

**European Union**



**Renewal of Approval under Regulation (EC)  
1107/2009 of the active substance**

**Alpha-cypermethrin**

**List of information, tests and studies which are  
considered as relied upon by the RMS for the  
evaluation with a view to the  
renewal of approval of the active substance**

(Articles 59-62 of Regulation (EC) no 1107/2009)

Rapporteur Member State: Belgium

March 2019

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## 1. Active substance

### 1.1 Identity, physical and chemical properties and further information on the active substance

#### Identity of the active substance

No non-confidential data submitted. The references are included in Volume 4.

#### Physical and chemical properties of the active substance

Data point (reference in Vol. 3 B.2)	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 2.1/01 (B.2.1/01)	Kroehl T.	2014 a	KCA 2.1/1 Physical properties of Alpha-Cypermethrin (BAS 310 I) technical grade active ingredient (TC/TGAI) manufactured at source BILAG 2014/1097996 BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

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CA 2.1/02  (B.2.1/02)	Salisbury K. et al.	1982	Physical and chemical properties of WL 85871 and some compounds important in its synthesis Shell Research Ltd.; Sittingbourne Kent ME9 8AG; United Kingdom AL-301-002  No, studies were conducted prior to the implementation of GLP but are scientifically valid unpublished	No	No		BASF	Initial monograph. Study considered as supplementary information only (KII A 2.1.2/002)
CA 2.1/03  (B.2.1/03)	Kroehl T.	2014 a	KCA 2.1/1  Physical properties of Alpha-Cypermethrin (BAS 310 I) technical grade active ingredient (TC/TGAI) manufactured at source BILAG 2014/1097996  BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
CA 2.2/01  (B.2.2/01)	Kroehl T.	2014 a	KCA 2.2/1  Physical properties of Alpha-Cypermethrin (BAS 310 I) technical grade active ingredient (TC/TGAI) manufactured at source BILAG 2014/1097996  BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

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CA 2.2/01  (B.2.2/02)	Kroehl T.	2014 i	KCA 2.2/2  Henrys law constant for Alpha-Cypermethrin (BAS 310 I, Reg.No. 4078193) 2014/1161030  BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP Unpublished	No	No	Not applicable	BASF	No, submitted for the purposed of renewal
CA 2.3/01  (B.2.3/01)	Cevasco A.	1999	Determination of the physical state, colour and odour for alphacypermethrin (AC 900049) purified active substance (PAS) and technical active substance (TAS).  Amercian Cyanamid Company P285 Not GLP Unpublished	No	No		BASF	Initial monograph September 1999
CA 2.3/01  (B.2.3/01)	Kroehl T.	2014 a	KCA 2.3/1  Physical properties of Alpha-Cypermethrin (BAS 310 I) technical grade active ingredient (TC/TGAI) manufactured at source BILAG 2014/1097996  BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purposed of renewal  Considered as additional information.
CA 2.4/01  (B.2.4/01)	Ferri, J. Zhang, Y.	1994	Spectral database for FASTAC technical (CL900049)  American Cyanamid Company APBR.342 Not GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.5.1/001)

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CA 2.4/01  (B.2.4/01)	Concha et al	2001	BAS 310I (Alphacypermethrin) : Aqueous photolysis  Generated by : BASF Report N°: ENV 01-037 GLP Unpublished	No	No		BASF	Initial monograph – addendum December 2002
CA 2.4/02  (B.2.4/02)	Ferri, J. Zhang, Y.	1994	Spectral database for FASTAC technical (CL900049)  American Cyanamid Company APBR.342 Not GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.5.1/001)
CA 2.4/03  (B.2.4/03)	Ferri, J. Zhang, Y.	1994	Spectral database for FASTAC technical (CL900049)  American Cyanamid Company APBR.342 Not GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.5.1/001)
CA 2.4/04  (B.2.4/04)	Ferri, J. Zhang, Y.	1994	Spectral database for FASTAC technical (CL900049)  American Cyanamid Company APBR.342 Not GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.5.1/001)

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CA 2.5/01 (B.2.5/01)	Baldwin M. K.	1990	Alphacypermethrin (FASTAC): Water solubility at various pH values Sittingbourne Research Centre, England Exp. No.4638 Report No. SBGR.90.158 GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.6/004)
CA 2.5/01 (B.2.5/01)	Bacher R.	2014 a	KCA 2.5/1 BAS 310 I (Alpha-Cypermethrin) technical: Water solubility (EC A.6, OECD 105) 2014/1159447 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal Considered as additional information.
CA 2.6/01 (B.2.6/01)	Bacher R.	2014 c	KCA 2.6/1 Determination of the solubility of BAS 310 I (Alpha-Cypermethrin) Technical in organic solvents 2014/1159449 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

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CA 2.7/01  (B.2.7/01)	Bacher R.	2014 b	KCA 2.7/1  Determination of the n-octanol/water partition coefficient(s) log pow of Alpha-Cypermethrin (OECD 117) 2014/1159448 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
CA 2.7/03  (B.2.7/03)	Daum A.	2018	Partition coefficient n-octanol/water (log Pow) of Reg. No 4080830 (M310I001) BASF Study ID 845143_1 BASF DocID 2018/1012456 BASF SE Crop Protection, Ecology and Environmental Analytics, DE GLP Unpublished	No	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal (additional information submitted during the peer review).
CA 2.7/04  (B.2.7/04)	Daum A.	2018	Partition coefficient n-octanol/water (log Pow) of Reg. No 130213 (M310I011) BASF Study ID 845144_1 BASF DocID 2018/1012457 BASF SE Crop Protection, Ecology and Environmental Analytics, DE GLP Unpublished	No	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal (additional information submitted during the peer review).

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CA 2.9/01  (B.2.9/01)	Van Helvoirt J.	1991a	Determination of the flammability of alphacypermethin RCC Notox B.V., The Netherlands Notox project 057296 RCC project 299441 GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.11.1/001)
CA 2.9/02  (B.2.9/02)	Van Helvoirt J.	1991b	Determination of the auto-flammability of alphacypermethin RCC Notox B.V., The Netherlands Notox project 057318 RCC project 299463 GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.11.2/001)
CA 2.11/01  (B.2.11/01)	Van Helvoirt J.	1991c	Determination of the explosive properties of alphacypermethin RCC Notox B.V., The Netherlands Notox project 057307 RCC project 299452 GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.13/001)
CA 2.13/01  (B.2.13/01)	Van Helvoirt J.	1991d	Alphacypermethrin (FASTAC): Determination of the oxidizing properties RCC Notox B.V., The Netherlands Notox project 057329 RCC project 299474 GLP Unpublished	No	No		BASF	Initial monograph September 1999  (KII A 2.15/001)

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CA 2.14/01  (B.2.14/01)	Van Helvoirt J.	1992	Alphacypermethrin (FASTAC) : determination of the density RCC Notox B. V., The Netherlands Notox project 057241 RCC project 299395 GLP Unpublished	No	No		BASF	Initial monograph September 1999 (KII A 2.2/001)  Density is not a data requirement according to Reg. (EU) 283/2013.

**Data on application and further information on the active substance**

<b>Data Point (reference in Vol. 3 B.4)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 3.8 CA 3.9 CA 3.10 (B.4.1 B.4.2 B.4.3)	unknown	2016	Material Safety Data Sheet – Not GLP Unpublished	N	N	-	BASF	-

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### 1.2 Analytical methods for the active substance

Data point* (reference in Vol. 3 B.5)	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.1(a)/01 (KCA 4.1.1/1)  (B.5.1.1)	Anonymous	1997 a	Determination of Alpha-Cypermethrin in TGAI and WP-, EC-, SC- and UL- formulations 1997/1005661 none no Published	No	No	Not applicable	public	No, submitted for the purpose of renewal
CA 4.1.1(a)/02 (KCA 1.11/1)  (B.5.1.1)	Bacher R.	2014a	Analysis of five representative batches of alpha-Cypermethrin TGAI PTRL Europe, Germany Report No. 3059 G GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.1(a)/03 (KCA 1.11/3)  (B.5.1.1)	Bacher R.	2014b	Analysis of five representative batches of alpha-Cypermethrin TGAI PTRL Europe, Germany Report No. 3069 G GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(a)/03 and CA 4.2(b)/01  (KCA 4.1.2/001 [KCA 4.1.2/5])	Carter M.L.; Perez S.	2014	Validation of BASF analytical method R0034/01 : Method for the quantitation of the diastereomeric forms of BAS 311 I (Reg. 127266) and its metabolites 3- Phenoxybenzoic acid (Reg. No. 130213) and DCVA (cis and trans isomers, Reg.	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

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(B.5.1.2.1 and B.5.2.3)			No. 180011) in soil by LC-MS/MS (amended final report) ADPEN Laboratories, Inc. Jacksonville, USA Study No: 2K13-903-405215 BASF Study No. 405215 GLP Unpublished					
CA 4.1.2(a)/04  (KCA 4.1.2/002 [KCA 4.1.2/6])  (B.5.1.2.1 but reported under B.5.2.4)	Geschke. S	2015	Validation of BASF analytical method L0286/01 : Determination of Residues of Reg. No. 6009306 (M310I017cis, hydroxylated cypermethrin) in two different Soil Types Eurofins AgroScience Services, EcoChem GmbH, Germany Study No: S14-05332 BASF DocID: 2015/1000961 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(c)/01  (KCA 4.1.2/001 [KCA 4.1.2/14])  (B.5.1.2.3)	Maas X., Bendig P.	2015 a	Alpha-Cypermethrin: Analysis of alpha- Cypermethrin in rodent samples originating from a mammalian toxicity study 2015/1175543 PTRL Europe, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(c)/02	Becker M.,	2015 a	BAS 310 I (Alpha-cypermethrin) –	No	Yes	New data for	BASF	No, submitted for the

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(KCA 4.1.2/002 [KCA 4.1.2/15])  (B.5.1.2.3)	Kamp H.		Stability Analysis in corn oil BASF SE, Experimental Toxicology and Ecology, Germany Report No.: 01Y0265/01Y012 BASF Doc: 2014/1170685 GLP Unpublished			AIR3 renewal*		purpose of renewal
CA 4.1.2(c)/03 (KCA 4.1.2/003 [KCA 4.1.2/16])  (B.5.1.2.3)	Grauert E., Kamp H.	2014 a	BAS 310 I (Alpha-cypermethrin) – Stability Analysis in 1% Carboxymethylcellulose in drinking water BASF SE, Experimental Toxicology and Ecology, Germany Report No.: 01Y0265/01Y014 BASF Doc: 2014/1275135 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(c)/04 (KCA 4.1.2/004 [KCA 4.1.2/17])  (B.5.1.2.3)	Grauert E., Kamp H.  <i>Not acceptable: Validation data of analytical method for determinatio n of alpha- cypermethri n in 0.1 %</i>	2015a	BAS 310 I (Alpha-cypermethrin) – Stability Analysis in 1% Carboxymethylcellulose in drinking water BASF SE, Experimental Toxicology and Ecology, Germany Report No.: 01Y0265/01Y016 BASF Doc: 2015/1093547 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

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	<i>CMC drinking water are required</i>							
CA 4.1.2(c)/05  (KCA 4.1.2/005 [KCA 4.1.2/18])  (B.5.1.2.3)	Becker M., Kamp H.  <i>Not acceptable: Validation data of analytical method for determination of alpha-cypermethrin in 0.1 % CMC drinking water are required</i>	2015 a	Analytical report - 3-Phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-Cypermethrin) - Concentration control analysis in Polyethylene glycol 400 2015/1003984 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(c)/06  (KCA 4.1.2/006 [KCA 4.1.2/19])	Becker M., Kamp H.	2015 b	Analytical report - 3-Phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-Cypermethrin) - Plasma analysis for external studies 2015/1032402 BASF SE, Ludwigshafen/Rhein, Germany	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

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(B.5.1.2.3)			Fed.Rep. GLP Unpublished					
CA 4.1.2(c)/07 (KCA 4.1.2/007, [KCA 4.1.2/20])  (B.5.1.2.3)	Becker M., Kamp H.	2015 c	3-Phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-Cypermethrin) - Stability analysis in DMSO (4h) 2015/1029517 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2(c)/08.1 (KCA 4.1.2/008.1 [KCA 4.1.2/21])  (B.5.1.2.3)	Dean I; Jackson, F.	1995a	WL85871: 52 Week Oral (Dietary) Toxicity Study in Dogs Inveresk Research International, Scotland Report No.: 11110 BASF Doc: AL-427-001 GLP Unpublished	Yes	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore out of protection)		BASF	Initial monograph 1999 but validation results not presented at that time
CA 4.1.2(c)/08.2 (KCA 4.1.2/008.2)	Fleck RGR, Fischer K	1992	Validation of analytical method No. 5458 for the Analysis of WL 85871 in Dog Dietary Formulations	No	Yes	New data for AIR3 renewal	BASF	No, Submitted for the purpose of the renewal

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[KCA 4.1.2/22])  (B.5.1.2.3)			Report 9087 (IRI project 354580) Inv. Research International, Scotland), GLP Unpublished					The method is an old study supporting study No. 11110 not in the renewal dossier and submitted in the course of the assessment. The study still needs to be submitted formally.
CA 4.1.2(c)/09  (KCA 4.1.2/09 [KCA 4.1.2/23])  (B.5.1.2.3)	Done J.N.	1984	Establishment of a methodology for the analysis of WL 85871 in SDS dog diet (A) and the assessment of the dietary mixing procedures and the stability of WL 85871 in SDS dog diet (A) Inveresk Research International, Scotland Report No.: 2954 BASF Doc: AL-245-004 Not GLP Unpublished	No	No		BASF	The method supports a toxicity study from initial monograph 1999 but validation results were not presented at that time
CA 4.1.2(c)/10  (KCA 4.1.2/10 [KCA 4.1.2/24])  (B.5.1.2.3)	Greenough R.J.	1984a	WL 85871: 13 week oral (dietary) toxicity study in dogs Inveresk Research International, Scotland Report No.: 631092 BASF Doc: AL-425-005 GLP Unpublished	Yes	No (data protection is claimed by BASF but the study was		BASF	initial monograph 1999 but validation results were not presented at that time

