

Renewal under Regulation (EC) 1107/2009



Lambda-cyhalothrin

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the approval of the active substance and for which the main data submitter has claimed data protection

Version 1

Rapporteur Member State: Sweden
Co-Rapporteur Member State: Spain

June 2014

Versions of List of essential information, tests and studies

Date	Reason for revision
June, 2014	First version, prepared after the finalisation of the peer-review

Table of contents

Introduction	4
B.1 Identity	5
B.2 Physical and chemical properties	6
B.3 Data on application and further Information	8
B.4 Proposals for classification and labelling	9
B.5 Methods of Analysis.....	10
B.6 Toxicology and metabolism	14
B.7 Residue data	16
B.8 Environmental Fate and Behaviour	21
B.9 Ecotoxicology	24

Introduction

This document was prepared in accordance with guidance document SANCO/10435/2004 - rev 7.

B.1 Identity

No non-confidential studies (see further Annex C's to the RAR)

B.2 Physical and chemical properties

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 2.2/01	Kuhne, K.	2011	Lambda-cyhalothrin – Determination of the physic-chemical property relative density Syngenta Harlan Laboratories Ltd., Itingen, Switzerland, D28952 GLP, not published Syngenta File No PP321_11438	SYN	
IIA 2.2/02	Fieseler, A.	2011a	Determination of the Relative Density of Lambda-Cyhalothrin IBACON GmbH, Rossdorf, Germany IBACON Project Number 63478182 GLP, not published	TFL	
IIA 2.4.1/02	Das, R.	2011	Lambda-cyhalothrin – Color and physical state Syngenta Syngenta Crop Protection, Münchwilen, Switzerland, 123112 GLP, not published Syngenta File No PP321_11433	SYN	
IIA 2.4.1/03	Eichler, M. Herrmann, S.	2011	Authentication of Lambda-Cyhalothrin TC Institut für Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Project No.: 63468103 GLP, not published	TFL	
IIA 2.6/01	Mollandin, G.	2011	Determination of the water solubility of Metabolite V of <i>lambda</i> -Cyhalothrin IBACON GmbH, Rossdorf, Germany IBACON Project Number 63521185 GLP, not published	TFL	
IIA 2.6/02	Mollandin, G.	2012a	Determination of the water solubility of Metabolite Ia of <i>lambda</i> -Cyhalothrin IBACON GmbH, Rossdorf, Germany IBACON Project Number 63481185 GLP, not published	TFL	
IIA 2.6/03	Mollandin, G.	2012c	Determination of the water solubility of Metabolite XV of <i>lambda</i> -Cyhalothrin IBACON GmbH, Rossdorf, Germany IBACON Project Number 63511185 GLP, not published	TFL	
IIA 2.7/01	Vijayakumar, C.	2011	Lambda-cyhalothrin - Solubility in organic solvents Syngenta Syngenta Biosciences Pvt. Ltd., Ilhas Goa, India, SMG10931 GLP, not published Syngenta File No PP321_11445	SYN	
IIA 2.7/02	Hosmani, R. S.	2004	Solubility of <i>lambda</i> -Cyhalothrin 95 TC in organic Solvents Rallis research Centre, Bangalore, India Study No.: 3822/03, 2004/06/29 GLP, not published	HELM	
IIA 2.8/02	Pardhasaradhi, V.	2004	Partition coefficient (n-octanol/water) of <i>lambda</i> -Cyhalothrin 95 TC Rallis research Centre, Bangalore, India Study No.: 3824/03, 2004/07/13 GLP, not published	HELM	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 2.11/01 IIA 2.11/03 IIA 2.12/03 IIA 2.13/02 IIA 2.15/02	Jackson, W.	2011	Lambda-cyhalothrin - Safety study Syngenta Syngenta Technology & Projects, Huddersfield, United Kingdom, GLP, not published Syngenta File No PP321 11446	SYN	
IIA 2.11/04	Dornhagen, J.	2011	<i>lambda</i> -Cyhalothrin TC, batch No. 201012021. Auto-ignition temperature (liquids and gases) A.15 Siemens Prozess Sicherheit, Frankfurt am Main, Germany Report No. 20110126.01 IBACON Project Number 63465213 GLP, not published	TFL	
IIA 2.12/04	Fieseler, A.	2011b	Determination of the flash point of <i>lambda</i> - Cyhalothrin TC IBACON GmbH, Rossdorf, Germany IBACON Project Number 63464189 GLP, not published	TFL	
IIA 2.13/03	Heimann- Detlefsen, D.	2012	<i>lambda</i> -Cyhalothrin. Assessment of Explosive Properties DHD-Consulting GmbH, Hildesheim, Germany TFL-2012-08, 2012-04-17 No GLP, not published	TFL	
IIA 2.15/03	Meinerling, M.	2011	Expert statement on the oxidizing properties of <i>lambda</i> -Cyhalothrin IBACON GmbH, Rossdorf, Germany IBACON Project Number 63467692 GLP, not published	TFL	

*: Owners' code identifications and names

SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

Helm Helm AG (member of TFL)

† Entries are based on information received from the main data submitter(s) and in certain cases Member States. Neither the Commission nor the Member States are responsible for the completeness or validity of this information received.

