evidence from the comet assay. Mutat. Res. 607: 176-183.	No	

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Pluijmen M., Drevon C., Montesano R., Malaveille C., hautefeuille A., Bartsch H	IIA, 3.6.1	1984	Lack of mutagenicity of synthetic pyrethroids in Salmonella typhimurium strains and in V79 Chinese hamster cells. Mutat. Res. 137: 7-15	No	
Pore M.P.	IIA, 3.4	1993	Skin sensitisation test in guinea-pigs with cypermethrin; Gharda Chemicals Ltd. Prject no. 2433. In 91/414 DAR for Cypermethrin, Annex B, prepared by the BE CA.	No	
Puig M., Carbonell E., Xamena N., Creus A., Marcos R.	IIA, 3.6.1	1989	Analysis of cytogenetic damage induced in cultured human lymphocytes by the pyrethoid insecticides cypermethrin and fenvalerate. Mutagenesis 4: 72-74.	No	
██████████	IIA, 3.2 (IIIA, 6.1.1 (4)) IIC, 1.2.1	2005	Acute oral toxicity study (acute toxic class method) with cypermethrin in Wistar rats ██████████ ██████████ (unpublished)	Yes (Exist./First)	Arysta
Rhodes C. et al.	IIA, 3.1, 3.1.1, 3.1.2, 3.1.3, 3.1.4 (IIIA, 6.2 (03))	1984	The bioaccumulation and biotransformation of cis, trans-cypermethrin in the rat. Pest. Sci. 25: 471-480.	No	
██████████	IIA, 3.4 (IIIA,6.1.5)	2006	Cypermethrin cis:trans/40:60: local lymph node assay in the mouse (individual method) ██████████ ██████████ GLP, unpublished	Yes (Exist./First)	Arysta
Rose G.P. and Dewar A.J	IIA, 3.9.2	1983	Intoxication with four synthetic pyrethroids fails to show any correlation between neuromuscular dysfunction and neurobiochemical abnormalities in rats. Arch. Toxicol. 53: 297-316.	No	
Rose, G.	IIA, 3.2 IIC, 1.2.1	1983	Acute oral toxicity of WL85871 in comparison with WL43467. Shell International Chemical Company, report no. SBGR.83.101.	No	

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Saito K., Tomigahara Y., Ohe N., Isobe N., Nakatsuka I., Kaneko H.	IIA, 3.10.2	2000	Lack of significant estrogenic or antiestrogenic activity of pyrethroid insecticides in three in vitro assays based on classic estrogen receptor α -mediated mechanisms. Toxicological Sciences 57: 54-60	No	
██████████	IIB, 4.2.1 (IIB, 6.1.2)	1997	Cyperkill 25 EC: Acute dermal toxicity (limit test) in the rat; ██████████ (unpublished).	Yes (Exist./First)	Arysta
Santoni G., Cantalamessa F., Cavagna R., Romagnoli S., Spreghini E., Piccoli M	IIA, 3.8.1	1998	Cypermethrin-induced alternation of thymocyte distribution and functions on prenatally-exposed rats. Toxicology 125: 67-78.	No	
Santoni G., Cantalamessa F., Mazzucca L., Romagnoli S., Piccoli M	IIA, 3.8.1	1997	Prenatal exposure to cypermethrin modulates rat NK cell cytotoxic functions. Toxicology 120: 231-242.	No	
Santoni G., Cantalamessa F., Spreghini E., Sagretti O., Staffolani M., Piccoli M	IIA, 3.8.1	1998	Alterations of T cell distribution and functions in prenatally cypermethrin-exposed rats: possible involvement of catecholamines. Toxicology 138: 175-187.	No	
██████████	IIA, 3.2	1980	Acute oral LD50 in the mouse of technical CGA 55186. ██████████ Chimac-Agriphar S.A., doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
Schneider, E.	IIA, 4.1.1.1 (IIIA, 7.1.1.1 .1)	1997	Hydrolysis in water at 3 pH values Dr Krebs Analytik GmbH, report no. PR97/003 (CYP/C52) Chimac-Agriphar S.A., document no. KII A, 2.9.1/01 GLP, unpublished.	Yes (Exist./First)	Arysta