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					considered for 1 <sup>st</sup> approval and therefore now out of protection)			
CA 4.1.2(c)/11  (KCA 4.1.2/11 [KCA 4.1.2/25])  (B.5.1.2.3)	Fokkema G.N.	1993a	WL85871 (Fastac): An acute oral (gavage) neurotoxicity study in the rat Sittingbourne Research Centre, England Report No.: SBTR.92.027 BASF Doc: AL-451-004 GLP Unpublished	Yes	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Initial monograph 1999 but validation results not presented at that time
CA 4.1.2(c)/11bis	Anonymous	2016	Excerpt of rax data supporting analytical methods used in toxicological studies	No	No		BASF	No, submitted for the

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/26]  (B.5.1.2.3)			BASF SE, Limburgerhof, Germany 2016/1232572 Not GLP Unpublished					purpose of renewal
CA 4.1.2(c)/11tris  [KCA 4.1.2/27]  (B.5.1.2.3)	Anonymous	1989 a	Sittingbourne analytical method series determination of Fastac and the ratio of enantiomer pairs in technical material and formulated products liquid chromatographic method AL-210-001 Shell Research Ltd., Sittingbourne Kent ME9 8AG, United Kingdom Not GLP Unpublished	No	No		BASF	No, submitted for the purpose of renewal (study submitted in the course of the assessment)
CA 4.1.2(c)/12  (B.5.1.2.3)	Klink D.	2017	Validation of the Determination of 3-phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-Cypermethrin) – in Plasma (Mouse) Institut Kuhlmann GmbH, Ludwigshafen, Germany Report No.: GLP-020/16 BASF Report No: 10Y0418/01X092 BASF DocID: 2017/1005933 GLP Unpublished	No	Yes (?)	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided during peer review)
CA 4.1.2(e)/01	Unknown	1989	SAMS 351-02 : Determination of residues of alpha-cypermethrin in crops - Gas	No	No		BASF (previo	Initial monograph September 1999 – Vo.

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/37]  (B.5.1.2.5.1)			chromatographic method (Cyanamid Agro). Shell Research Ltd., UK. (AL-244-001).  Not GLP Unpublished				usly Cyanamid Agro)	B.4
CA 4.1.2(e)/01.2  [KCA 4.1.2/38]  (B.5.1.2.5.1)	Jones	1989	The determination of FASTAC (WL 85871) residues in oilseed rape seed – Hazleton UK – HUK Project No. 717/1  BASF DocID 1989/5000067  Not GLP Unpublished	No	No		BASF	Report submitted in the course of the assessment for comparison between methods SAMS 351-01 and 351-02  For formal reasons, the study has been provided within the EFSA peer review procedure.
CA 4.1.2(e)/04  [KCA 4.1.2/42]  (B.5.1.2.5.1)	Walker & Linkerhägner,	2000a	Alphacypermethrin (AC 900049) : Validation of the DFG method S19 (extended revision) for the determination of residues of alphacypermethrin in/on grapes, wheat grain, cabbage and oilseed rape.  Dr. Specht & Partner Chemische Laboratorien GmbH, Germany. Project No. CYA-0002V/Az. G00-0030. BASF No. AP00PT03.	No	No  (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup>		BASF	Addendum to monograph – January 2001

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			(AL-244-08, docID 2000/70000955) GLP Unpublished.		approval and therefore now out of protection)			
CA 4.1.2(e)/05 [KCA 4.1.2/43] (B.5.1.2.5.1)	Walker & Linkerhägner	2000b	Alphacypermethrin (AC 900049) : Validation of the DFG method S19 (extended revision) for the determination of residues of alphacypermethrin in processed fractions of cabbage and oilseed rape. Dr. Specht & Partner Chemische Laboratorien GmbH, Germany. Project No. CYA-0003V/Az. G00-0030. BASF No. AP00PT04. (AL-244-09, DocID 2000/70000956) GLP Unpublished.	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Addendum to monograph – January 2001
CA 4.1.2(e)/06 [KCA 4.1.2/36] (B.5.1.2.5.1)	Young H.	2001	Confirmatory analysis of BAS 310I (Alphacypermethrin) in cabbage, oilseed rape, barley grain and grapes using RLA 12644. BASF Agro Research, Hampshire, UK. Report No. 4738. (BASF Doc AL-244-010). GLP Unpublished.	No	No (data protection is claimed by BASF but the study was considered)		BASF	Addendum to initial monograph – December 2002

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
					for 1 <sup>st</sup> approval and therefore now out of protection)			
CA 4.1.2(e)/07  [KCA 4.1.2/34]  (B.5.1.2.5.1)	Atkinson S.	2002	Validation of the analytical procedure carried out for the analysis of cypermethrin isomers in cabbage, carrots and lettuce carried out in Study 83265. BASF CEMAS, Berkshire Report No. CEMR-1787. BASF Doc AL-244-012. GLP Unpublished.	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Addendum to initial monograph – December 2002
CA 4.1.2(e)/07bis  [KCA 4.1.2/41]  (B.5.1.2.5.1)	Anonymous	2016 c	Excerpt of raw data supporting analytical methods used for the analysis of plant & animal matrices 2016/1232571 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No		BASF	No, submitted for the purpose of the renewal (document submitted in the course of the assessment)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.1.2(e)/08  [KCA 4.1.2/39]  (B.5.1.2.5.1)	Smalley R.	2002	Validation of method RLA 12644 for the analysis of cypermethrin isomers in wheat straw and grain. BASF Agro Research, Hampshire, Report No. 4830. BASF Doc AL-244-011. Study No. 12644CV. GLP Unpublished.	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Addendum to initial monograph – December 2002
CA 4.1.2(e)/09  [KCA 4.1.2/40]  (B.5.1.2.5.1)	Smalley R.	2002	Method Validation of RLA 12594.01 “Analysis of Alphacypermethrin (AC900049) in Olives and Olive Oil”. PRDL, Cyanamid Agriculture Ltd., Hampshire, Report No. 4560, Study No. 99530V. BASF Doc AL-244-007. GLP Unpublished.	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Addendum to initial monograph – December 2002

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.1.2(e)/10  [KCA 4.1.2/47]  (B.5.1.2.5.1)	Stewart J	2005a	Method validation of BASF analytical method 567/0 entitled: Method for determination of Alphacypermethrin and Cypermethrin in plant matrices - Including standard stability and extract stability BASF Agro Research, NC BASF Study No. 206560 (BASF Reg. Doc. No. 2005/5000063) GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of the renewal
CA 4.1.2(e)/11  [KCA 4.1.2/48]  (B.5.1.2.5.1)	Bretz M.	2007a	Technical procedure: Method for the determination of Alphacypermethrin in plant matrices by GC-MS - BASF method number 567/1 BASF Agricultural Center Limburgerhof, Ecology and Environmental Analysis, Germany (BASF Reg. Doc. No. 2007/1010254) Not GLP Unpublished	No	No	New data for AIR3 renewal*	BASF	No, submitted for the purpose of the renewal
CA 4.1.2(e)/12	Unknown	1988	SAMS 461-01 : Determination of residues of alpha-cypermethrin in animal tissues -	No	No		BASF	Initial monograph September 1999 –

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/49]  (B.5.1.2.5.2)			Gas Liquid chromatographic method (Cyanamid Agro), AL-245-001. (KII A 4.2.5/001). Not GLP Unpublished					Vol. B.4
CA 4.1.2(e)/13  [KCA 4.1.2/50]  (B.5.1.2.5.2)	Unknown	1988	SAMS 456-01 : Determination of residues of alpha-cypermethrin in milk - Gas Liquid chromatographic method (no (Cyanamid Agro), AL-245-003. (KII A 4.2.5/003). Not GLP Unpublished	No	No		BASF	Initial monograph September 1999 – Vol. B.4
CA 4.1.2(e)/14  (KCA 6.4.1/001 [KCA 4.1.2/51])  (B.5.1.2.5.2)	Doran, Mayer & Khunachak	1999	RENEGADE alphacypermethrin (CL 900049) : validation of analytical methods SAMS 461-1 and SAMS 456-1 for the determination of alphacypermethrin residues in cattle tissues (muscle, fat, kidney and liver) and milk Inveresk Research, Scotland - RES 99-014 (part of the residue study RES 01-008 – Appendix F: FASTAC Insecticide (Alphacypermethrin, CL 900049, BAS 310I): Magnitude of Alphacypermethrin Residues in the Milk and Edible Tissues of Dairy Cattle Following Oral Administration for Twenty-Eight (28) Consecutive Days). (KCA 6.4.1/001). (AL-245-006) GLP	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)		BASF	Initial monograph – Addendum January 2001

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			Unpublished					
CA 4.1.2(e)/15  (B.5.1.2.5.2)	Fletcher	2001	FASTAC Insecticide (Alphacyperlethrin BAS 310 I): Magnitude of BAS 310 I residues in Laying Henn Eggs, Muscle, Liver and Abdominal Fat After oral Administration of BAS 310 I for 28 consecutive Days  BASF Agro Research, Princeton RES 00-052 GLP Unpublished	Yes	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)	Not applicable	BASF	Addendum to the initial monograph January 2001 but validation data were not presented in the initial monograph
CA 4.1.2(e)/17  [KCA 4.1.2/32]  (B.5.1.2.5.2)	Memmesheimer H.	1997	Analytical method FAMS 045-02 of March 31, 1995  Alpha-cypermethrin (CL 900049): Analytical method for the determination of residues in savoy cabbage, leek and wheat grain.  Cyanamid, Schwabenheim Not GLP Unpublished	No	No	New data for AIR 3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)
CA 4.1.2(e)/18	Memmesheimer	1996	Analytical method FAMS 045-02 of March 31, 1995	No	Yes	New data for AIR 3	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/33]  (B.5.1.2.5.2)	mer H.		Alpha-cypermethrin (CL 900049): Analytical method for the determination of residues in savoy cabbage, leek and wheat grain. Cyanamid, Schwabenheim GLP Unpublished			renewal*		(additional information provided within the EFSA peer review procedure)
CA 4.1.2(e)/19  [KCA 4.1.2/28]  (B.5.1.2.5.2)	Unknown	1983	Determination of residues of Ripcord (WL 43467) in crops – gas chromatographic method Shell Research Centre Sittingbourne Research Centre, USA Doc CY-244-003 Not GLP Unpublished	No	No		BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)  Note: in support of supplementary studies – Appendix Vol. 3 CA B.7
CA 4.1.2(e)/20  [KCA 4.1.2/30]  (B.5.1.2.5.2)	Cole E. and Woodbridge A.P.	1979	The development of methods for the analysis of crops and soil for residues of WL 43467 (Ripcord) and WL 43479 (Talcord) Shell Research Centre Sittingbourne Research Centre, USA Project No. SBL 79/791/I/AC 121 Doc CY-244-009 (1979/7000414) Not GLP Unpublished	No	No		BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)  Note: in support of supplementary studies – Appendix Vol. 3 CA

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
								B.7
CA 4.1.2(e)/21 [KCA 4.1.2/45] (B.5.1.2.5.2)	Schweda Z. and Rabe U.	2003	Technical Procedure: Method for the determination of BAS 310 I in plant matrices – BASF Method Number 546/0 BASF Agricultural Center Limburgerhof, Germany BASF DocID 2003/1001290 Not GLP Unpublished	No	No		BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)  Note: in support of supplementary studies – Appendix Vol. 3 CA B.7
CA 4.1.2(e)/22 [KCA 4.1.2/44] (B.5.1.2.5.2)	Rabe U. et al.	2007	Validation of the Analytical Method No. 546/0: Method for the determination of alpha-cypermethrin (BAS 310 I) in plant BASF Agricultural Center Limburgerhof, Crop Protection Division, Ecology and Environmental Analytics, Limburgerhof, Germany Study Code 182587 BASF DocID 2004/1010543 GLP Unpublished	No	Yes	New data for AIR 3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)  Note: in support of supplementary studies – Appendix Vol. 3 CA B.7
CA 4.1.2(e)/23 (KCA 6.3/75 [KCA 4.1.2/46])	Göbel R.	2006	Residue Report: Residue behavior of Alpha-cypermethrin in/on fennel, curly cale, cucumbers, carrots, radier, celery, celeriac and bunching or green onions after outdoor application of Fastac SC (SC 100)	No	No	Not applicable	BLAG-Lück (LoA to)	DRAR April 2017 Supplementary study – residue section