B.3 Data on application and further Information

None

B.4 Proposals for classification and labelling

None

B.5 Methods of Analysis

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 4.1.1/01	Duffin, M.R.	2002b	The determination of <i>lambda</i> -cyhalothrin and associated impurities in technical material by capillary gas chromatography Syngenta, Jealott's Hill International, Bracknell, Berkshire, UK Method N° AMP10020-02B, 23.05.2002 not GLP, not published Syngenta File N° PP321/1881 This is CONFIDENTIAL INFORMATION	SYN	
IIA 4.1.1/02	Duffin, M.R.	2002d	Validation of method - The determination of <i>lambda</i> -cyhalothrin and associated impurities in technical material by capillary gas chromatography Syngenta, Jealott's Hill International, Bracknell, Berkshire, UK Report No. RJ3285B, 15.05.2002 GLP, not published Syngenta File N° PP321/1858 This is CONFIDENTIAL INFORMATION	SYN	
IIA 4.1.1/03	Eichler, M., Herrmann, S.	2011	Authentication of <i>lambda</i> -Cyhalothrin TC Institut für Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Project No.: 63468103 GLP, not published This is CONFIDENTIAL INFORMATION	TFL	
IIA 4.2.1/01	Robinson, N.	2011b	Validation of Analytical Method 11-002 for the Determination of Residues of <i>lambda</i> -Cyhalothrin in crops Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110043 GLP, published: no	TFL	
IIA 4.2.1/02	Robinson, N.	2011a	Validation of Analytical Method 11-003 for the Determination of Residues of <i>lambda</i> -Cyhalothrin in Animal Matrices Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110044 GLP, published: no	TFL	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 4.2.1/03	Buttler, O.	2012	lambda-Cyhalothrin – Independent Laboratory Validation of a Residue Analytical Method in Crops and Animal Matrices D.U.Noack-Laboratorien, Sarstedt, Germany Report No. 111013IR GLP, published: no	TFL	
IIA 4.2.1/19	Weber H.	2011	Lambda-cyhalothrin - Laboratory Validation of the QuEChERS Multiple Residue Method in Crops Syngenta Eurofins - Dr Specht & Partner, Hamburg, Germany, S11-00715 GLP, not published Syngenta File No PP321_11444	SYN	
IIA 4.2.1/20	Class T., Kuhn T.	2011	Lambda-cyhalothrin - Independent Laboratory Validation of the QuEChERS Multiple Residue Method in Crops Syngenta PTRL Europe, Ulm, Germany, B 2179 G GLP, not published Syngenta File No PP321_11453	SYN	
IIA 4.2.1/24 & IIA 4.2.5/01	Class T., Kuhn T.	2010	Lambda-Cyhalothrin - Validation of the multi-Residue Enforcement DFG Method S19 for the Determination of Residues of Lambda-Cyhalothrin in Animal Matrices and Blood Syngenta - Jealott's Hill, Bracknell, United Kingdom PTRL Europe, Ulm, Germany, B1866G GLP, not published Syngenta File No PP321_11381	SYN	
IIA 4.2.1/25	Weber H.	2011a	Lambda-Cyhalothrin - Independent Laboratory Validation of the DFG S 19 Multiple Residue Method for the Determination in Animal Tissues Syngenta Eurofins - Dr Specht & Partner, Hamburg, Germany, S10-03749 GLP, not published Syngenta File No PP321_11436	SYN	
IIA 4.2.2/01	Gemrot F.	2012	Lambda-cyhalothrin - Analytical Residue Method GRM043.05A for the Determination of Lambda-cyhalothrin in Soil Syngenta Eurofins - ADME Bioanalyses, Vergeze, France, GRM043.05A Not GLP, not published Syngenta File No PP321_11499	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 4.2.2/02	Gemrot F.	2011	Lambda-cyhalothrin - Validation of Residue Method GRM043.05A for the Determination of Lambda-cyhalothrin in Soil Syngenta Eurofins - ADME Bioanalyses, Vergeze, France, S11-03247 GLP, not published Syngenta File No PP321_11464	SYN	
IIA 4.2.2/03	Robinson, N.	2011c	Validation of Analytical Method 11-009 for the Determination of Residues of <i>lambda</i> -Cyhalothrin in Soil Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110095 GLP, published: no	TFL	
IIA 4.2.3/01 (drinking water only)	Robinson N., Gemrot F., Braid S.	2010	Lambda-cyhalothrin - Analytical Method for the Determination of Residues of Lambda- cyhalothrin in Water. Final Determination by GC-MS Syngenta - Jealott's Hill, Bracknell, United Kingdom ADME - Bioanalyses, Vergeze, France, GRM043.02A Not GLP, not published Syngenta File No PP321_11377	SYN	
IIA 4.2.3/02 (drinking water only)	Robinson, N	2011d	Description of methods for the analysis of water for parent compound and metabolites Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110045 GLP, published: no	TFL	
IIA 4.2.4/01	Gemrot F.	2012a	Lambda-cyhalothrin - Analytical Residue Method GRM043.06A for the Determination of Lambda-cyhalothrin in Air Syngenta Eurofins - ADME Bioanalyses, Vergeze, France, GRM043.06A Not GLP, not published Syngenta File No PP321_11500	SYN	
IIA 4.2.4/02	Gemrot F.	2011a	Lambda-cyhalothrin - Validation of Residue Method GRM043.06A for the Determination of Lambda-cyhalothrin in Air Syngenta Eurofins - ADME Bioanalyses, Vergeze, France, S11-03246 GLP, not published Syngenta File No PP321_11463	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 4.2.5/02	Robinson, N.	2011e	Validation of Analytical Method 11-005 for the Determination of Residues of <i>lambda</i> -Cyhalothrin in Blood Serum and Urine Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110046 GLP, published: no	TFL	

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SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

[†] Entries are based on information received from the main data submitter(s) and in certain cases Member States. Neither the Commission nor the Member States are responsible for the completeness or validity of this information received.