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██████████	IIA, 3.3 (IIIA, 6.1.4 (01))	1984b	Acute eye irritation/corrosion study in the rabbit of CGA 55186 technical. ██████████ ██████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
██████████	IIA, 3.3 (IIIA, 6.1.4 (02))	1984a	Acute dermal irritation/corrosion study in the rabbit of CGA 55186 technical. ██████████ ██████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
Senior, L.	IIB, 2.1 (IIB, 5.10 (02))	2006a	Simulated use bioassay to determine the efficacy of formulations against German and Oriental cockroaches – Final report; Insect Investigations Ltd., Cardiff, UK, study no. 06/04, December 2006 (unpublished).	Yes (Exist./First)	Arysta
Senior, L.	IIB, 2.1 (IIB, 5.10 (03))	2006b	Simulated use bioassay to determine the efficacy of formulations against cat fleas (Ctenocephalides felis); Insect Investigations Ltd., Cardiff, UK, study no. 06/03, December 2006 (unpublished).	Yes (Exist./First)	Arysta
Senior, L.	IIB, 2.1 (IIB, 5.10 (04))	2006c	Simulated use bioassay to determine the efficacy of formulations against ants (Lasius niger); Insect Investigations Ltd., Cardiff, UK, study no. 06/02, December 2006 (unpublished).	Yes (Exist./First)	Arysta
Servajean, E.	IIA, 4.2.6 (IIIA, 7.5.2.1)	2011	Earthworm reproduction test with Cypermethrin; Phytosafe s.a.r.l., France, report no. 11-99-064-ES, 30th November 2011 (unpublished).	Yes (Exist./First)	Arysta
Servajean, E.	IIA, 4.2.6 (IIIA, 7.5.1.1) IIC, 2	2005	Laboratory assessment of the side-effects of cypermethrin, technical grade, on the mineralization of nitrogen Phytosafe s.a.r.l., Report no. 04-99-058-ES GLP, unpublished	Yes (Exist./First)	Arysta
Shono T., Ohsawa K., Casada J.E.	IIA, 3.1.4	1979	Metabolism of trans- and cis-cypermethrin, and decamethrin by microsomal enzymes. J. Agric. Food Chem. 27: 316-325.	No	
Shukla Y., Taneja P.	IIA, 3.6.2	2002	Mutagenic potential of cypermethrin in mouse dominant lethal assay. J. Environ. Patol. Toxicol. Oncol. 21: 259-265	No	
Shukla Y., Yadav A., Arora A	IIA, 3.7	2002	Carcinogenic and cocarcinogenic potential of cypermethrin on mouse skin. Cancer Letters 182: 33-41.	No	

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██████████		2007	Analysis and certification of limits for cypermethrin technical. ██████████ ██████████ GLP, Unpublished	Yes (Exist./First)	██████████ ██████████ █
Stok J.E., Huang H., Jones P.D., Wheelock C.E., Morisseau C., Hammock B.D.		2004	Identification, expression, and purification of a pyrethroidhydrolyzing carboxylesterase from mouse liver microsomes. J. Biol. Chem. 279: 29863-29869	No	
Suman G., Naravaneni R., Jamil K.	IIA, 3.6.1	2006	In vitro cytogenetic studies of cypermethrin on human lymphocytes. Indian J. Exp. Biol. 44: 233-239.	No	
Sumida K., Saito K., Ooe N., Isobe N., Kaneko H., Nakatsuka I.	IIA, 3.10.2	2001	Evaluation of in vitro methods for detecting the effects of various chemicals on the human progesterone receptor, with a focus on pyrethroid insecticides. Toxicology Letters 118: 147-155.	No	
Sun H., Xu X.-L., Xu L.-C., Song L., Hong X., Chen J.-F., Cui L.-B., Wang X.-R.	IIA, 3.10.2	2007	Antiandrogenic activity of pyrethroid pesticides and their metabolite in reporter gene assay. Chemosphere 66: 474-479	No	
Surrallés J., Xamena N., Creus A., Català J., Norppa H., Marcos R.	IIA, 3.6.1	1995	Induction of micronuclei by five pyrethroid insecticides in whole-blood and isolated human lymphocyte cultures. Mutat. Res. 341: 169-184.	No	
Swales, S.	IIA, 4.1.1.1 (IIIA,7.1.1.1 .2 (01))	2003a	14C-Cypermethrin : Photodegradation in sterile, aqueous solution Covance Laboratories Ltd., Report N° 40/35 (CYP/M70) Chimac-Agriphar S.A., document no. KII A, 2.9.2/01 GLP, unpublished	Yes (Exist./First)	Arysta
Swales, S.	IIA, 4.1.1.1 (IIIA,7.2.2.4 (01))	2003b	(14C)-cypermethrin: Photodegradation on a soil surface Covance Laboratories Ltd., Report N° 40/44-D2149 (CYP/M71) Chimac-Agriphar S.A., document no. KII A, 7.1.1.1.2/01 GLP, unpublished	Yes (Exist./First)	Arysta