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.5.2)			in Germany in 2005 BASF DocID 2006/1029533 GLP Unpublished				BASF)	
CA 4.1.2(e)/24 (KCA 6.3/19 [KCA 4.1.2/31]) (B.5.1.2.5.2)	Klitsinaris A.	2000	Alpha-cypermethrin (CL 900049) 100 g a.i./L OESC: Decline Curve Residue Study on Alpha-cypermethrin in olives and olive oil – Hellas 1998 Cyanamid Hellas s.a. Study No. AL-HE-98-01 BASF DocID 2000/7000997 (AL-714-002) GLP Unpublished	No	No (data protection is claimed by BASF but the study is considered as supplementary information for the residue section)	Not applicable	BASF	DRAR April 2017 Supplementary study – residue section
CA 4.1.2(f)/01 (KCA 8.1.1.1/02 [KCA 4.1.2/55]) (B.5.1.2.6)	[REDACTED]	2009a	BAS 310 I - Acute toxicity in the Zebra finch ( <i>Taeniopygia guttata</i> ) after single oral administration (LD50) BASF Report No.: 2009/1114317 [REDACTED] GLP, not published	Yes	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
						1107/2009		
CA 4.1.2(f)/02  (KCA 8.2.2.1/03 [KCA 4.1.2/56])  (B.5.1.2.6)	[REDACTED]	2009b	BAS 310 I - Early life-stage test on the fathead minnow ( <i>Pimephales promelas</i> ) with pulse dose exposure BASF Report No.: 2009/1031203  [REDACTED] GLP, not published	Yes	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/03  (KCA 8.2.5.1/02 [KCA 4.1.2/57])  (B.5.1.2.6)	Bergtold M.	2007	Chronic toxicity of BAS 310 I to <i>Daphnia magna</i> STRAUS in a 21 day semi-static test - A time to effect study BASF Report No.: 2007/1016502 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/04  (KCA 8.2.6.2/01 [KCA 4.1.2/58])	Hoffmann F.	2009a	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the fresh water diatom <i>Navicula pelliculosa</i> - A limit test BASF Report No.: 2009/1109081 BASF SE, Limburgerhof, Germany	No	Yes	Study required to fulfil new data requirements	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			Fed.Rep. GLP, not published			according to 1107/2009		
CA 4.1.2(f)/05  (KCA 8.2.6.2/02 [KCA 4.1.2/59])  (B.5.1.2.6)	Hoffmann F.	2009b	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the blue-green alga Anabaena flos-aquae - A limit test BASF Report No.: 2009/1109080 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/06  (KCA 8.2.6.2/03 [KCA 4.1.2/60])  (B.5.1.2.6)	Hoffmann F.	2009c	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the marine diatom Skeletonema costatum - A limit test BASF Report No.: 2009/1109079 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/07  (KCA 8.2.7/01 [KCA 4.1.2/61])  (B.5.1.2.6)	Hoffmann F.	2009d	Effect of BAS 310 I (Reg.No. 4078193) on the growth of Lemma gibba - A limit test BASF Report No.: 2009/1108874 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/08	Hoffmann F.	2009e	Effect of BAS 310 51 I on the growth of the green alga Pseudokirchneriella	No	Yes	New data for AIR3	BASF	Submitted for the

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(KCP 10.2.1/03 [KCA 4.1.2/62])  (B.5.1.2.6)			subcapitata BASF Report No.: 2009/1011443 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published			renewal; Study required to fulfil new data requirements according to 1107/2009		purpose of renewal
CA 4.1.2(f)/09  (KCA 8.2.4.2/01 [KCA 4.1.2/63])  (B.5.1.2.6)	Janson G.- M. & Weltje L.	2009	Acute toxicity of BAS 310 I (Reg.No. 4078193) to larvae of the phantom midge Chaoborus crystallinus in a 48 hour static test BASF Report No.: 2009/1085205 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/10  (KCA 8.2.5.3/01 – KCA 4.1.2/64])  (B.5.1.2.6)	Janson G.- M., Dorner S. & Weltje L.	2011	Acute toxicity of Alpha-Cypermethrin (BAS 310 I) and of Cypermethrin (BAS 311 I) to the non-biting midge Chironomus riparius in a 48 hour static test BASF Report No.: 2009/1102214 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
						1107/2009		
CA 4.1.2(f)/11  (KCA 8.2.5.3/03 [KCA 4.1.2/65])  (B.5.1.2.6)	Backfisch K., Weltje L.	2011	Chronic toxicity of Reg.No. 4078193 (BAS 310 I; Alpha-Cypermethrin) to the non-biting midge Chironomus riparius - A spiked sediment study BASF Report No.: 2011/1124187 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/12  (KCA 8.2.5.4/02 [KCA 4.1.2/66])  (B.5.1.2.6)	Hoess S.	2013	Chronic toxicity of Alpha-Cypermethrin to Caenorhabditis elegans exposed via spiked sediment according to ISO guideline 10872 (2010) BASF Report No.: 2013/1250848 Ecossa - Ecological Sediment & Soil Assessment, Starnberg, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/12bis  [KCA 4.1.2/67]	Anonymous	2016 a	Except of raw data supporting analytical methods used in ecotoxicological studies 2016/1232573 BASF SE, Limburgerhof, Germany	No	No		BASF	No, submitted for the purpose of the renewal (document submitted in the course of the assessment)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			Fed.Rep. no Unpublished					
CA 4.1.2(f)/13  (KCA 8.2.5.4/01 [KCA 4.1.2/68])  (B.5.1.2.6)	Gilberg D. et al.	2013	Alpha-Cypermethrin (BAS 310 I): A study on the chronic toxicity to the sediment dweller Lumbriculus variegatus BASF Report No.: 2012/1205915 ECT Oekotoxikologie GmbH, Floersheim, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/14  (KCP 10.2.1/02 [KCA 4.1.2/69])  (B.5.1.2.6)	Janson G.-M.	2008	Acute toxicity of BAS 310 51 I to Daphnia magna STRAUS in a 48 hour static test BASF Report No.: 2008/1010445 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/15  (KCP 10.2.1/01)	[REDACTED]	2008b	BAS 310 51 I - Acute toxicity study with the rainbow trout ( <i>Oncorhynchus mykiss</i> ) in a static system over 96 hours	Yes	Yes	New data for AIR3 renewal;	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/70]  (B.5.1.2.6)			BASF Report No.: 2008/1009839  [REDACTED]  GLP, not published			Study required to fulfil new data requirements according to 1107/2009		
CA 4.1.2(f)/16  (KCP 10.1.1.2/01 [KCA 4.1.2/71])  (B.5.1.2.6)	[REDACTED]	2008d	BAS 310 51 I - Acute toxicity in the bobwhite quail ( <i>Colinus virginianus</i> ) after single oral administration (LD50)  BASF Report No : 2008/1051526  [REDACTED]  GLP, not published	Yes	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/17  (KCP 10.3.1.6/01 [KCA 4.1.2/72])  (B.5.1.2.6)	Liepold K.	2010	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in the field  BASF Report No.: 2009/1050236 Eurofins Agroscience Services GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
						1107/2009		
CA 4.1.2(f)/18  (KCP 10.3.1.6/05 [KCA 4.1.2/73])  (B.5.1.2.6)	Schmitzer S.	2010	Toxicity testing BAS 310 55 I on honey bees ( <i>Apis mellifera L.</i> ) in the field BASF Report No. : 2009/1050237 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/19  (KCP 10.3.1.6/07 [KCA 4.1.2/74])  (B.5.1.2.6)	Mack P.	2014a	Determination of residues of BAS 310 55 I in nectar, pollen and flowers of winter oil seed rape after one application in Germany 2013 BASF Report No.: 2014/1000203 Eurofins Agroscience Services EcoChem GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/20  (KCP 10.3.1.6/08 [KCA 4.1.2/75])	Mack P.	2014b	Determination of residues of BAS 310 55 I (Alpha-Cypermethrin) in nectar, pollen and flowers of winter oilseed rape after one application in a semi-field residue study with honeybees ( <i>Apis mellifera L.</i> ) in	No	Yes	New data for AIR3 renewal; Study required to	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			Germany 2014 BASF Report No.: 2015/1000382 Eurofins Agroscience Services EcoChem GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published			fulfil new data requirements according to 1107/2009		
CA 4.1.2(f)/21  (KCP 10.3.1.6/06 [KCA 4.1.2/76])  (B.5.1.2.6)	Class T.	2007	Residues of Alpha-Cypermethrin in honey and pollen  BASF Report No.: 2007/1013272 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/22  (KCA 8.3.1.3/01 [KCA 4.1.2/78])  (B.5.1.2.6)	Kleebaum K.	2014	Chronic toxicity of BAS 310 I honeybee larvae Apis mellifera L. under laboratory conditions (in vitro)  BASF Report No.: 2014/1162697 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BP	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.1.2(f)/23  (KCA 8.2.8/20 [KCA 4.1.2/79])  (B.5.1.2.6)	Class T.	2014  2016	Outdoor aquatic mesocosm study with ME solo-formulation of Alpha-Cypermethrin (BAS 310 55 I, nominal 50 g/L) - Preparation and verification of dose solutions, analysis of water and sediment samples  PTRL Europe GmbH, Ulm, Germany Fed.Rep.  Report No. P 2641  BASF Report No.: 2014/1246534 + BASF DocID 2016/1232658 for Expert Statement submitted in the course of the assessment (2016) regarding the analytical part GLP, not published [KCA 4.1.2/80]	No	Yes  (no for the expert statement)	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal  BASF DocID 2016/1232658 for Expert Statement submitted in the course of the assessment (2016) regarding the analytical part
CA 4.1.2(f)/24  (KCP 10.4.1.2/01 [KCA 4.1.2/81])  (B.5.1.2.6)	Schulz L.	2014 a	Effects of BAS 310 55 I on earthworms under field conditions  BASF Report No.: 2012/1000062  BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep.  GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
CA 4.1.2(f)/25  (KCA 8.2.4.1/02	Janson G.-M. & Weltje L.	2015	The influence of humic acid and green algae on the toxicity of BAS 310 55 I to Daphnia magna STRAUS  BASF Report No.: 2013/1404157	No	Yes	New data for AIR3 renewal; Study	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/82])  (B.5.1.2.6)			BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published			required to fulfil new data requirements according to 1107/2009		
CA 4.1.2(f)/26  (KCA 8.2.1/01 KCA 8.2.4.1/01 KCA 8.2.6.1/01 [KCA 4.1.2/83])  (B.5.1.2.6)	Stephenson R.	1981	WL85871 and cypermethrin - a comparison of their acute toxicity to <i>Salmo gairdneri</i> , <i>Daphnia magna</i> and <i>Selenastrum capricornutum</i> Study No.: 38104; BASF Report No.: AL-511-001 Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, not published	Yes	No	N/A	BASF	Original DAR (September 1999)
CA 4.1.2(f)/27  (KCA 8.2.2.1/02 [KCA 4.1.2/84])  (B.5.1.2.6)	Stephenson R.	1983	WL85871 and cypermethrin a comparative study of their toxicity to the fathead minnow <i>Pimephales promelas</i> BASF Report No.: SBGR.82.298 (AL-512-002) Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, Not published	Yes	No	N/A	BASF	Original DAR (September 1999)  The study is relied upon for the ecotox. section but the analytical method needs to be re-validated (data gap)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.1.2(f)/28  (KCA 8.2.5.1/01 [KCA 4.1.2/85])  (B.5.1.2.6)	Garforth B.M.	1982a	WL85871 and cypermethrin chronic toxicity to <i>Daphnia magna</i> BASF Report No.: AL-523-001 (Study No.: SBGR.82.119) Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, not published	No	No	N/A	BASF	In DAR (September 1999)  The study is relied upon for the ecotox. section but the analytical method needs to be re-validated (data gap)
CA 4.1.2(f)/29  (KCA 8.2.5.3/02 [KCA 4.1.2/86])  (B.5.1.2.6)	Heintze A.	1997	Alpha-cypermethrin (AC 900049): Effects on the development of sediment-dwelling larvae of <i>Chironomus riparius</i> in a water-sediment system BASF Report No.: AL-523-002 GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH, Eutinger Str. 24, D-75223 Niefern-Öschelbronn, Germany GLP, not published	No	No (data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore now out of protection)	N/A	BASF	In DAR (September 1999)
CA 4.1.2(f)/30  (KCA 8.2.6.1/02 [KCA 4.1.2/89])	Jatzek H.J.	2002b	BAS 310 I- Determination of Inhibitory Effect on the Cell Multiplication of Unicellular Green Algae BASF Report No.: 2002/1004851 (AL-520-002)	No	Yes	Study required to fulfil new data requirements	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			BASF Aktiengesellschaft, Ludwigshafen, Germany GLP, not published			according to 1107/2009		BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/31 (KCA 8.2.8/05 [KCA 4.1.2/90])  (B.5.1.2.6)	Kwasniok A. et al.	1997	Analysis of samples from a Pond enclosure study with AC900049 (alphacypermethrin) Dr. Specht and Partner Report No. CYA-9703/AzJ3916197 DocID: AL-243-029 GLP Unpublished  In support of study by Huber W. et al (2000a) - Evaluation of Effects of a 100 g/L SC Formulation (CF 06677) of AC 900049 (Alphacypermethrin) on Macroinvertebrates, Zooplankton, and Algae in Enclosures in Ponds BASF Report No.: AL-560-031 (Study No.: ECO-97-144) Institute of Aquatic Ecotoxicology (IAE), Kungelpoint 26, D-84172 Buch a. Erlbach, Germany Not GLP,	No	No (Data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore out of protection)	Study required to fulfil new data requirements according to 1107/2009	BASF	In Addendum to the DAR (November 2002)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			Not published					
CA 4.1.2(f)/32  (KCA 8.2.8/06 [KCA 4.1.2/91])  (B.5.1.2.6)	Huber W. et al	2000b	Evaluation of Possible Effects of a 100 g/L SC Formulation (CF 06677) of AC 900049 (Alphacypermethrin) on Macroinvertebrates, Zooplankton, and Algae in Pond-Enclosures and Determination of the Ecologically Acceptable Concentration (EAC) BASF Report No.: AL-560-23 (Study No.: ETX-99-101) Institute of Aquatic Ecotoxicology (IAE), Kungelpoint 26, D-84172 Buch a. Erlbach, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	In Addendum to the DAR (November 2002)
CA 4.1.2(f)/32bis  (KCA 8.1.1.2/01 [KCA 4.1.2/94])  (B.5.1.2.6)	[REDACTED]	2001a	Alphacypermethrin (BAS 310 I) – Dietary toxicity (LC50) to the northern bobwhite ( <i>Colinus virginianus</i> ) Company report: AL-534-003  [REDACTED]  GLP, not published	Yes	Yes	N/A	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
								available
CA 4.1.2(f)/33  (KCA 8.2.1/08 [KCA 4.1.2/95])  (B.5.1.2.6)	[REDACTED]	2002a	CL 912554 (Metabolite of BAS 310I, Alpha- Cypermethrin) Acute Toxicity Study on the Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) in a Static System Over 96 Hours  Company report No.: 2002/1004682 (AL- 570-011)  [REDACTED]  GLP, not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/34  (KCA 8.2.1/10 [KCA 4.1.2/96])  (B.5.1.2.6)	[REDACTED]	2002b	CL 206128 (Metabolite of BAS 310I, Alpha-Cypermethrin) Acute Toxicity Study on the Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) in a Static System Over 96 Hours  BASF Report No.: 2002/1004683 (AL- 570-013)  [REDACTED]  GLP, Not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/35	Jatzek H.J.	2001a	Reg. No. 4080830: Determination of the	No	Yes	Study	BASF	None. Only referenced