B.6 Toxicology and metabolism

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 5.1	[REDACTED]	2011	Lambda-Cyhalothrin – Biliary Elimination and Biotransformation in the Rat Following Single Oral Administration of [¹⁴ C]-Lambda-cyhalothrin. [REDACTED] Report Number: 31827 GLP, not published	SYN	
IIA 5.8.1	Donath, C.	2011a	Reverse mutation assay using bacteria (Salmonella typhimurium) with lambda Cyhalothrin, Metabolite Ia BSL Bioservice Scientific Laboratories GmbH, Planegg, Germany Study No.: 110322 GLP, not published	TFL	
IIA 5.8.1	[REDACTED]	2012	Mammalian micronucleus test of murine peripheral blood cells with lambda-Cyhalothrin, Metabolite Ia [REDACTED] Study No.: 113188 GLP, not published	TFL	
IIA 5.8.1	Flügge, C.	2011f	Mutagenicity study of Hydroxy-(3-phenoxy-phenyl)acetic acid in the Salmonella typhimurium reverse mutation assay (in vitro) LPT GmbH & Co. KG, Hamburg, Germany Study No.: 27077 GLP, not published	TFL	
IIA 5.8.1	Flügge, C.	2012b	In vitro assessment of the clastogenic activity of hydroxyl-(3-phenoxy-phenyl)-acetic acid in cultured human peripheral lymphocytes LPT GmbH & Co. KG, Hamburg, Germany Study No.: 27079 GLP, not published	TFL	
IIA 5.8.1	Flügge, C.	2012c	Mutagenicity study of Hydroxy-(3-phenoxy-phenyl)acetic acid in the mouse lymphoma forward mutation assay - in vitro – LPT GmbH & Co. KG, Hamburg, Germany Study No.: 27078 GLP, not published	TFL	
IIA 5.8.1	[REDACTED] J.	2011c	Acute toxicity Hydroxy-(3-phenoxy-phenyl)acetic acid in rats [REDACTED]	TFL	

Annex point / reference number	Author(s)	Year	Title Source (where different from company), Report No. GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
			[REDACTED] Study No.: 27076 GLP, not published		
IIA 5.8.1	[REDACTED]	2011	Acute Oral Toxicity (Acute Toxic Class Method) with lambda-Cyhalothrin, Metabolite Ia [REDACTED] Study No.: 110321A GLP, not published	TFL	
IIA 5.8.1	Oppong- Nketiah, M.	2011	In vitro Mammalian Chromosome Aberration Test in Human Lymphocytes Metabolite Ia (lambda-Cyhalothrin) BSL Bioservice Scientific Laboratories GmbH, Planegg, Germany Study No.: 110325 GLP, not published	TFL	
IIA 5.8.1	Trenz, K.	2011a	In vitro Mammalian Cell Gene Mutation Assay (Thymidine Kinase Locus/TK+/-) in Mouse Lymphoma L5178Y Cells with lambda-Cyhalothrin, Metabolite Ia BSL BIOSERVICE Scientific Laboratories GmbH, Planegg, Germany Study No.: 110328 GLP, not published	TFL	
IIA 5.8.2	[REDACTED]	2004	LAMBDA-CYHALOTHRIN: Developmental Neurotoxicity Study in Rats [REDACTED] Syngenta File No PP321/2475 GLP, not published	SYN	

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SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