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Sydney, P.	IIA, 1. (IIIA,3.2)	2005a	Cypermethrin (pure) physicochemical properties Huntingdon Life Sciences Ltd, report no. CAV001/052563 GLP, unpublished	Yes (Exist./First)	Arysta
Sydney, P.	IIA, 1.3 (IIIA,3.10)	2005b	Cypermethrin (technical) physicochemical properties Huntingdon Life Sciences Ltd, report no. CAV002/052564 GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 4.1.1.2 (IIIA,7.4.3.3 .1) IIC, 2	1990	Draft report on flow-through test in rainbow trout to determine the bioaccumulation potential of cypermethrin ████████████████████ ████████████████████ Chimac-Agriphar S.A., document no. KII A, 8.2.3/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
Tamang R.K., Jha G.J., Gupta M.K., Chauhan H.V.S., Tiwary B.K.	IIA, 3.10.1	1988	In vivo immunosuppression by synthetic pyrethroid (cypermethrin) pesticide in mice and goats. Veterinary Immunology and Immunopathology 19: 299-305.	No	
██████████ ██████████ ██████████	IIA, 3.7.1, 3.8.1 (IIIA,6.8.1 (02)) IIC, 1	1984	WL 43467 (Cypermethrin) – Effects upon the progress and outcome of pregnancy in the rabbit ████████████████████ ████████████████████ Chimac-Agriphar S.A., document no. KII A, 5.6.2.2/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
██████████ ██████████ ██████████	IIA, 3.7.1 (IIIA, 6.8.1 (01)) IIC, 1	1978	WL 43467 (Cypermethrin) – Effects upon the progress and outcome of pregnancy in the rat ████████████████████ ████████████████████ Chimac-Agriphar S.A., document no. KII A, 5.6.2.1/01 Not GLP, unpublished	Yes (Exist./First)	Arysta
██████████	IIA, 3.2	1980	Acute oral LD50 in the rabbit of technical CGA 55186. ██████████ ████████████████████ Chimac-Agriphar S.A. , doc. No. KII A, 5.2/01.	Yes (Exist./First)	Arysta
Undeğer U., Başaran N.	IIA, 3.6.1	2005	Effects of pesticides on human peripheral lymphocytes in vitro: induction of DNA damage. Arch. Toxicol. 79: 169-176.	No	