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(KCA 8.2.4.1/04 [KCA 4.1.2/98])  (B.5.1.2.6)			acute effect on the swimming ability of the water flea Daphnia magna STRAUS BASF Report No.: 2001/1017462 (AL-520-001) BASF Aktiengesellschaft, Ludwigshafen/Rhein, Germany Fed. Rep. GLP, not published			required to fulfil new data requirements according to 1107/2009		in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/36  KCA 8.2.4.1/05 [KCA 4.1.2/97]  (B.5.1.2.6)	Jatzek H.J.	2001b	CL206128 (Metabolite of BAS 310 I, alpha-cypermethrin): Determination of the acute effect on the swimming ability of the water flea Daphnia magna STRAUS BASF Report No.: 2001/1014673 (AL-570-008) BASF Aktiengesellschaft, Ludwigshafen/Rhein, Germany Fed. Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/37  KCA 8.2.6.1/04	Werner D.I.	2002a	CL 912554 (Metabolite of BAS 310I, alpha-Cypermethrin): Determination of Inhibitory Effect on the Cell Multiplication	No	Yes	Study required to fulfil new	BASF	None. Only referenced in Review Report (SANCO/4335/2000)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
[KCA 4.1.2/99]  (B.5.1.2.6)			of Unicellular Green Algae BASF Report No.: 2002/1004139 (AL-570-009) BASF Aktiengesellschaft, Ludwigshafen, Germany FLP, not published			data requirements according to 1107/2009		as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/38  (KCA 8.2.6.1/05 [KCA 4.1.2/100])  (B.5.1.2.6)	Werner D.I.	2002b	CL 206128 (Metabolite of BAS 310I, alpha-Cypermethrin): Determination of Inhibitory Effect on the Cell Multiplication of Unicellular Green Algae BASF Report No.: 2002/1004140 (AL-570-010) BASF Aktiengesellschaft, Ludwigshafen, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/39  (KCA 8.2.4.1/06 [KCA 4.1.2/102])	Jatzek H.J.	2002a	CL206969 - Determination of the acute effect on the swimming ability of the water flea Daphnia magna STRAUS BASF Report No.: 2002/1004857 (AL-570-012)	No	Yes	Study required to fulfil new data requirements	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			BASF Aktiengesellschaft, Ludwigshafen/Rhein, Germany Fed. Rep. GLP, not published			according to 1107/2009		BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
CA 4.1.2(f)/40 [KCA 4.1.2/87] (B.5.1.2.6)	Klumpp M.	1998	Alpha-Cypermethrin (CL 900049): Validation of HPLC Method for the Determination in Acetone Solutions Arbeitsgemeinschaft GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH, Germany Study Code: 96178/01-RVF Sponsor Study Number: 954-97-378 AL-249-002 GLP Unpublished	No	No	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)
CA 4.1.2(f)/41 [KCA 4.1.2/88] (B.5.1.2.6)	Mende P.	1998	Validation of a HPLC Method for the Determination of alpha-cypermethrin (CL 9000049) in Spray Solutions Arbeitsgemeinschaft GAB Biotechnologie & IFU Umweltanalytik GmbH, Germany Laboratory Project identification: 96111/01-RWF Cyanamid Study Number 954-97-370 Doc AL-243-004	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			GLP Unpublished					
CA 4.1.2(f)/42 [KCA 4.1.2/93] (B.5.1.2.6)	Fuchsbichler	1999	Validation of Method SAMS 469-2 for the Determination of Alpha-cypermethrin (AC 900049) in Pond Water and Treatment Solutions Bayerische Hauptversuchsanstalt für Landwirtschaft der TUM-Weihenstephan Report No. HVA 17/99 American Cyanamid Company Reference Number: ETX-99-405 BASF Doc. AL-243-008 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)
CA 4.1.2(f)/43 [KCA 4.1.2/92] (B.5.1.2.6)	Fuchsbichler	1999	Validation of Method SAMS 354-2 for the Determination of Alpha-cypermethrin (AC 900049) in Sediment Bayerische Hauptversuchsanstalt für Landwirtschaft der TUM-Weihenstephan Report No. HVA 19/99 American Cyanamid Company Reference Number: ETX-99-407 BASF Doc. AL-243-007 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional information provided within the EFSA peer review procedure)
CA 4.1.2(f)/44 [KCA 4.1.2/103]	Fietz G.	2001	Analysenmethode CP-Nr. 389 Bestimmung der Alpha-Cypermethrin Metabolite Reg. No 4080830 und Reg. No	No	No	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal (additional

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.1.2.6)			130213 in Wasser mittels HPLC BASF Agrarzentrum – Limburgerhof, Germany BASF DocID 2001/1015123 Not GLP Unpublished					information provided within the EFSA peer review procedure)
CA 4.1.2(f)/45  (B.5.1.2.6)	Christian Jansen	2018	Re-Validation of Analytical Method APL0445-1 = M3499.01 of BAS 310 I in Aqueous Media SGS Institut Fresenius GmbH, DE Study ID: 823901 Study No. IF-17/04226191 BASF DocID 2017/1219357	N	Not specified	New data for AIR3 renewal*	BASF	No, submitted for the purpose of the renewal (submitted on 04 April 2018) – not peer reviewed and therefore not considered relied on
CA 4.1.2(f)/46  (B.5.1.2.6)	Christian Jansen	2018	Re-Validation of Analytical Method for the Determination of Alpha-Cypermethrin (BAS 310 I) in Aqueous Media of the Ecotox Studies AL-511-001, AL-512-002 and AL-523-001 SGS Institut Fresenius GmbH, DE Study ID: 844581 Study No. IF-17/04226196 BASF DocID 2017/1219358	N	Not specified	New data for AIR3 renewal*	BASF	No, submitted for the purpose of the renewal (submitted on 04 April 2018) – not peer reviewed and therefore not considered relied on
CA 4.1.2(f)/47  (B.5.1.2.6)	Christian Jansen	2018	Re-Validation of Analytical Method SAMS 469-2 for the Determination of Alpha-Cypermethrin (BAS 310 I) in Aqueous Media of the Ecotox Studies SGS Institut Fresenius GmbH, DE Study ID: 844583	N	Not specified	New data for AIR3 renewal*	BASF	For information only. No data requirement set for that method.

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			Study No. IF-17/04226198 BASF DocID 2017/1219359					
CA 4.1.2(f)/48 (B.5.1.2.6)	Markus Andre	2018	Re-Validation of Analytical Method SAMS 354-2 of BAS 310 I in Soil and Sediment SGS Institut Fresenius GmbH, DE Study ID: 823899 Study No. IF-17/04226202 BASF DocID 2017/1218004	N	Not specified	New data for AIR3 renewal*	BASF	For information only. No data requirement set for that method.

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.1.2(g)/01  (KCA 2.5/001)  (B.5.1.2.7)	Bacher R.	2014	BAS 310 I (alpha-Cypermethrin) Technical: Water solubility (EC A.6, OECD 105) PTRL Europe Study No: P 3281 G BASF study No.: 428763_1 BASF DocID: 2014/1159447 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.1.2 (g)  [KCA 4.1.2/104]  (B.5.1.2.7)	Bohle J.F.	1991	Alphacypermethrin (FASTAC): Development of an analytical method – RCC NOTOX B.V., The Netherlands, RCC NOTOX 057331 (AL-210-004), not GLP, unpublished.	No	No	Not applicable	BASF	No, submitted for the purpose of renewal (analytical method to support results considered for first Annex I inclusion but not presented in the initial monograph)
CA 4.2(a)/01  (KCA 4.2/1)  (B.5.2.1)	Class T., Bendig P.	2014 a	Validation of the BASF analytical method L0245/01: Method for the determination of individual or combined diastereomeric forms of BAS 311 I (Cis I, Cis II(Alpha-Cypermethrin, BAS 310 I), Trans III and Trans IV) in plant matrices 2013/1361966 PTRL Europe, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(a)/02	Austin R.	2014 a	Independent laboratory validation (ILV) of	No	Yes	New data for	BASF	No, submitted for the

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(KCA 4.2/2)  (B.5.2.1)			the BASF analytical method L0245/01: Method for the determination of individual or combined diastereomeric forms of BAS 311 I (Cis I, Cis II [Alpha-Cypermethrin, BAS 310 I], Trans III and Trans IV) in plant matrices 2014/1145880 Battelle UK Ltd., Chelmsford Essex CM2 5LB, United Kingdom yes Unpublished			AIR3 renewal*		purpose of renewal
CA 4.2(a)/03  (KCA 4.2/11 [KCA 4.2/12])  (B.5.2.1)	Class T.	2015	BAS 310 I (alpha-Cypermethrin): Bridging Extractability of BAS 310 I (alpha-Cypermethrin) from Barley Grain, Olive Fruit and Orange Whole Fruit using Acetonitrile/water (3 Methods, incl. QuEChERS) or Methanol/Water/HCl (BASF Method 567/1) as Extraction Solvents PTRL Europe, Germany Report No.: 3432 G BASF Study: 428887_1 BASF DocID: 2014/1162676 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(a)/03.2  (KCA 6.2.1/1)	Schreiner D, Possienke M	2013a	Metabolism of 14C-alpha-Cypermethrin in lettuce BASF SE, Germany	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(B.5.2.1)			Study Code 408595 BASF DocID 2012/1084223 GLP Unpublished					
CA 4.2(a)/04 (KCA 4.2/3) (B.5.2.2)	Class T., Bendig P.	2014 a	Validation of the BASF analytical method L0231/01: Method for the determination of individual or combined diastereomeric forms of BAS 311 I (cis I, cis II (Alpha-cypermethrin, BAS 310 I), trans III and trans IV) in animal matrices 2013/1361967 PTRL Europe, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(a)/05 (KCA 4.2/4) (B.5.2.2)	Schernikau N.	2014 a	Independent laboratory validation of the BASF analytical method L0231/01: Determination of individual or combined diastereomeric forms of BAS 311 I (Cis I, Cis II (Alpha-Cypermethrin, BAS 310 I), trans III and trans IV) in animal matrices 2014/1145882 Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.2(a)/06  (KCA 4.2/5)  (B.5.2.2)	Fechter-Souren A. et al.	2014 a	Investigation of the extractability of BAS 310 I in samples from animal metabolism studies based on method L0231/01  2014/1145878  BASF SE, Limburgerhof, Germany  Fed.Rep.  GLP  Unpublished	Yes	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(a)/07  (KCA 4.2/6)  (B.5.2.2)	Fechter-Souren A. et al.	2014 b	Investigation of the extractability of BAS 310 I in samples from animal metabolism studies  2014/1145877  BASF SE, Limburgerhof, Germany  Fed.Rep.  GLP  Unpublished	Yes	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(b)/01  (KII A 4.2.2/001 and KII A 4.2.2/003 [KCA 4.1.2/2])  (B.5.2.3)	unknown	1990	SAMS 354-02: Determination of residues of alpha-cypermethrin in soils - Gas Chromatographic method (author not specified, 1990) (Cyanamid Agro) (AL-242-001).  Not GLP  Unpublished	No	No		BASF	Initial monograph 1999  Note: the method was a method proposed for monitoring for first Annex I inclusion. The method is no longer recommended for monitoring but is still in use as pre-registration method.