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B.7 Residue data

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 6.1 / 01	Clarke DM, Sapiets A.	1994	Lambda-cyhalothrin and Tefluthrin: Storage Stability of the Metabolite Residues in Animal Products. Zeneca Agrochemicals, Jealott's Hill Research Station, Bracknell, Berkshire, UK. Report RJ1568B Not GLP; not published Syngenta File Number ICI993/0005	SYN	
IIA 6.1 / 04	Hobbs G., Bailey K.	2011	[¹⁴ C]-Lambda-cyhalothrin - Metabolism in Tomato Syngenta Charles River Laboratories, Edinburgh, United Kingdom, 32034 GLP, not published Syngenta File No PP321 11441	SYN	
IIA 6.2 / 02		2012	Lambda-cyhalothrin - The Metabolism of [¹⁴ C]-Lambda-cyhalothrin in the Lactating Goat. Syngenta. GLP, not published Syngenta File No PP321 11503	SYN	
IIA 6.3 / 02	Anthony S., Brown D.	2001	Lambda-cyhalothrin: Residue Levels in Tomato (outdoor) from Trials conducted in Northern France during 2000 Zeneca Agrochemicals, Jealott's Hill, United Kingdom Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5093/ZE GLP, not published Syngenta File No PP321/0503	SYN	
IIA 6.3 / 03	Anthony S., Brown D.	2001	Lambda-cyhalothrin: Residue Levels in Tomato (Protected) from Trials conducted in Spain & Italy during 2000 Zeneca Agrochemicals, Jealott's Hill, United Kingdom Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5096/ZE GLP, not published Syngenta File No PP321/0776	SYN	
IIA 6.3 & IIA 6.5.2 / 04	Anthony S., Volle C., Brown D.	2001	Lambda-cyhalothrin: Residue Levels in Tomato (Field) and Processed Fractions from Trials conducted in Spain and Italy during 2000 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5094/ZE GLP, not published Syngenta File No PP321/0013	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports[†] on previous use in granting national authorizations
IIA 6.3 / 17	Goodband T.	2002	Lambda-cyhalothrin: Residue Levels in Winter Wheat from Trials conducted in the UK during 2001 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5858/SY GLP, not published Syngenta File No PP321/1870	SYN	
IIA 6.3 / 18	Goodband T.	2002a	Lambda-cyhalothrin: Residue Levels in Tomato (field) from Trials conducted in Northern France during 2001 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5861/SY GLP, not published Syngenta File No PP321/1824	SYN	
IIA 6.3 / 19	Goodband T.	2002b	Lambda-cyhalothrin: Residue Levels in Tomato (protected) from Trials conducted in Northern France during 2001 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5862/SY GLP, not published Syngenta File No PP321/1821	SYN	
IIA 6.3 / 20	Goodband T.	2002c	Lambda-cyhalothrin: Residue Levels in Tomato (protected) from Trials conducted in Spain and Italy during 2001 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5863/SY GLP, not published Syngenta File No PP321/1828	SYN	
IIA 6.3 / 21	Gimeno Martos, C.	2011	Magnitude of lambda-Cyhalothrin residues in peach following applications with Judo (lambda-Cyhalothrin 100 g/L CS). TrialCamp, Monserrat, Spain. Report No. TRC10-131 GLP, not published	SAPEC	
IIA 6.3 / 24	Jones S.	2013	Lambda-cyhalothrin - Residue Study on Plum in Italy and Spain in 2012. Syngenta Report No. S12-01305 Eurofins Agrosience Services Ltd Slade Lane, Wilson, Melbourne, Derbyshire, DE73 8AG, United Kingdom GLP, not published Syngenta File Number A12690B_11283	SYN	
IIA 6.3 / 28	Könings, I.	2008	Determination of lambda-Cyhalothrin residues in potatoes following treatment with JUDO and LAMBDA 100 CS (B) under Open Field Conditions in Spain, Portugal, Italy and Southern France, 2007. ANADIAG, Haguenau, France. Report No. R A7086 GLP, not published	SAPEC	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 6.3 / 29	Lagrasse, S.	2010	Determination of residues of lambda-Cyhalothrin in wheat following three applications of Lambda-Cyhalothrin 100 CS under field conditions in Northern and Southern France, 2009. Promo Vert, France. Report No. 08 I CP AP P/C. GLP, not published	SAPEC	
IIA 6.3 / 32	North L.	2009	Thiamethoxam and Lambda Cyhalothrin - Residue Study on Wheat in France (North), Germany and United Kingdom in 2008 Syngenta - Jealott's Hill, Bracknell, United Kingdom Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, S08-00736, T000482-08-REG GLP, not published Syngenta File No CGA293343_11405	SYN	
IIA 6.3 / 36	Oxspring S.	2004	Residue study with Lambda-cyhalothrin in or on Cherry Tomato (Protected) in Italy Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/7559/SY GLP, not published Syngenta File No PP321/2174	SYN	
IIA 6.3 / 37	Oxspring S.	2004a	Residue study with Lambda-cyhalothrin in or on Cherry Tomato (Protected) in Italy Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/7560/SY GLP, not published Syngenta File No PP321/2173	SYN	
IIA 6.3 / 47	Solé C.	2007	Thiamethoxam (CGA293343) and Lambda-Cyhalothrin (PP321): residue study on tomato in Spain and Italy in 2006 Syngenta - Jealott's Hill, Bracknell, United Kingdom ADME - Bioanalyses, Vergeze, France, T001231-06-REG GLP, not published Syngenta File No CGA293343 10066	SYN	
IIA 6.3 / 50	Weir A.	2011	Lambda-cyhalothrin: Residue Study on Wheat in Southern France and Spain in 2010 Syngenta Eurofins - Agriseach UK Ltd., Wilson, United Kingdom, S10-01574-REG GLP, not published Syngenta File No A10970A 10002	SYN	
IIA 6.3 / 51	Weir A.	2011	Lambda-cyhalothrin - Residue Study on Plums in Germany in 2011 Syngenta Eurofins Agrosience Services Ltd, Wilson, UK, S11-02697 GLP, not published Syngenta File No A12690B 11263	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 6.3 / 52	Weir A.	2012	Lambda-cyhalothrin - Storage Stability of Residues of R110649 and R947650 in Processed Commodities Syngenta Eurofins Agroscience Services Ltd, Wilson, UK, S11-03565-INT GLP, not published Syngenta File No R947650_10002	SYN	
IIA 6.3 / 53	Zeiger M.	2010	Determination of residues of lambda- cyhalothrin after one application of Kaiso EG in cereals at 4 sites in Southern Europe 2009 Eurofins Agroscience services report n° S09-01955 GLP, not published	NUF	
IIA 6.5.1 / 01	Richardson K.	2006	Lambda-cyhalothrin: Aqueous Hydrolysis at 90, 100 and 120°C Syngenta Crop Protection AG, Basel, Switzerland Syngenta - Jealott's Hill International, Bracknell, Berkshire, United Kingdom, T000767-05-REG 05JH031 GLP, not published Syngenta File No PP321/3150	SYN	
IIA 6.5.2 / 02	Goodband T., Volle C.	2002	Lambda-cyhalothrin: Residue Levels in Plum and Processed Fractions from Trials conducted in Southern France during 2001 Syngenta Crop Protection AG, Basel, Switzerland Agriseach UK Ltd., Melbourne, Derbyshire, United Kingdom, AF/5837/SY GLP, not published Syngenta File No PP321/1922	SYN	
IIA 6.5.2 / 08	Weir A.	2011a	Lambda-cyhalothrin - Residue Study on Beans with Pods and Processed Fractions in Italy and Spain in 2010 Syngenta Eurofins Agroscience Services Ltd, Wilson, UK, S10-01575 GLP, not published Syngenta File No A12690B_11267	SYN	
IIA 6.5.2 / 09	Weir A.	2012a	Lambda-cyhalothrin: Residue Study on Protected Tomato and Processed Fractions in Spain in 2010 Syngenta Eurofins Agroscience Services Ltd, Wilson, UK, S10-01576 GLP, not published Syngenta File No A12690B_11271	SYN	
IIA 6.7 / 01	Anderson L., Crook S.	2012	Lambda-cyhalothrin - Chiral Analysis of Kale, Lettuce and Apple Residue Samples originating from Trials carried out in France and Italy in 2004 Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, TK0061118 Not GLP, not published Syngenta File No PP321_11483 This is CONFIDENTIAL INFORMATION	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 6.7 / 02	Boxwell C., Smith R.	2012	Lambda-cyhalothrin - Ratio of Residue Levels of R157836, R119890 and R41207 to Parent Lambda-cyhalothrin following Analysis of Wheat, Tomato and Plum Residue Samples originating from Trials carried out in Canada, the USA and Mexico Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, TK108893 Not GLP, not published Syngenta File No PP321_11502 This is CONFIDENTIAL INFORMATION	SYN	

* Owners' code identifications and names

NUF Nufarm S.A.S (member of Syngenta Task Force)

SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

SAPEC member of TFL

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B.8 Environmental Fate and Behaviour