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Varshneya C., Singh T., Sharma L.D., Bahba H.S., Garg S.K.	IIA, 3.5.2, 3.10.1 IIB, 4.5.2	1992	Immunotoxic responses of cypermethrin, a synthetic pyrethroid insecticide in rats. Short communication. Indian J. Physiol. Pharmacol. 36: 123*126.	No	
Vijverberg H.P.M., van den Bercken J.	IIA, 3.9.2, 3.11	1990	Neurotoxicological effects and the mode of action of pyrethroid insecticides. Critical Reviews in Toxicology 21: 105-126.	No	
Wagner S.L.	IIA, 3.4, 3.11 (IIIA, 6.12.6)	1994	Allergy from pyrethrin or pyrethroid insecticides. Journal of Agromedicine 1: 39-45.	No	
Weiping Liu, Jay J Gan, Sangjin Lee Ingeborg Werner	IIA, 4	2004	Isomer selectivity in aquatic toxicity and biodegradation of cypermethrin.	N	
Weiping Liu., Jay J. Gan, Sujie Qin	IIA, 4	2005	Separation and aquatic toxicity of enantiomers of synthetic pyrethroid insecticides. Chirality 17:S127-S133, 2005. © 2005 Wiley-Liss, Inc.	N	
WHO	IIA, 3.1.4 IIA, 3.2 IIC, 1.2.1	1989	Cypermethrin (EHC 82, 1989); International Programme on Chemical Safety, Environmental Health Criteria 82 – Cypermethrin	No	
Wimbush, J.	IIA, 1.4.2 (IIIA, 4.2b)	2005	Cypermethrin cis:trans 40:60: Validation of an analytical method for the determination of residues in air Covance Laboratories Ltd, report no 1669/016-D2149 GLP, unpublished	Yes (Exist./First)	Arysta
Wimbush, J.	IIA, 1.4.2 (IIIA, 4.2c)	2002	Cypermethrin: Validation of an analytical method for the determination and confirmation of residues in surface water Covance Laboratories Ltd, report no. 40/040-D2149 (CYP/C69) Chimac-Agriphar S.A., document no. KII A, 4.2.3/02 GLP, unpublished	Yes (Exist./First)	Arysta

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Wimbush, J.	IIA, 1.4.2 (IIIA, 4.2d)	2003b	Cypermethrin: : Validation of an analytical method for the determination and confirmation of residues in products of animal origin (milk, liver, kidney, muscle, fat and eggs) Covance Laboratories Ltd, report no. 40/041-D2149 (CYP/C68) Chimac-Agriphar S.A., document no. KII A, 4.2.5/01 GLP, unpublished	Yes (Exist./First)	Arysta
Wimbush, J.	IIA, 1.4.2 (IIIA,4.2)	2003b	Cypermethrin: validation of the DFG multi residue method S23 for the determination and confirmation of residues in oilseed rape (seed, oil and straw) and wheat (grain and straw). Covance Laboratories Ltd., report no. 40/037-D2149 (CYP/C67). Chimac-Agriphar S.A., doc. No. KII A, 4.2.1/11.	Yes (Exist./First)	Arysta
Wimbush, J.	IIA, 1.4.2 (IIIA,4.2a)	2003a	Cypermethrin: Validation of an analytical method for the determination and confirmation of residues in soil and sediment Covance Laboratories Ltd, report no. 40/039-D2149 (CYP/C70) Chimac-Agriphar S.A., document no. KII A, 4.2.2/01 GLP, unpublished	Yes (Exist./First)	Arysta
Wolansky M.J., Gennings C., Crofton K.M.	IIA, 3.9.1	2006	Relative potencies for acute effects of pyrethroids on motor function in rats. Toxicological Sciences 89: 271-277.	No	
Woollen B.H., Marsh J.R., Laird W.J.D., Lesser J.E	IIA, 3.1, 3.1.1 (IIIA, 6.2 (04)) IIB, 4.1.1	1992	The metabolism of cypermethrin in man: differences in urinary metabolite profiles following oral and dermal administration. Xenobiotica 22: 983-991.	No	
Yousef M.I., El-Deerdash F.M., Kamel K.I., Al-Salhen K.S	IIA, 3.5.2, 3.8.2 IIB, 4.5.2	2003a	Changes in some hematological and biochemical indices of rabbits induced by isoflavones and cypermethrin. Toxicology 189: 223-234	No	
Yousef M.I., El-Demerdash F.M., Al-Salhen K.S.	IIA, 3.8.2, 3.10.2	2003b	Protective role of isoflavones against the toxic effect of cypermethrin on semen quality and testosterone levels of rabbits. Journal of Environmental Science and Health Part B – Pesticides, Food Contaminants, and Agricultural Wastes B38: 463-478.	No	