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.2(b)/01bis  [KCA 4.1.2/3]  (B.5.2.3)	Werle H.	1999	Alphacypermethrin (CL 900049): Validation of method SAMS 354-2 for the determination of residues in soils AL-242-006 BioChem GmbH, Karlsruhe, Germany Fed.Rep. GLP Unpublished	No	No (data protection is claimed by BASF but study was a study for 1 <sup>st</sup> approval and therefore out of protection)		BASF	Initial monograph 1999  Note: the method was a method proposed for monitoring for first Annex I inclusion. The method is no longer recommended for monitoring but is still in use as pre-registration method.
CA 4.2(b)/02  (KII A 4.2.2/002, (KII A 4.2.3/005)  (B.5.2.3, B.5.2.4)	Xu	2001	BAS 310 I (Alpha-cypermethrin) : Validation of Method M 3499 for the confirmation of BAS 310 I residues in water, soil and blood by GC-MS (Xu, 2001), BASF Agro Research, Princeton, RES 01-058 (AL-210-012). GLP Unpublished	No	No (data protection was claimed by BASF but the study was a study considered for the 1 <sup>st</sup> approval and therefore		BASF	Addendum to initial monograph – December 2002  Note: the method was a confirmatory method of the monitoring method proposed for first Annex I inclusion. The method is no longer recommended for monitoring but is still in use as pre-

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
					out of protection)			registration method.
CA 4.1.2(a)/05 and CA 4.2(b)/03  (KCA 4.1.2/1 [KCA 4.1.2/5])  (B.5.1.2.1 and B.5.2.3)	Carter M.L., Perez S.	2014 a	Validation of BASF analytical method R0034/01: Method for the quantitation of the diastereomeric forms of BAS 311 I (Reg. 127266) and its metabolites 3- Phenoxybenzoic acid (Reg. No. 130213) and DCVA (cis and trans isomers, Reg. No. 180011) in soil by LC-MS/MS 2014/7002375 ADPEN Laboratories Inc., Jacksonville FL, United States of America yes Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 4.2(b)/04  (KII A 4.2.3/001 [KCA 4.1.2/8])  (B.5.2.4)	Unknown	1989	SAMS 469-01: Determination of residues of alpha-cypermethrin in water - Gas chromatographic method (no author specified, 1989)  Not GLP Unpublished  in : Development of methods for the analysis of water for residues of permethrin, cypermethrin and alpha-cypermethrin (Sherren, 1989) (Cyanamid Agro), Sittingbourne Research Centre, Biotech. And Tox. Directorate, England, No. SBGR.89.128.  Not GLP Unpublished	No	No		BASF	Initial monograph 1999
CA 4.2(b)/05  (KII A 4.2.3/003 [KCA 4.1.2/7])  (B.5.2.4)	Unknown	1990	SAMS 469-02: Determination of residues of alpha-cypermethrin in water - Gas chromatographic method (no author specified, 1990) (Cyanamid Agro), Sittingbourne Research Centre, Biotech. And Tox. Directorate, England (AL-243-001).  Not GLP Unpublished	No	No		BASF	Initial monograph 1999
CA 4.2(b)/06	Werle	1999	Validation of the method SAMS 469-2 for	No	No		BASF	Initial monograph

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(KII A 4.2.3/004 [CA 4.1.2/10])  (B.5.2.4)			the determination of residues in surface water (Werle, 1999) (Cyanamid Agro) (AL-243-006) Biochem GmbH, Germany. GLP Unpublished		(data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore out of protection)			1999
CA 4.2(b)/06bis  (KII 4.2.3/002 [ CA 4.1.2/9])  (B.5.2.4)	Pelz S. et al.	1997	Validation of method SAMS 469-2 for the determination of AC 900049 (Alphacypermethrin) applied as a formulation (FastacTM 100 G/L OESC insecticide) in pond water AL-243-003 Dr. Specht & Partner Chemische Laboratorien GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	No (Data protection is claimed by BASF but the study was considered for 1 <sup>st</sup> approval and therefore out of protection)		BASF	Initial monograph 1999
CA 4.2(b)/07	Andrews	2015 a	Validation of method D1413/01	No	Yes	New data for	BASF	No, submitted for the

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
(KCA 4.2/007)  (B.5.2.4)	R.S.		(L0258/01): Method for the determination of Diasteromers of BAS 311 I and metabolites 3-Phenoxybenzoic acid (Reg. No. 130213), DCVA (cis and trans isomers, Reg. No. 180011) and 3-Phenoxybenzaldehyde (Reg. No. 4080665) in water by LC-MS/MS 2014/7002180 BASF Crop Protection, Research Triangle Park NC, United States of America GLP Unpublished			AIR 3 renewal*		purpose of renewal
CA 4.2(b)/08  (KCA 4.2/008)  (B.5.2.4)	Perez, S., Perez R., Adams J.	2015	Independent Laboratory Validation of Method D1413: Method for the Determination of Diasteromers of BAS 310 I and Metabolites 3-Phenoxybenzoic acid (Reg. No. 130213), DCVA (Cis and Trans Isomers, Reg. No. 180011) and 3-Phenoxybenzaldehyde (Reg. No. 4080665) in Water by LC-MS/MS 2014/7002181 GLP Unpublished	No	yes	New data for AIR 3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(c)/03  (KCA 4.2/9)  (B.5.2.5)	Bendig P., Class T.	2013 a	Development and validation of an analytical method for the determination of Alpha-Cypermethrin (BAS 310 I) in air 2013/1281809 PTRL Europe, Ulm, Germany Fed.Rep.	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point*</b> <b>(reference in Vol. 3 B.5)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
			yes Unpublished					
CA 4.2(d)/03 (KCA 4.2/10 [KCA 4.2/11]) (B.5.2.6)	Bendig P.	2014 a	Validation of BASF analytical method L0246/01: Method for the determination of individual or combined diasteromeric forms of BAS 311 I (Cis I, Cis II (alpha-Cypermethrin, BAS 310 I), Trans III and Trans IV) in body fluids 2014/1145911 PTRL Europe, Ulm, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of renewal
CA 4.2(d)/04 [KCA 4.2/10] (B.5.2.6)	Maas X., Bendig P.	2015	Validation of analytical method L0265/02 for the determination of alpha-Cypermethrin (BAS 310 I) in air PTRL Europe, Germany 2015/1225669 GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, Submitted for the purpose of renewal (EFSA peer review)

(data point as initially referenced by notifier in AIR 3 dossier [reference in the updated dossier July 2017])

\* Pursuant to art. 59 of Regulation (EC) No. 1107/2009

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

### 1.3 Toxicological and metabolism studies on the active substance

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 5.1.1/2	[REDACTED]	2014 a	Metabolism of 14C-Alpha-Cypermethrin (BAS 310 I) after oral administration in rats 2013/1086630  [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.1/2	[REDACTED]	2005 b	BAS 310 I (Alpha-Cypermethrin) - Acute oral toxicity study in rats 2005/1011604  [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.2/1	[REDACTED]	2005 c	BAS 310 I (Alpha-Cypermethrin) - Acute dermal toxicity study in rats 2005/1011569  [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.2/2	[REDACTED]	2005 d	BAS 310 I (Alpha-Cypermethrin) - Acute dermal toxicity study in rats 2005/1011605  [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.3/1	[REDACTED]	2005 e	BAS 310 I (Alpha-Cypermethrin) - Acute inhalation toxicity study in Wistar rats - 4-hour dust exposure 2005/1013246	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			[REDACTED] yes Unpublished					
KCA 5.2.3/2	[REDACTED]	2005 a	BAS 310 I (Alpha-Cypermethrin) - Acute inhalation study in Wistar rats - 4-hour dust exposure 2005/1015687 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.4/1	[REDACTED]	2005 a	BAS 310 I (Alpha-Cypermethrin) - Acute dermal irritation / corrosion in rabbits 2005/1011570 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.4/2	[REDACTED]	2005 b	BAS 310 I (Alpha-Cypermethrin) - Acute dermal irritation/corrosion in rabbits 2005/1011606 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.5/1	[REDACTED]	2005 c	BAS 310 I (Alpha-Cypermethrin) - Acute eye irritation in rabbits 2005/1011571 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.5/2	[REDACTED]	2005 d	BAS 310 I (Alpha-Cypermethrin) - Acute eye irritation in rabbits	Yes	Yes	New data for AIR3	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			2005/1011607 [REDACTED] yes Unpublished			renewal		
KCA 5.2.6/1	[REDACTED]	2005 f	BAS 310 I (Alpha-Cypermethrin) - Maximization test in guinea pigs 2005/1011608 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.6/2	[REDACTED]	2005 g	BAS 310 I (Alpha-Cypermethrin) - Maximization test in guinea pigs 2005/1011572 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.2.7/1	Cetto V., Landsiedel R.	2013 a	BAS 310 I (Alphacypermethrin) - In vitro 3T3 NRU phototoxicity test 2013/1389105 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.7.1/3	[REDACTED]	2015 a	BAS 310 I (Alphacypermethrin) - Developmental neurotoxicity screening study in Wistar rats - Oral administration of the dams and pups (gavage) 2015/1001621 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 5.8.1/37	Bohnenberger S.	2014 a	3-Phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-Cypermethrin): Micronucleus test in Chinese Hamster V79 cells in vitro 2014/1168736 Harlan Cytotest Cell Research GmbH, Roseldorf, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.8.1/38	[REDACTED]	2014	3-phenoxybenzoic acid (metabolite of BAS 310 I, Alpha-cypermethrin) Micronucleus Assay in bone marrow Cells of the Mouse 2015/1001101 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.8.2/2	[REDACTED]	2010 a	BAS 310 I (Alpha-Cypermethrin) - Immunotoxicity study in male Wistar rats - Administration via the diet for 4 weeks 2010/1057357 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCA 5.8.3/50	[REDACTED]	2014	BAS 310 I (Alphacypermethrin) 15-day intact adult male rat assay administration by gavage 2014/1275120 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 5.8.3/51	[REDACTED]	2014 a	BAS 310 I - Test study in male Wistar rats administration by gavage for 14 days 2014/1289319 [REDACTED] no Unpublished	Yes	No	Not applicable	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

**1.4 Residues in or on treated products, food or feed (active substance)**

Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i>	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 6.1	Müller U.	1998	Alpha-cypermethrin (CL 900049): storage stability of CL 900049 residues at <-18°C in cereal whole green plant, grain and straw. Report No CFS 1998-097; BASF RDI no AL-730-066; BASF DocID 1998/7001651  Yes Unpublished	No	No	Not applicable	BASF	DAR addendum (January 2003)
KCA 6.1/1	Mueller U.	1998 a	Alphacypermethrin (CL 900049): Storage stability of CL 900049 residues at < -18 C in lettuce (Germany, 1997) Report No CFS 1998-026 AL-726-015 Cyanamid Forschung GmbH, Schwabenheim, Germany Fed.Rep. BASF DocID 1998/7001641 yes Unpublished	No	No	Not applicable	BASF	Review Report SANCO/4335/ 200 final, (13 February 2004) – App. IIIB