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 7.1.1.1.1 IIA 7.1.1.2.1	Lowrie C.	2011a	Lambda-Cyhalothrin - Rate and Route of Degradation of [¹⁴ C]-Lambda-cyhalothrin Under Aerobic Laboratory Conditions in Four Soils at 20°C Syngenta Charles River Laboratories, Edinburgh, United Kingdom, 32172 GLP, not published Syngenta File No PP321_11455	SYN	
IIA-7.1.1.1.1 IIA-7.1.1.2.1	Adam, D.	2012c	[Cyclopropyl-1- ¹⁴ C]Lambda-Cyhalothrin – Route and Rate of Degradation in One Soil Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110032 GLP, not published	TFL	
IIA-7.1.1.1.1 IIA-7.1.1.2	Adam, D.	2012d	[Phenoxy-U- ¹⁴ C]Lambda-Cyhalothrin – Route and Rate of Degradation in Four Soils Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110031 GLP, not published	TFL	
IIA 7.1.1.2.1	Shi C., Ericson J.	1998	[¹⁴ C]R211133 (Ref.XV), a metabolite of Lambda-cyhalothrin: Rate of Degradation in Soil under Aerobic Laboratory Conditions Zeneca Agrochemicals, Jealott's Hill, United Kingdom, RR 98-019B GLP, not published Syngenta File No PP321/1039 ^a	SYN	
IIA 7.1.1.2.1	Völkel W.	2005a	Tefluthrin: Degradation of PP890, a Metabolite of Tefluthrin and Lambda Cyhalothrin, in Three Soils Incubated under Aerobic Conditions Syngenta Crop Protection AG, Basel, Switzerland RCC Ltd., Itingen, Switzerland, 856646 2989-04 GLP, not published Syngenta File No PP890/0009	SYN	
IIA-7.1.1.2.1	Adam, D.	2012g	Rate of degradation of Z-cis-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid (Metabolite IA of Lambda-Cyhalothrin), - in Three Soils Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110039 GLP, not published	TFL	
IIA-7.1.1.1.2 IIA-7.1.1.2.1	Piskorski, R.	2012	¹⁴ C-Lambda-Cyhalothrin: Route and Rate of degradation in one soil under anaerobic conditions Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110034 GLP, not published	TFL	
IIA 7.1.1.1.2 IIA 7.1.1.2.1	Lowrie C.	2011b	Lambda-Cyhalothrin - Degradation of [¹⁴ C]-Lambda-Cyhalothrin Under Anaerobic Laboratory Conditions in One Soil at 20°C	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
			Syngenta Charles River Laboratories, Edinburgh, United Kingdom, 32498 GLP, not published Syngenta File No PP321_11456		
IIA 7.1.1.1.2	Green M., Jewkes Y.	2012	Lambda-cyhalothrin - Soil Surface Photolysis of [¹⁴ C]-Lambda-cyhalothrin Syngenta Charles River Laboratories, Edinburgh, United Kingdom, 32460 GLP, not published Syngenta File No PP321_11504	SYN	
IIA 7.1.2	Völkel W.	2005b	Tefluthrin: Adsorption/Desorption of [¹⁴ C]- PP890, a Metabolite of Tefluthrin and Lambda Cyhalothrin, on Three Soils Syngenta Crop Protection AG, Basel, Switzerland RCC Ltd., Itingen, Switzerland, 856645 2992- 04 GLP, not published Syngenta File No PP890/0010	SYN	
IIA 7.1.2	Adam, D.	2012f	Z-cis-3-(2-chloro-3,3,3-trifluoro-1-propenyl)- 2,2-dimethylcyclopropanecarboxylic acid (Metabolite IA of Lambda-Cyhalothrin), - Adsorption/Desorption with Three Soils Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110035 GLP, not published	TFL	
IIA 7.1.2	Will, BA	2012g	Estimation of physical-chemical properties of metabolites of lambda-cyhalothrin used in the risk assessments with EPI Suite v 4.10 DHD-Consulting GmbH, Hildesheim, Germany Report No . TFL-2012-04 Non GLP, not published	TFL	
IIA 7.2.1.1 IIA 2.9.1	Adam, D.	2012a	¹⁴ C-Lambda-Cyhalothrin: Hydrolysis at three different pH values Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110029 GLP, not published	TFL	
IIA 7.2.1.1 IIA 2.9.1	Lowrie C.	2011c	Lambda-Cyhalothrin: Hydrolysis in Sterile Buffer at pH 4, 7 and 9 Syngenta Charles River Laboratories, Edinburgh, United Kingdom, 32544 GLP, not published Syngenta File No PP321_11475	SYN	
IIA 7.2.1.2 IIA 2.9.2	Adam, D.	2012b	¹⁴ C-Lambda-Cyhalothrin: Aqueous photolysis in buffer solution at two pH values Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland IES No. : 20110030 GLP, not published	TFL	
IIA 7.2.1.2 IIA 2.9.2	Green M.	2011	Lambda-cyhalothrin: Photodegradation of [¹⁴ C]-Lambda-cyhalothrin in Sterile Buffer and Sterile Natural Water Syngenta Charles River Laboratories, Edinburgh,	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
			United Kingdom, 32459 GLP, not published Syngenta File No PP321_11474		

*: Owners' code identifications and names

SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

† Entries are based on information received from the main data submitter(s) and in certain cases Member States. Neither the Commission nor the Member States are responsible for the completeness or validity of this information received.

B.9 Ecotoxicology

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.2.1/11		2011	R211133: Acute toxicity to rainbow trout (Oncorhynchus mykiss) in a 96-hour test [REDACTED] GLP, not published Syngenta File No R211133 10003	SYN	
IIA 8.2.4/05	Liedtke A.	2011	R211133: Acute toxicity to Daphnia magna in a 48-hour immobilization test Syngenta - Jealott's Hill, Bracknell, United Kingdom Harlan Laboratories Ltd., Zelgliweg 1, 4452 Itingen, Switzerland, C19455 GLP, not published Syngenta File No R211133 10002	SYN	
IIA 8.2.4 /06	Memmert U., Bader U.	2007	Lambda-cyhalothrin - Acute Toxicity to Third-Instar Larvae of Chironomus riparius Syngenta Crop Protection AG, Basel, Switzerland RCC Ltd., Itingen, Switzerland, B42557 T001527-07 GLP, not published Syngenta File No PP321/3507	SYN	
IIA 8.2.5/10	Scheerbaum, D., Goller S.	2012	lambda-Cyhalothrin TC- Sediment-water chironomid life cycle toxicity test using spiked water Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: IZF15103 GLP, not published	TFL	
IIA 8.2.5/11	Scheerbaum, D.	2012	(Z)-3-(2-Chloro-3,3,3-trifluoropropenyl)- 2,2-dimethylcyclopropanecarboxylic acid- Sediment-Water Chironomid Toxicity Test using Spiked Water acc. to OECD Guideline 219 (2004) Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: IZW14252 GLP, not published	TFL	
IIA 8.2.5/13	Scheerbaum, D.	2012	Hydroxylated Cyhalothrin, Sediment-Water Chironomid Toxicity Test using Spiked Sediment, acc. to OECD Guideline 218 (2004) Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: IZS14485 GLP, not published	TFL	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.3.1, IIIA 10.4.5	Hecht-Rost, S.	2012	Lambda-Cyhalothrin 100 CS: A Semi-Field Brood Study to Evaluate Potential Effects of Lambda-Cyhalothrin 100 CS on Brood Development and Mortality of Adult Worker Honeybees, (<i>Apis mellifera</i> L.) Following the Application on <i>Phacelia</i> <i>tanacetifolia</i> in Switzerland Innovative Environmental Services (IES) Ltd, Witterswil, Switzerland Report No. 20110070 GLP, not published	HEL	
IIA 8.3.1, IIIA 10.4.5	Szinicz, G.	2006	Lambda-cyhalothrin (WG 50 g/kg): A semi field study to evaluate Effects on the Honey Bee (<i>Apis mellifera</i> L.) in France Eurofins-GAB GmbH, Niefern-Öschelbronn, Germany Report no 20051236/F1-BZEU	NUF	
IIA 8.3.1, IIIA 10.4.4	Balluff, M.	2000	Assessment of Side Effects of Karate WG on the honey Bee (<i>Apis mellifera</i> L.) in the Field Following Application During Bee- Flight in Spain Zeneca Agrochemicals, Jealott's Hill, United Kingdom GAB Biotechnologie GmbH, Niefern, Germany, 98139/S2-BFEU/C GLP, not published Syngenta File No PP321/1077	SYN	
IIA 8.3.1, IIIA 10.4.4	Schur, A.	2000	Assessment of side effects of Karate 10CS on the Honey Bee (<i>Apis mellifera</i> L.) in the field following application during bee- flight Syngenta Crop Protection AG, Basel, Switzerland GAB Biotechnologie GmbH, Niefern, Germany, Report no 99202/01-BFEU GLP, not published Syngenta File No PP321/2518	SYN	
IIA 8.3.2, IIIA 10.5.1	McCormac, A.	2007	PP321 CS (100) (A12690B) - A rate- response extended laboratory bioassay of the effects of fresh residues on the parasitic wasp, <i>Aphidius rhopalosiphi</i> (Hymenoptera Braconidae) Syngenta Crop Protection AG, Basel, Switzerland Mambo-Tox. Ltd., Southampton, United Kingdom, SYN-06-6 T004814-06 GLP, not published Syngenta File No PP321/3444	SYN	
IIA 8.3.2, IIIA 10.5.1	Vaughan, R.	2007	PP321 CS (100) (A12690B) - A rate- response extended laboratory bioassay of the effects of fresh residues on the predatory mite, <i>Typhlodromus pyri</i> (Acari, Phytoseiidae) Syngenta Crop Protection AG, Basel, Switzerland Mambo-Tox. Ltd., Southampton, United Kingdom, SYN-06-5 T004809-06 GLP, not published Syngenta File No PP321/3442	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.3.2, IIIA 10.5.1	Spincer, D.	2007a	PP321 CS (100) (A12690B) - A rate- response extended laboratory test to evaluate the effects of fresh residues on the green lacewing, <i>Chrysoperla carnea</i> (Neuroptera, Chrysopidae) Syngenta Crop Protection AG, Basel, Switzerland Mambo-Tox. Ltd., Southampton, United Kingdom, SYN-06-8 T004819-06 GLP, not published Syngenta File No PP321/3449	SYN	
IIA 8.3.2, IIIA 10.5.1	Spincer, D.	2007	PP321 CS (100) (A12690B) - A rate- response extended laboratory test to evaluate the effects of fresh residues on the rove beetle <i>Aleochara bilineata</i> (Coleoptera; Staphylinidae). Syngenta Crop Protection AG, Basel, Switzerland Mambo-Tox. Ltd., Southampton, United Kingdom, SYN-06-9 T004820-06 GLP, not published Syngenta File No PP321/3447	SYN	
IIA 8.3.2, IIIA 10.5.1	Vinall, S.	2007	PP321 CS (100) (A12690B) - A rate- response extended laboratory bioassay of the effects of fresh residues on the predatory bug, <i>Orius insidiosus</i> (Hemiptera, Anthocoridae) Syngenta Crop Protection AG, Basel, Switzerland Mambo-Tox. Ltd., Southampton, United Kingdom, SYN-06-7 T004817-06 GLP, not published Syngenta File No PP321/3443	SYN	
IIA 8.3.2, IIIA 10.5.1	Moll, M.	2008	Effects of Lambda-Cyhalothrin 10 CS on the parasitoid <i>Aphidius rophalosiphi</i> , Extended laboratory study – dose response test IBACON GmbH, report no 37176002 GLP Not published	HEL	
IIA 8.3.2, IIIA 10.5.1	Moll, M.	2008	Effects of Lambda-Cyhalothrin 10 CS on the predatory mite <i>Typhlodromus pyri</i> , Extended laboratory study – dose response test IBACON GmbH, report no 37177062 GLP Not published	HEL	
IIA 8.3.2, IIIA 10.5.1	Moll, M.	2008	Effects of Lambda-Cyhalothrin 10 CS on the lacewing <i>Chrysoperla carnea</i> , Extended laboratory study – dose response test IBACON GmbH, report no 37178047 GLP Not published	HEL	