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference (cf. Reg. (EU) No 283/2013)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.1/2	Mueller U.	1998 b	Alphacypermethrin (CL 900049): Storage stability of CL 900049 residues at < -18 degree C in tomatoes (Germany 1997) Report No CFS 1998-098 AL-723-029 Cyanamid Forschung GmbH, Schwabenheim, Germany Fed.Rep. BASF DocID no 1998/7001639 yes Unpublished	No	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.1/3	Dale T.	2003 a	Alphacypermethrin - Freezer storage stability in oil seed rape (whole plant, whole pod and seed) (Final Report) Technical report no RLG 4923 2003/1009948 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.1/4	Dale T.	2003 b	Alphacypermethrin - Freezer storage stability in oil seed rape (whole plant, whole pod and seed) 2003/1009950 BASF plc, Gosport Hampshire PO13 0AU, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.1/5	Porto F.	2014 a	Investigation of the storage stability of Alphacypermethrin residues in pineapple (fruit), barley (grain) and bean (seed) at -20°C Report No 331420 2014/3006687 BASF SA, Guaratingueta, Brazil yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.1 <i>(see KCA 6.4.1/1)</i>	[REDACTED]	2001 a	Fastac insecticide (Alphacypermethrin - BAS 310 I): Magnitude of BAS 310 I residues in laying hen eggs, muscle, liver and abdominal fat after oral administration of BAS 310 I for 28 consecutive days Report no RES 00-052; BASF RDI no AL-440-018 [REDACTED] yes Unpublished	Yes	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.1	Bixler, T., Kukel, C.	2001	CL 900049 (alpha-cypermethrin): Solubility in Acetone:Hexane, Stability in Hexane and Freezer Storage Stability of CL 900049 Residues in Cattle Tissues (Muscle, Liver, Kidney and Fat) and Milk Maxim Technologies, Inc. Middleport, NY, USA. Study No.: AP00PT05. Report No. RES 01-002 BASF RDI No. AL-326-035 Yes unpublished	No	No	n.a.	BASF	Review Report SANCO/4335/200 final, (13 February 2004) – App. IIIB
CA 6.2.1 <i>(supportive information)</i>	Dutton, A. Roberts, T.	1978	THE METABOLISM OF WL43481 AND WL42641, THE CIS- AND TRANS-ISOMERS OF THE INSECTICIDE WL 43467 (CYPERMETHRIN), IN APPLE FRUIT AND FOLIAGE GROWN OUTDOORS Report No.: BLGR.78.054 (994-06032) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	n.a.	BASF	DAR Cypermethrin (Oct. 1999); See also DRAR Cypermethrin (BE, 2017)
CA 6.2.1 <i>(supportive information)</i>	Mc Minn A.	1983	The degradation of the pyrethroid insecticides WL85871 (FASTAC) and WL43481 in cabbage Generated by: Shell International Chemical Company Submitted by: American Cyanamid Company SRC Sittingbourne SBGR.83.396 AL-640-001 Non-GLP Unpublished	No	n.a.	n.a.	BASF	DAR (September 1999)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.2.1 <i>(supportive information)</i>	Mercer, A. Hill, A. Standen, M.	1994a	<sup>14</sup> C WL85871 alphacypermethrin characterisation of the terminal residues in mature wheat treated with vinyl <sup>14</sup> C WL85871 formulated as CF05898 interim report Generated by: American Cyan. Co. Submitted by: American Cyan. Co. SRC SBTR.93.070 AL-640-002 April 1994a Yes unpublished	No	n.a.	n.a.	BASF	DAR (September 1999)
CA 6.2.1 <i>(supportive information)</i>	Mercer, A. Hill, A. Standen, M.	1994b	<sup>14</sup> C WL85871 alphacypermethrin characterisation of the terminal residues in mature wheat treated with benzyl <sup>14</sup> C WL85871 formulated as CF05898 interim report Generated by: American Cyan. Co. Submitted by: American Cyan. Co. SRC SBTR.93.071 AL-640-003 April 1994b Yes unpublished	No	n.a.	n.a.	BASF	DAR (September 1999)
CA 6.2.1	Chapleo S.	2001	Fastac Alphacypermethrin (BAS 310I, CL 900049) - Metabolism of ( <sup>14</sup> C)-CL 900049 in wheat - Report Amendment 1 Inveresk Research; Tranent East Lothian EH33 2NE; United Kingdom AL-640-004 Yes unpublished	No	n.a.	n.a.	BASF	DAR addendum (January 2003)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.1/1	Schreiner D. Possienke M.	2013 a	Metabolism of 14C-Alpha-Cypermethrin in lettuce 2012/1084223 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.2.1/2 <i>(supportive information)</i>	Fujisawa T. et al.	2009 a	Application of separated leaf cell suspension to Xenobiotic - Metabolism in plant 2009/1131382 <i>J. Agric. Food Chem.</i> 2009, 57, 6982-6989 no Published	No	No	Not applicable	public	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.2.1 <i>(supportive information)</i>	Leahy, J.P., Taylor & Francis	1985	The Pyrethroid Insecticides. ISBN 0-85066-283-4 Chapter 5: Metabolism and environmental degradation. pp. 263-342 BASF DocID 1985/1002432 No Published	No	No	Not applicable	public	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.2.1 <i>(supportive information)</i>	Ohkawa, H., Kaneko, H. and Miyamoto, J.,	1977	Metabolism of Permethrin in Bean Plants <i>J. Pestic. Sci.</i> , 2, 67-76 BASF DocID 1976/1001485 No Published	No	No	Not applicable	public	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.2.1 <i>(supportive information)</i>	Wu, S.S. & Lee, A-H	1999	Alpha-cypermethrin metabolism in plants Position paper (July 1, 1999) BASF DocID 1999/5000380 No Unpublished	No	No	Not applicable	BASF	DAR (September 1999)
CA 6.2.1 <i>(supportive information)</i>	Wu, S.S. & Lee, A-H	2001	Isomerization and Metabolism of Cypermethrin in Plants Position paper (May 29, 2001) BASF DocID 2001/5003878 No Unpublished	No	No	Not applicable	BASF	original EU peer review (evaluation table Doc. SANCO/4334/2001 rev.2-1 (06.11.2003))
CA 6.2.1 <i>(supportive information)</i>	Lee, A-H.	2002	Assessment of the metabolism, distribution and expression of residue in cabbage and oil seed rape Position paper (April 2002) BASF DocID 2002/5004755 No Unpublished	No	No	Not applicable	BASF	original EU peer review (evaluation table Doc. SANCO/4334/2001 rev.2-1 (06.11.2003))
CA 6.2.1 <i>(supportive information)</i>	Furuzawa, K., Mikami, N., Yamada, H., Miyamoto, J.	1986	Metabolism of the pyrethroid insecticide Cypermethrin in cabbages. <i>J. Pestic. Sci.</i> , 11, 253-260, 1986 Not GLP, published	N	N	not applicable	Not relevant (publication)	DAR Beta-cypermethrin (2013) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.1/02 <i>(supportive information)</i>	Wright, A.N.	1977	THE METABOLISM OF WL 43467 IN LETTUCE AND SOIL UNDER OUTDOOR CONDITIONS Report No.: BLGR.0181.77 SBL 11 / 77 / I/AC 406 (994-06033) Shell Research Limited, Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	Arysta LifeScience Benelux sprl	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)
KCA 6.2.1/03 <i>(supportive information)</i>	Gilham, J.	1976	THE METABOLISM OF WL43467 IN COTTON FOLIAGE AND LETTUCE IN GLASSHOUSES Report No.: WKGR.76.092 (994-06034) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	BASF	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)
KCA 6.2.1/04 <i>(supportive information)</i>	Dutton, A. Wright, A.	1977	THE METABOLISM OF [ <sup>14</sup> C]-WL43467 IN COTTON. PART II FURTHER STUDIES WITH PLANTS TREATED IN THE GLASSHOUSE Report No.: BLGR.77.157 (994-06035) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	BASF	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.1/05 <i>(supportive information)</i>	Hitchings, E. Wright, A.	1979	THE METABOLISM OF 14C LABELLED WL43467 IN COTTON GROWN OUTDOORS IN SPAIN Report No.: BLGR.79.124 (994-06036) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	BASF	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)
KCA 6.2.1/06 <i>(supportive information)</i>	Edwards, V.	1979	THE METABOLISM OF WL43467 IN SOYA BEAN IN THE GLASSHOUSE Report No.: BLGR.79.089 (994-06037) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	BASF	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)
KCA 6.2.1/07 <i>(supportive information)</i>	Standen, M.	1980	THE APPLICATION OF PLANT TISSUE CULTURE TO PESTICIDE METABOLISM STUDIES METABOLISM OF WL43467 AND WL44607 IN SOYABEAN TISSUE CULTURE Report No.: BLGR.80.053 (994-06038) Shell Toxicology Laboratory (Tunstall), Sittingbourne, United Kingdom Not GLP, unpublished	N	N	Study was part of the original dossier	BASF	DAR Cypermethrin (Oct. 1999) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.1/08	Curry, S. J.	2007	NATURE OF THE RESIDUE: METABOLISM OF FOLIARLY APPLIED ZETA-CYPERMETHRIN IN/ON CORN Report No.: P-3934 (994-06009) GLP Unpublished	N	N	Study was part of the Zeta-Cypermethrin DAR/Addendum (not physically available to applicant AIR)	FMC Corporation	Zeta-cypermethrin DAR addendum (July 2008) DRAR Cypermethrin (2018)
CA 6.2.1 <i>(supportive information)</i>	Reynolds, J.L.	1982	METABOLISM OF BENZYL-14-C-CYPERMETHRIN IN/ON LETTUCE PLANTS FMC Toxicology Laboratory, Princeton, NJ, USA P-0540 No No	N	N	Study was part of the Zeta-Cypermethrin DAR (not physically available to applicant AIR)	FMC Corporation	DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)
CA 6.2.1	Comezoglu, S.N.; Ly, V.T.	1996-02-26	METABOLISM OF [14C] CYPERMETHRIN IN SUGAR BEET Xeno Biotic Laboratories, Inc., Plainsboro, NJ, USA RPT00255 Yes No	N	N	Study was part of the Zeta-Cypermethrin DAR (not physically available to applicant AIR)	FMC Corporation	DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.2.1 <i>(supportive information)</i>	George, M.P.	1995	NATURE OF THE RESIDUE: METABOLISM OF CYPERMETHRIN IN/ON FIELD CORN PLANTS FMC Corporation, Agricultural Chemical Group, Richmond, CA, USA 191COF93M1 Yes No	N	N	Study was part of the Zeta-Cypermethrin DAR (not physically available to applicant AIR)	FMC Corporation	DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)
CA 6.2.1 <i>(supportive information)</i>	El Naggar, S.F.	1993	NATURE OF THE RESIDUE IN PLANTS: COTTON METABOLISM OF 14C-CYPERMETHRIN FMC Toxicology Laboratory, Princeton, NJ, USA 191COT91M1 (P-2748) Yes No	N	N	Study was part of the Zeta-Cypermethrin DAR (not physically available to applicant AIR)	FMC Corporation	DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)
CA 6.2.2 <i>(supportive information)</i>	[REDACTED]	2001	Fastac Alphacypermethrin (BAS 310 I, CL900049): Metabolism of (14C) CL 900049 in laying hen [REDACTED] AL-440-021 Yes unpublished	Yes	No	Not applicable	BASF	DAR addendum (January 2003)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.2/1	[REDACTED]	2014 a	The metabolism of (14C)-Reg.No. 4078193 (BAS 310 I) in laying hens 2014/1140293 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.2.2/02 <i>(supportive information)</i>	[REDACTED]	1993	NATURE OF THE RESIDUE IN LIVESTOCK: METABOLISM OF 14C-CYPERMETHRIN IN LAYING HENS Report No.: 191POU91M1, P-2851 (994-06010) GLP Unpublished	Y	N	Study was part of the Zeta-Cypermethrin DAR (not physically available to applicant AIR)	FMC Corporation	DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.2.3 <i>(supportive information)</i>	[REDACTED]	1994	Alphacypermethrin metabolism of <sup>14</sup> C WL85871 After repeated oral dosing in the lactating cow in life phase and metabolite profiling  [REDACTED]  Submitted by: American Cyanamid Company SRC SBTR.93.063 Yes Unpublished	Yes	No	Not applicable	BASF	DAR (September 1999)
KCA 6.2.3/1	[REDACTED]	2014 a	The Metabolism of 14C Reg. No 4078193 (BAS 310 I) in lactating goats  Study No 408599 2014/1083330  [REDACTED]  yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.2.3 <i>(supportive information)</i>	[REDACTED]	1978	THE EXCRETION AND RESIDUES OF RADIOACTIVITY IN COWS TREATED ORALLY WITH 14C LABELLED WL43467 Report No : TLGR 78 029 (994-06040)  [REDACTED]  Not GLP, unpublished	Y	N	Study was part of the original dossier	BASF	DAR cypermethrin (Oct. 1999) + DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.3 <i>(supportive information)</i>	[REDACTED]	1985	EXCRETION AND RESIDUES OF THE PYRETHROID INSECTICIDE CYPERMETHRIN IN LACTATING COWS Report No.: CYP/M25 (994-06042) Pestic. Sci., 1985, 16, 287-301 Not GLP, published	Y	N	Study was part of the original dossier	Not relevant (publication)	DAR cypermethrin (Oct. 1999) + DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)
KCA 6.2.3 <i>(supportive information)</i>	[REDACTED]	1980	THE METABOLIC FATE OF CYPERMETHRIN IN THE COW ELIMINATION AND RESIDUES DERIVED FROM 14C BENZYL LABELLED WL43467 Report No : TLGR 80 121 (994-06043) [REDACTED] Not GLP, unpublished	Y	N	Study was part of the original dossier	BASF	DAR cypermethrin (Oct. 1999) + DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.2.3/04 <i>(supportive information)</i>	[REDACTED]	1976	THE EXCRETION OF RADIOACTIVITY FROM COWS FED WITH RADIOACTIVELY LABELLED WL43467 Report No.: TLGR 76.075 (994-06044) [REDACTED] Not GLP, unpublished	Y	N	Study was part of the original dossier	BASF	DAR cypermethrin (Oct. 1999) + DAR zeta-cypermethrin (2006) DRAR Cypermethrin (2018)
KCA 6.2.5/1	[REDACTED]	2014 a	The metabolism of 14C-Alphacypermethrin ([14C]-BAS 310 I) in rainbow trout 2014/1147368 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.1/2	Schulz H.	2007 a	Study on the residue behaviour of Alpha-Cypermethrin in cucumber after treatment with BAS 310 40 I under greenhouse conditions in Southern France, Germany, Belgium, Denmark, Italy, Spain and Greece, 2005 2006/1036934 SGS Institut Fresenius GmbH, Taunusstein, Germany Fed. Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.2/1	North L.	2007 a	Study on the residue behaviour of Alpha-Cypermethrin in curly kale after treatment with BAS 310 40 I under field conditions in Northern and Southern Europe during 2005 2006/1026862 Agrisearch UK Ltd., Melbourne Derbyshire DE73 1AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.2/2	Diehl M.	2007 a	Study on the residue behaviour of BAS 310 I in leafy cabbage after treatment with BAS 310 40 I under open field conditions in Southern and Northern Europe, 2006 2007/1013342 RCC Ltd., Itingen, Switzerland yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.2/5	Klimmek S. Gizler A.	2014 e	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in cabbage (chinese) after two applications with BAS 310 55 I under field conditions in Southern France, Greece, Italy and Spain, 2013 2013/1416285 + Amendment no 1 to final report (BASF DocID 2016/1154540) Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.3/1	North L.	2007 b	Study on the residue behaviour of Alpha-Cypermethrin in head lettuce after treatment with BAS 310 40 I under field conditions in Northern and Southern Europe during 2005 2006/1026855 Agrisearch UK Ltd., Melbourne Derbyshire DE73 1AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.3/2	Oxspring S.	2007 a	Study on the residue behaviour of Alpha-Cypermethrin in head lettuce after treatment with BAS 310 40 I or BAS 310 08 I under field conditions in Northern and Southern Europe during 2006 2007/1007938 Agrisearch UK Ltd., Melbourne Derbyshire DE73 1AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.3/3	Diehl M.	2007 b	Study on the residue behaviour of BAS 310 I in head lettuce after treatment with BAS 310 40 I under open field conditions in Southern and Northern Europe, 2006 2007/1008496 RCC Ltd., Itingen, Switzerland yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.3/4	Klimmek S. Gizler A.	2014 a	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in lettuce (open leaf varieties) after two applications with BAS 310 55 I under field conditions in Southern France, Greece, Italy and Spain, 2013 2014/1140312 Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.3 <i>(IIA 6.3/14)</i>	Trewhitt J., Zimmermann U.	2002	Study on the Residue Behavior of Alphacypermethrin (AC 900049) in Winter Oil Seed Rape After Treatment with BAS 310 08 I Under Field Conditions in France (S) and Spain, 2001 BASF Agricultural Center Limburgerhof, Germany Report No. 4807 BASF RDI-No.AL-750-041 BASF DocID 2002/1004087 Unpublished	No	No	Not applicable	BASF	DAR addendum (BE, 2003)
KCA 6.3.4/1	Oxspring S.	2008 a	Study on the residue behaviour of Alpha-Cypermethrin in oilseed rape after treatment with BAS 310 40 I under field conditions in Northern and Southern Europe during 2007 2008/1019999 Agrisearch UK Ltd., Melbourne Derbyshire DE73 8AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference (cf. Reg. (EU) No 283/2013)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.4/3	Plier S.	2014 a	Determination of residues of BAS 310 I (Alpha-Cypermethrin) in oilseed rape after application of BAS 310 55 I in Germany, Belgium, France (South), Greece, Italy and Spain, 2012 2013/1037957 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.4/4	Klimmek S. Gizler A.	2014 b	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in oilseed rape after two applications with BAS 310 55 I under field conditions in Germany, Belgium, N-France, The Netherlands, S-France, Greece, Italy and Spain, 2013 2013/1416283 Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.5/1	Tandy R.	2014 a	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in barley after treatment with BAS 310 55 I in Northern and Southern Europe during 2012 2013/1388974 Eurofins Agroscience Services, Melbourne Derbyshire DE73 8AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.5/2	Tandy R.	2014 c	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in barley after treatment with BAS 310 55 I in Southern Europe during 2013 2013/1416281 Eurofins Agroscience Services Ltd., Melbourne Derbyshire DE73 8AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.5/3	Klimmek S. Gizler A.	2014 c	Study on the residue behaviour of Alpha-cypermethrin (BAS 310 I) in barley after two applications with BAS 310 55 I under field conditions in Germany, United Kingdom, The Netherlands, Belgium, Italy, Spain, Southern France and Greece, 2013 2013/1416284 Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.5/4	Klimmek S.	2014 a	Study on the residue behaviour of alpha-cypermethrin (BAS 310 I) in barley after two applications with BAS 310 55 I under field conditions in United Kingdom, 2014 2014/1173599 yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.6/1	Kreke N. Gehl J.	2008 b	Residues of Alpha-Cypermethrin and Acetamiprid in wheat (RAC whole plant, straw and grain) following two treatments with BAS 370 00 I, BAS 310 40 I or BAS 9111 0 I from eight open field trials in Northern and Southern Europe in 2007 2008/1002701 RCC Ltd., Itingen, Switzerland yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.6/2	Tandy R.	2014 d	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in wheat after treatment with BAS 310 55 I in Northern and Southern Europe during 2012 2014/1028112 Eurofins Agroscience Services, Melbourne Derbyshire DE73 8AG, United Kingdom yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.3.6/3	Klimmek S. Gizler A.	2014 d	Study on the residue behaviour of Alpha-Cypermethrin (BAS 310 I) in wheat after two applications with BAS 310 55 I under field conditions in Germany, Northern France, Italy and Spain, 2013 2013/1416282 Eurofins Agroscience Services Chem GmbH, Hamburg, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.3.6	Klaas, P. Ziske, J.	2009	Study of the residue behaviour of alpha-cypermethrin in wheat after treatment with BAS 310 51 I and BAS 310 40 I under field conditions in Germany, Northern France, Italy and Spain, 2008. BASF study code 319700; BASF Doc ID no 2009/1090705 Report no IF-08/01104894; SGS Institut Fresenius GmbH, Taunusstein, Germany GLP Not published	N	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see revised DRAR (March 2018)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.4.1/1	[REDACTED]	2001 a	Fastac insecticide (Alphacypermethrin - BAS 310 I): Magnitude of BAS 310 I residues in laying hen eggs, muscle, liver and abdominal fat after oral administration of BAS 310 I for 28 consecutive days Report no RES 00-052; BASF RDI no AL-440-018  [REDACTED] yes Unpublished	Yes	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.4.2	[REDACTED]	2001	FASTAC insecticide (Alphacypermethrin, CL 900049, BAS 310I): Magnitude of Alphacypermethrin Residues in the Milk and Edible Tissues of Dairy Cattle Following Oral Administration for Twenty-Eight (28) Consecutive Days. RES 01-008, 12 October 2001	Y	N	Not applicable	BASF	DAR addendum (January 2003)
CA 6.5.1	Afzal, J.	2001	BAS 310 I (AC 900049): Effects of Processing on the Nature of the Residues due to Hydrolysis BASF Corporation, BASF Agro Research, Princeton, NJ. BASF Report Number ENV 01-006 and Report Amendment. BASF RDI No.: AL-790-046 Yes Unpublished	N	N	Not applicable	BASF	Review Report SANCO/4335/200 final, (13 February 2004) – App. IIIB DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.5.1/1  <i>(supportive information)</i>	Lin H.-M. <i>et al.</i>	2004 a	Stability of the insecticide Cypermethrin during tomato processing and implications for endocrine activity 2005/1043620 <i>Food Additives and Contaminants, January 2005; 22(1): 15-22</i> no Published	No	No	Not applicable	public	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.5.3/1	Schulz H.	2007 c	Study on the residue behaviour of Alpha-Cypermethrin in gherkins and processed products after treatment with BAS 310 41 I under greenhouse conditions in Germany and The Netherlands, 2004 2007/1011647 SGS Institut Fresenius GmbH, Taunusstein, Germany Fed. Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.5.3/2	Mamouni A.	1993 b	Residue analysis of Alphacypermethrin (SAG 30505) in summer barley and its processed fractions after brewing (field study SKG-9249) AL-730-061 RCC Umweltchemie AG, Itingen, Switzerland yes Unpublished	No	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference <i>(cf. Reg. (EU) No 283/2013)</i></b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 6.5.3/3	Harant H.	2007 a	Determination of residues of Alpha-Cypermethrine in spring barley and its processing products after two applications of BAS 310 41 I in Germany 2007/1013068 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
KCA 6.5.3/4	Kang S.-M. Lee M.-G.	2005 a	Fate of some pesticides during brining and cooking of chinese cabbage and spinach BASF DocID 2005/1043600 <i>Food Science and Biotechnology Vol.14, No.1, pp. 77-81 (2005)</i> no Published	No	No	Not applicable	public	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.5.3 <i>(KIA 6.5.2/002)</i>	Grolleau G.	2001	Alphacypermethrin (AC 900049) 150 g a.s./kg WG (RLM 11203): At harvest residue study on alphacypermethrin in oil seed rape and oil, South France, 2000 BASF RDI-No.: AL-750-038 BASF DocID 2001/7001649 yes Unpublished	No	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.5.3 <i>(KILA 6.5.2/003)</i>	Trewhitt J. and Zimmermann U.	2002	Processing study on the residue behavior of alphacypermethrin in oil seed rape after application of BAS 310 08 I under field conditions in France (S), 2001. BASF RDI No.: AL-750-042 BASF DocID 2002/1004088 yes Unpublished	No	No	Not applicable	BASF	submitted for the purpose of renewal: see DRAR (April 2017)
CA 6.6.1	Woods, T.M. et al.	1980	CYPERMETHRIN: ROTATIONAL CROP STUDY Report No.: RJ 0161 B (994-06030) 207ANBJ Not GLP	N	N	Study was part of the Zeta-Cypermethrin DAR/ Addendum/ confirmatory data (not physically available to applicant AIR)	FMC Corporation (data protection expired )	DAR zeta-cypermethrin (2006) DRAR cypermethrin (April 2017) DRAR alpha-cypermethrin (March 2018)
CA 6.6.2	Grolleau G.	2002	Alphacypermethrin (AC 900049) 150 g a.s./kg WG (RLM 11203): Residue Determination in Rotational Crops, Italy, 2000. AL-IT-00-608 BASF DocID No 2002/5004754	No	No	Not applicable	BASF	DAR addendum (January 2003)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Datapoint / reference</b> <i>(cf. Reg. (EU) No 283/2013)</i>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> Company Report No. Source (where different from company) GLP or GEP status Published or not	<b>Vertebrate study</b> Y/N	<b>Data protection claimed</b> Y/N	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 6.6.2	Smalley R.	2002	Study on the Residue Behaviour of Alphacypermethrin in Lettuce, Carrots, Cabbage and Wheat after Application of BAS 310 Under Field Conditions in France (N and S) and the United Kingdom, 2001 Report no 4803 BASF DocID No 2002/1011569	No	No	Not applicable	BASF	DAR addendum (January 2003)