IIA 8.3.2, IIIA 10.5.1	Moll, M.	2011	Effects of Lambda 50 EC on the parasitoid <i>Aphidius rophalosiphi</i> , Extended Laboratory Study - Dose response test – IBACON GmbH, Rossdorf, Germany Project No.: 66315002 GLP, not published	SPA	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.3.2, IIIA 10.5.1	Schwarz, A.	2011	Effects of Lambda 50 EC on the predatory mite <i>Typhlodromus pyri</i> , Extended Laboratory Study - Dose response test – IBACON GmbH, Rossdorf, Germany Project No.: 66316062 GLP, not published	SPA	
IIA 8.3.2, IIIA 10.5.1	Warmers, C.	2006	Lambda-cyhalothrin (WG 50g/kg): A rate response test to study the effects on the aphid parasitoid, <i>Aphidius rhopalosiphi</i> De Stefani Perez (Hymenoptera, Braconidae) under extended laboratory conditions. eurofin- GAB, Niefern-Öschelbronn, Germany; Report No 20051236/01-NEAp GLP, not published	NUF	
IIA 8.3.2, IIIA 10.5.1	Warmers, C.	2006	Lambda-cyhalothrin (WG 50g/kg): A rate response test to study the effects on the predatory mite <i>Typhlodromus pyri</i> Scheuten (Acari, Phytoseiidae) under extended laboratory conditions. eurofin- GAB, Niefern-Öschelbronn, Germany; Report No 20051236/02-NETp GLP, not published	NUF	
IIA 8.3.2, IIIA 10.5.1	Warmers, C.	2006	Lambda-cyhalothrin (WG 50 g/kg): Toxicity to predatory mite, <i>Typhlodromus pyri</i> Scheuten (Acari, Phytoseiidae) using an extended laboratory test with aged residues. eurofin- GAB, Niefern-Öschelbronn, Germany; Report No 20051236/03-NETp GLP, not published	NUF	
IIA 8.3.2, IIIA 10.5.1	Ythier, E.	2010	A fresh and aged residue study to determine the effects of lambda-Cyhalothrin 100 CS (lambda-Cyhalothrin 100 g/L) on the non-target arthropods <i>Aphidius rhopalosiphi</i> (Hymenoptera: Braconidae) and <i>Chrysoperla carnea</i> (Neuroptera: Chrysopidae) SynTech Research France S.A.S., France Report No. 90SRF09C1 GLP, not published	SAPEC	
IIA 8.3.2 IIIA 10.5.1	Luna, F.	2010	Side-effects of “Judo” (lambda-Cyhalothrin 100 g/L CS) on the predatory mite, <i>Euseius stipulatus</i> (Athias-Henriot) (Acari: Phytoseiidae) in citrus under field conditions. Trialcamp S.L.L., Spain, Report No. TRC09-11BA GLP, not published	SAPEC	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.3.2, IIIA 10.5.2	Knäbe, S.	2003	Lambda-cyhalothrin ("Karate" with ZEON Technology): Large-scale Field Programme on the Effects of Multiple Applications of a 100 g/L CS formulation (A12690B) on Arthropod Populations in Cereal Fields in Continental Europe - 1: Denmark Syngenta Crop Protection AG, Basel, Switzerland GAB Biotechnologie GmbH, Niefern, Germany, 20001041/D2-FNTO, 2012561 GLP, not published Syngenta File No PP321/1995	SYN	
IIA 8.3.2, IIIA 10.5.2	Cole, J., Chapman, P., Powley, W.	2004	Lambda-cyhalothrin ("Karate" with ZEON technology): Multivariate analysis to determine the effects of multiple applications of a 100g/L CS formulation (A12690B) on ground and crop-dwelling arthropod communities in cereal fields in Denmark Syngenta Crop Protection AG, Basel, Switzerland Syngenta, Jealott's Hill, United Kingdom, TMJ4976B Not GLP, not published Syngenta File No PP321/2204	SYN	
IIA 8.3.2, IIIA 10.5.2	Knäbe, S.	2003a	Lambda-cyhalothrin ("Karate" with ZEON Technology): Large-scale Field Programme on the Effects of Multiple Applications of a 100 g/L CS formulation (A12690B) on Arthropod Populations in Cereal Fields in Continental Europe - 2: Germany Syngenta Crop Protection AG, Basel, Switzerland GAB Biotechnologie GmbH, Niefern, Germany, 20001041/G2-FNTO, 2012559 GLP, not published Syngenta File No PP321/1994	SYN	
IIA 8.3.2, IIIA 10.5.2	Cole J., Chapman, P., Powley, W.	2004a	Lambda-cyhalothrin ("Karate" with ZEON technology): Multivariate analysis to determine the effects of multiple applications of a 100g/L CS formulation (A12690B) on ground and crop-dwelling arthropod communities in cereal fields in Germany Syngenta Crop Protection AG, Basel, Switzerland Syngenta, Jealott's Hill, United Kingdom, TMJ4977B Not GLP, not published Syngenta File No PP321/2206	SYN	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.3.2, IIIA 10.5.2	Knäbe, S.	2003b	Lambda-cyhalothrin ("Karate"): Large-scale Field Programme on the Effects of Multiple Applications of a 25 g/kg WG formulation (A12728A) on Arthropod Populations in Cereal Fields in Continental Europe - 3: Italy Syngenta Crop Protection AG, Basel, Switzerland GAB Biotechnologie GmbH, Niefern, Germany, 20001065/I1-FNTO, 2012560 GLP, not published Syngenta File No PP321/1996	SYN	
IIA 8.3.2, IIIA 10.5.2	Cole, J., Chapman, P., Powley, W.	2004b	Lambda-cyhalothrin ("Karate"): Multivariate analysis to determine the effects of multiple applications of a 125 g/Kg WG formulation (A12728A) on ground and crop-dwelling arthropod communities in cereal fields in Italy Syngenta Crop Protection AG, Basel, Switzerland Syngenta, Jealott's Hill, United Kingdom, TMJ4975B Not GLP, not published Syngenta File No PP321/2205	SYN	
IIA 8.4.1/02	Friedrich S.	2010	R211133 (metabolite of lambda-cyhalothrin): Acute toxicity to the earthworm Eisenia fetida Syngenta - Jealott's Hill, Bracknell, United Kingdom BioChem Agrar, Gerichshain, Germany, 10 10 48 055 S GLP, not published Syngenta File No R211133 10000	SYN	
IIA 8.4.2/01	Friedrich, S.	2011	Sublethal toxicity of lambda-Cyhalothrin TC to the earthworm Eisenia fetida in artificial soil with 5 % peat BioChem agrar, Labor für biologische und chemische Analytik GmbH, 04827 Gerichshain, Germany Study No.: 11 10 48 035 S GLP, not published	TFL	
IIA 8.4.2/02	Krome, K.	2011	(Z)-3-(2-Chloro-3,3,3-trifluoropropenyl)-2,2- dimethylcyclopropanecarboxylic acid Earthworm (Eisenia fetida), Effects on Reproduction Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: RBR14252 GLP, not published	TFL	
IIA 8.4.2/03	Winkelmann, G.	2011	Hydroxylated Cyhalothrin, Earthworm (Eisenia fetida), Reproduction Test Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: RBR14485 GLP, not published	TFL	

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IIA 8.4.2/03	Krome, K.	2011	3-Phenoxybenzoic acid, Metabolite V Earthworm (<i>Eisenia fetida</i>), Effects on Reproduction Dr. U. Noack-Laboratorien, Sarstedt, Germany Study No.: RBR14253 GLP, not published	TFL	
IIA 8.5/02	Schulz L.	2010	R211133: Effects on the activity of soil microflora (nitrogen and carbon transformation tests) Syngenta - Jealott's Hill, Bracknell, United Kingdom BioChem Agrar, Gerichshain, Germany, 10 10 48 039 C/N GLP, not published Syngenta File No R211133_10001	SYN	
IIA 8.6/01	Röhlig, U.	2012a	Efficacy of (S)- α -cyano-3-phenoxybenzyl (1R,3R)-3-[(Z)-2-chloro-3,3,3- trifluoropropenyl]-2,2- dimethylcyclopropanecarboxylate (<i>lambda</i> - Cyhalothrin isomer 1) against the cereal aphid <i>Rhopalosiphum padi</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048026A GLP, not published	TFL	
IIA 8.6/02	Röhlig, U.	2012b	Efficacy of (S)- α -cyano-3-phenoxybenzyl (1R,3R)-3-[(Z)-2-chloro-3,3,3- trifluoropropenyl]-2,2- dimethylcyclopropanecarboxylate (<i>lambda</i> - Cyhalothrin isomer 1) against the cereal aphid <i>Sitobion avenae</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048027A GLP, not published	TFL	
IIA 8.6/03	Röhlig, U.	2012c	Efficacy of (R)- α -cyano-3-phenoxybenzyl (1S,3S)-3-[(Z)-2-chloro-3,3,3- trifluoropropenyl]-2,2- dimethylcyclopropanecarboxylate (<i>lambda</i> - Cyhalothrin isomer 2) against the cereal aphid <i>Rhopalosiphum padi</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048028A GLP, not published	TFL	
IIA 8.6/04	Röhlig, U.	2012d	Efficacy of (R)- α -cyano-3-phenoxybenzyl (1S,3S)-3-[(Z)-2-chloro-3,3,3- trifluoropropenyl]-2,2- dimethylcyclopropanecarboxylate (<i>lambda</i> - Cyhalothrin isomer 2) against the cereal aphid <i>Sitobion avenae</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048027A GLP, not published	TFL	

Annex point / reference number	Author(s)	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant) Published or not	Owner*	Reports [†] on previous use in granting national authorizations
IIA 8.6/05	Röhlig, U.	2011a	Efficacy of (Z)-3-(2-Chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylic acid (Metabolite Ia of <i>lambda</i> -Cyhalothrin) against the cereal aphid <i>Rhopalosiphum padi</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048014A GLP, not published	TFL	
IIA 8.6/06	Röhlig, U.	2011b	Efficacy of (Z)-3-(2-Chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylic acid (Metabolite Ia of <i>lambda</i> -Cyhalothrin) against the cereal aphid <i>Sitobion avenae</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048015A GLP, not published	TFL	
IIA 8.6/07	Röhlig, U.	2011c	Efficacy of α -carboxamido-3-phenoxybenzyl(Z)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropane carboxylate (Metabolite II of <i>lambda</i> -Cyhalothrin) against the cereal aphid <i>Rhopalosiphum padi</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048016A GLP, not published	TFL	
IIA 8.6/08	Röhlig, U.	2011d	Efficacy of α -carboxamido-3-phenoxybenzyl(Z)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropane carboxylate (Metabolite II of <i>lambda</i> -Cyhalothrin) against the cereal aphid <i>Sitobion avenae</i> under extended laboratory conditions. BioChem agrar, Germany Study No.: 111048017A GLP, not published	TFL	

* Owners' code identifications and names

NUF Nufarm S.A.S (member of Syngenta Task Force)

SYN Syngenta Limited (notifier for the first inclusion, owner of studies in Syngenta Task Force renewal dossier)

TFL Task Force Lambda (dossier submitter 2 for renewal)

HEL Helm AG (member of TFL)

SAPEC SAPEC Agro S.A. (member of TFL)

SPA Sparta Research Ltd (daughter company of Stefes GmbH member of TFL)

[†] Entries are based on information received from the main data submitter(s) and in certain cases Member States. Neither the Commission nor the Member States are responsible for the completeness or validity of this information received.