*"supportive information"*: not acceptable as stand-alone guideline-compliant study to address the data requirement, but considered rather as supportive information

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

### 1.5 Fate and behavior in the environment of the active substance

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.1.1.1	Gedik L., Keirs D.	2001	(14C)-Alphacypermethrin (BAS 310 I): Degradation in soil under aerobic conditions Inveresk Research; Tranent East Lothian EH33 2NE; United Kingdom AL-620-013 Yes unpublished	N	N	Not applicable	BASF	Initial monograph September 1999
CA 7.1.1.1	Michel A., Hassink J.	2014a	Metabolism of BAS 310 I in soil under aerobic conditions BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1000641 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.1.2	Dijk A. Van Burri R.	1993	14C Alphacypermethrin: Study of its photodegradation on soil RCC Umweltchemie AG; Itingen; Switzerland AL-620-010 Yes unpublished	N	N	Not applicable	BASF	Initial monograph September 1999
CA 7.1.1.2	Staudenmeier H., Kuhnke G.	2014	Anaerobic soil metabolism of Alpha-Cypermethrin BAS 310 I BASF SE; Limburgerhof; Germany Fed.Rep. 2013/1386602 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.1.3	Hassink J., Michel A.	2014b	Soil photolysis of BAS 310 I BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1000642 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.1.1	Singh M.	2003a	Isolation and identification of an unknown metabolite A of Alphacypermethrin (BAS 310 I) found in the Inveresk study 399307 (degradation in soil under aerobic conditions) BASF Corp. Agricultural Products Center; Research Triangle Park	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			NC; United States of America 2003/5000474 Yes unpublished					
CA 7.1.2.1.1	Sachers S.	2014a	Kinetic evaluation of aerobic soil degradation of BAS 310 I - Alpha-cypermethrin: Determination of trigger and modeling endpoints according to FOCUS BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1159505 No unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.1.1	Michel A., Hassink J.	2014c	Rate of degradation of Alpha-cypermethrin (BAS 310 I) in soil under aerobic conditions BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1159491 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.2.1	Geschke S.	2014a	Freezer storage stability of the diastereomeric forms of BAS 311 I and its metabolites 3-Phenoxybenzoic acid and DCVA (cis and trans isomers) in soil Eurofins Agroscience Services EcoChem GmbH; Niefen-Oeschelbronn; Germany Fed.Rep. 2014/1152598 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.2.1	Jacobson B. et al.	2013a	Terrestrial field dissipation of the insecticide Alpha-Cypermethrin (BAS 310 I) following broadcast applications of BAS 310 65 I using a row crop use pattern Waterborne Environmental Inc.; Leesburg VA; United States of America 2013/7002604 Yes	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			unpublished					
CA 7.1.2.2.1	Hoogeweg G.	2014a	Similarity of four United States Alpha-Cypermethrin terrestrial field dissipation trial sites to european conditions: A crosswalk exercise using ENASGIPS v2.3 Waterborne Environmental Inc.; Leesburg VA; United States of America 2014/7003560 No unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.2.1	Kellner T., Kroeger F.	2014a	Field soil dissipation study of BAS 310 I (Alpha-Cypermethrin) in the formulation BAS 310 55 I (ME) on bare soil at six sites in Europe in 2012-2013 Eurofins Agroscience Services GmbH; Stade; Germany Fed.Rep. 2014/1161559 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.2.2.1	Studenroth S., Pape L.	2014b	Kinetic evaluation of a field dissipation study for BAS 310 I - Alpha-Cypermethrin conducted in 2012 and 2013: Determination of modeling endpoints according to FOCUS BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1159508 Updated version : 2017/1223814 No, not subject to GLP regulations unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.3.1.1	Heinz N.	2014a	Determination of adsorption and desorption behavior of BAS 310 I (alpha-Cypermethrin) in 5 soils (OECD Guideline 106) PTRL Europe; Ulm; Germany Fed.Rep. 2014/1162672 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.3.1.2	Holman J.C.	2002	14C-CL 206128 (metabolite of BAS 310 I, Alphacypermethrin): Adsorption/desorption on soils	N	N	Not applicable	BASF	Addendum 2003 to Initial

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			BASF Corp. Agro Research; Princeton NJ; United States of America AL-620-015 Yes unpublished					monograph September 1999
CA 7.1.3.1.2	Malinsky D.S.	2005a	Adsorption/desorption of BAS 310 I metabolite (CL 912554) on soil BASF Agro Research RTP; Research Triangle Park NC; United States of America 2004/5000486 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.3.1.2	Walter W.	2014a	Determination of adsorption behavior of M310I017 cis (metabolite of BAS 310 I, Alpha-Cypermethrin) in 5 soils PTRL Europe; Ulm; Germany Fed.Rep. 2014/1315294 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.1.4.1.1	Stevens J., Hill I.	1980	Cypermethrin: Mobility of Cypermethrin and its degradation products in soil columns <none>; <none>; <none> CY-620-005 No, studies were conducted prior to the implementation of GLP but are scientifically valid unpublished	N	N	Not applicable	BASF	Initial monograph September 1999
CA 7.2.1	Van dijk A.	1993	Hydrolysis determination of 14C-Alphacypermethrin at different pH values RCC Umweltchemie AG; Itingen; Switzerland AL-322-002 Yes unpublished	N	N	Not applicable	BASF	Initial monograph September 1999
CA 7.2.1	Concha M. et al.	2001	BAS 310 I (Alphacypermethrin): Aqueous photolysis PTRL West Inc.; Hercules CA; United States of America AL-324-003	N	N	Not applicable	BASF	Initial monograph September 1999

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			Yes unpublished					
CA 7.2.1.1	Hassink J.	2005a	Hydrolysis of Alpha-Cypermethrin (TGAI batch COD-000165) BASF AG Agrarzentrum Limburgerhof; Limburgerhof; Germany Fed.Rep. 2005/1016375 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.2.1.1	Hassink J.	2005b	Hydrolysis of Alpha-Cypermethrin (TGAI batch COD-000166) BASF AG Agrarzentrum Limburgerhof; Limburgerhof; Germany Fed.Rep. 2005/1016376 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.2.2.1	Stone C.M., Watkinson R.J.	1983	WL 85871: An assessment of ready biodegradability Shell Research Ltd.; Sittingbourne Kent ME9 8AG; United Kingdom AL-690-001 No, studies were conducted prior to the implementation of GLP but are scientifically valid unpublished	N	N	Not applicable	BASF	Initial monograph September 1999
CA 7.2.2.2	Lewis C.J.	2014a	14C-Alpha-cypermethrin (BAS 310 I): Aerobic mineralisation in surface water Smithers Viscient (ESG) Ltd.; Harrogate North Yorkshire HG3 1PY; United Kingdom 2014/1031017 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.2.2.3	Mamouni A.	1993	Fastac (benzyl-14C): Degradation and metabolism in aquatic systems RCC Umweltchemie AG; Itingen; Switzerland AL-630-011 Yes unpublished	N	N	Not applicable	BASF	Addendum 2003 to Initial monograph September 1999

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.2.2.3	Voelkl S.	1993	14C-AlphaCypermethrin (cyclopropyl-1-14C): Degradation and metabolism in aquatic systems RCC Umweltchemie AG; Itingen; Switzerland AL-630-012 Yes unpublished	N	N	Not applicable	BASF	Addendum 2003 to Initial monograph September 1999
CA 7.2.2.3	Sachers S.	2014b	Kinetic evaluation of degradation of BAS 310 I - Alpha-Cypermethrin in water/sediment systems: Determination of trigger and modeling endpoints according to FOCUS BASF SE; Limburgerhof; Germany Fed.Rep. 2014/1159506 No, not subject to GLP regulations unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.2.2.3	Kibat H., Pape L.	2017	Aerobic aquatic metabolism of BAS 310 I BASF SE; Limburgerhof; Germany Fed.Rep. 2017/1326895 Yes unpublished	N	Y	New data for AIR3 renewal	BASF	No, submitted for the purpose of the renewal
CA 7.2.2.3	Meyer B.N. et al.	2013a	Laboratory degradation rates of 11 pyrethroids under aerobic and anaerobic conditions <none>; <none>; <none> 2013/1416300 No, not subject to GLP regulations Journal of Agricultural and Food Chemistry 2013, 61, 4702-4708	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the renewal
CA 7.2.2.3	Liu W. et al.	2004a	Isomer selectivity in aquatic toxicity and biodegradation of Cypermethrin <none>; <none>; <none> 2004/1040294 No, not subject to GLP regulations Journal of Agricultural and Food Chemistry 2004, 52, 6233-6238	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the renewal
CA 7.2.2.3	Quin S. et al.	2006a	Enantioselective degradation and chiral stability of Pyrethroids in soil and sediment	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			<none>; <none>; <none> 2006/1050993 No, not subject to GLP regulations Journal of Agricultural and Food Chemistry 2006, 54, 5040-5045					renewal
CA 7.1.1.3	Segal-Rosenheimer, M., and Dubowski, Y.	2008	"Photolysis of thin films of cypermethrin using in situ FTIR monitoring: Products, rates and quantum yields", 2008, Journal of Photochemistry and Photobiology A: Chemistry 200 (2008) 262-269	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the renewal
CA 7.1.1.3	Raiwar, M. K., and Nag, S.K.	2006	"Phototransformation of Alphacypermethrin as Thin Film on Glass and Soil Surface", 2006, Journal of Environmental Science and Health, Part B, 41:6 (2006) 973-988	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the renewal
CA 7.1.4.2	Rani, M., Saini, S., and Kumari, B.	2014	Leaching behaviour of chlorpyrifos and cypermethrin in sandy loam soil, 2014, Environ. Monit. Asses. (2014) 186:175-182	N	N	New data for AIR3 renewal	public	No, submitted for the purpose of the renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

#### 1.6 Ecotoxicological studies on the active substance

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
N5, 1.7/01	Diao, J. et al.	2011	Enantiomer-Specific toxicity and bioaccumulation of alpha-cypermethrin to earthworm Eisenia fetida Report No.: na (892-025) Journal of Hazardous Materials, 2011, 192 (3), 1072-1078 Not GLP, published	No	No	N/A	public	Submitted for the purpose of renewal
N5, 1.7/02	Liu, W. et al.	2004	Isomer selectivity in aquatic toxicity and biodegradation of cypermethrin Report No.: na (892-026) Journal of Agricultural and Food Chemistry, 2004, 52 (20), 6233-6238 Not GLP, published	No	No	N/A	public	Submitted for the purpose of renewal
N5, 1.7/03	Liu, W.	2005	Separation and aquatic toxicity of enantiomers of synthetic pyrethroid insecticides Report No.: na (892-029) Chirality, 2005, 17, S127-S133 Not GLP, published	No	No	N/A	public	Submitted for the purpose of renewal
N5, 1.7/04	Pap, L. et al.	1996	The synthetic pyrethroid isomers II. Biological activity Report No.: na (892-027) Journal of Environmental Science and Health Part B-Pesticides Food Contaminants and Agricultural Wastes, 1996, 31 (3), 527-543 Not GLP, published	No	No	N/A	public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
N5, 1.7/05	Xu, C. et al.	2010	Enantioselective separation and zebrafish embryo toxicity of insecticide beta-cypermethrin Report No.: na (892-028) Journal of Environmental Sciences, 2010, 22 (5), 738-743 Not GLP, published	No	No	N/A	public	Submitted for the purpose of renewal
KCA 8.1.1.1/01	[REDACTED]	2000	Avian acute oral toxicity test with Alphacypermethrin Technical in Northern Bobwhites ( <i>Colinus virginianus</i> ) BASF Report No.: L-505-002 [REDACTED] GLP, not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Addendum to the DAR (November 2002)
KCA 8.1.1.1/02	[REDACTED]	2009a	BAS 310 I - Acute toxicity in the Zebra finch ( <i>Taeniopygia guttata</i> ) after single oral administration (LD50) BASF Report No.: 2009/1114317 [REDACTED] GLP, not published	Yes	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.1.1.2/01	[REDACTED]	2001a	Alphacypermethrin (BAS 310 I) – Dietary toxicity (LC50) to the northern bobwhite ( <i>Colinus virginianus</i> ) Company report: AL-534-003  [REDACTED] GLP, not published	Yes	Yes	N/A	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.1.1.3/02	[REDACTED]	2001b	Alphacypermethrin (BAS 310I) Assessment to Determine the Effects on Reproduction in Northern Bobwhite ( <i>Colinus virginianus</i> ). Vol. 1-2-3  [REDACTED] [REDACTED] [REDACTED] GLP, not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.6.1/01	[REDACTED]	1981	WL85871 and cypermethrin - a comparison of their acute toxicity to <i>Salmo gairdneri</i> , <i>Daphnia magna</i> and <i>Selenastrum capricornutum</i> Study No.: 38104; BASF Report No.: AL-511- 001 [REDACTED] Not GLP, not published	Yes	No	N/A	BASF	Original DAR (September 1999)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.1/08	[REDACTED]	2002a	CL 912554 (Metabolite of BAS 310I, Alpha-Cypermethrin) Acute Toxicity Study on the Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) in a Static System Over 96 Hours Company report No.: 2002/1004682 (AL-570-011) [REDACTED] GLP, not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.1/10	[REDACTED]	2002b	CL 206128 (Metabolite of BAS 310I, Alpha-Cypermethrin) Acute Toxicity Study on the Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) in a Static System Over 96 Hours BASF Report No.: 2002/1004683 (AL-570-013)  [REDACTED]  GLP, Not published	Yes	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
KCA 8.2.1/11	[REDACTED]	1977	The acute toxicity to rainbow trout ( <i>Salmo gairdneri</i> ) of some compounds involved in the manufacture of Pyrethroid insecticide WL 43467 BASF Report No : CY-570-001  [REDACTED]  Not GLP, Not published	Yes	No	N/A	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.2.1/02	[REDACTED]	1983	WL85871 and cypermethrin a comparative study of their toxicity to the fathead minnow <i>Pimephales promelas</i> BASF Report No.: SBGR.82.298 (AL-512-002)  [REDACTED]  Not GLP, Not published	Yes	No	N/A	BASF	Original DAR (September 1999)
KCA 8.2.2.1/03	[REDACTED]	2009b	BAS 310 I - Early life-stage test on the fathead minnow ( <i>Pimephales promelas</i> ) with pulse dose exposure BASF Report No :2009/1031203  [REDACTED]  GLP, not published	Yes	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.2.3/02	[REDACTED]	1981	The accumulation, distribution and elimination of RIPCORD by Rainbow trout using a continuous-flow procedure BASF Report No.: SBGR.81.026 (AL-519-003)  [REDACTED]  Not GLP, Not published	Yes	No	N/A	BASF	Original DAR (September 1999)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.2.3/03	[REDACTED]	1997	Bioconcentration study of Alpha-Cypermethrin with carp BASF Report No.: AL-519-004 [REDACTED] GLP, not published	Yes	No	N/A	BASF	Submitted for the purpose of renewal
KCA 8.2.4.1/02	Janson G.-M. & Weltje L.	2015	The influence of humic acid and green algae on the toxicity of BAS 310 55 I to Daphnia magna STRAUS BASF Report No.: 2013/1404157 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.4.1/04	Jatzek H.J.	2001a	Reg. No. 4080830: Determination of the acute effect on the swimming ability of the water flea Daphnia magna STRAUS BASF Report No.: 2001/1017462 (AL-520-001) BASF Aktiengesellschaft, Ludwigshafen/Rhein, Germany Fed. Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.4.1/05	Jatzek H.J.	2001b	CL206128 (Metabolite of BAS 310 I, alpha-cypermethrin): Determination of the acute effect on the swimming ability of the water flea Daphnia magna STRAUS BASF Report No.: 2001/1014673 (AL-570-008) BASF Aktiengesellschaft, Ludwigshafen/Rhein, Germany Fed. Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.4.1/06	Jatzek H.J.	2002a	CL206969 - Determination of the acute effect on the swimming ability of the water flea <i>Daphnia magna</i> STRAUS BASF Report No.: 2002/1004857 (AL-570-012) BASF Aktiengesellschaft, Ludwigshafen/ Rhein, Germany Fed. Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335 /2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
KCA 8.2.4.2/01	Janson G.- M. & Weltje L.	2009	Acute toxicity of BAS 310 I (Reg.No. 4078193) to larvae of the phantom midge <i>Chaoborus crystallinus</i> in a 48 hour static test BASF Report No.: 2009/1085205 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.5.1/01	Garforth B.M.	1982a	WL85871 and cypermethrin chronic toxicity to <i>Daphnia magna</i> BASF Report No.: AL-523-001 (Study No.: SBGR.82.119) Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, not published	No	No	N/A	BASF	In DAR (September 1999)
KCA 8.2.5.1/02	Bergtold M.	2007	Chronic toxicity of BAS 310 I to <i>Daphnia magna</i> STRAUS in a 21 day semi-static test - A time to effect study BASF Report No.: 2007/1016502 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.5.3/01	Janson G.-M., Dorner S. & Weltje L.	2011	Acute toxicity of Alpha-Cypermethrin (BAS 310 I) and of Cypermethrin (BAS 311 I) to the non-biting midge <i>Chironomus riparius</i> in a 48 hour static test BASF Report No.: 2009/1102214 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.5.3/02	Heintze A.	1997	Alpha-cypermethrin (AC 900049): Effects on the development of sediment-dwelling larvae of <i>Chironomus riparius</i> in a water-sediment system BASF Report No.: AL-523-002 GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH, Eutinger Str. 24, D-75223 Niefern-Öschelbronn, Germany GLP, not published	No	No	N/A	BASF	In DAR (September 1999)
KCA 8.2.5.3/03	Backfisch K., Weltje L.	2011	Chronic toxicity of Reg.No. 4078193 (BAS 310 I; Alpha-Cypermethrin) to the non-biting midge <i>Chironomus riparius</i> - A spiked sediment study BASF Report No.: 2011/1124187 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.5.3/04	Backfisch K., Weltje L.	2012	Amendment No. 1 - Chronic toxicity of Reg.No. 4078193 (BAS 310 I; Alpha-Cypermethrin) to the non-biting midge <i>Chironomus riparius</i> - A spiked sediment study BASF Report No.: 2012/1156939 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.5.4/01	Gilberg D. et al.	2013	Alpha-Cypermethrin (BAS 310 I): A study on the chronic toxicity to the sediment dweller <i>Lumbriculus variegatus</i> BASF Report No.: 2012/1205915 ECT Oekotoxikologie GmbH, Floersheim, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.5.4/02	Hoess S.	2013	Chronic toxicity of Alpha-Cypermethrin to <i>Caenorhabditis elegans</i> exposed via spiked sediment according to ISO guideline 10872 (2010) BASF Report No.: 2013/1250848 Ecossa - Ecological Sediment & Soil Assessment, Starnberg, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.6.1/02	Jatzek H.J.	2002b	BAS 310 I- Determination of Inhibitory Effect on the Cell Multiplication of Unicellular Green Algae BASF Report No.: 2002/1004851 (AL-520- 002) BASF Aktiengesellschaft, Ludwigshafen, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335 /2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status <u>Published or not</u>	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.6.1/04	Werner D.I.	2002a	CL 912554 (Metabolite of BAS 310I, alpha-Cypermethrin): Determination of Inhibitory Effect on the Cell Multiplication of Unicellular Green Algae BASF Report No.: 2002/1004139 (AL-570-009) BASF Aktiengesellschaft, Ludwigshafen, Germany FLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.6.1/05	Werner D.I.	2002b	CL 206128 (Metabolite of BAS 310I, alpha-Cypermethrin): Determination of Inhibitory Effect on the Cell Multiplication of Unicellular Green Algae BASF Report No.: 2002/1004140 (AL-570-010) BASF Aktiengesellschaft, Ludwigshafen, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
KCA 8.2.6.2/01	Hoffmann F.	2009a	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the fresh water diatom <i>Navicula pelliculosa</i> - A limit test BASF Report No.: 2009/1109081 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.6.2/02	Hoffmann F.	2009b	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the blue-green alga Anabaena flos-aquae - A limit test BASF Report No.: 2009/1109080 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.6.2/03	Hoffmann F.	2009c	Effect of BAS 310 I (Reg.No. 4078193) on the growth of the marine diatom Skeletonema costatum - A limit test BASF Report No.: 2009/1109079 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.7/01	Hoffmann F.	2009d	Effect of BAS 310 I (Reg.No. 4078193) on the growth of Lemma gibba - A limit test BASF Report No.: 2009/1108874 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.7/02	Ando D. <i>et al.</i>	2012	Uptake, translocation, and metabolism of 3-phenoxybenzioic acid in the submerged rooted macrophyte water milfoil ( <i>Myriophyllum elatinoides</i> ) BASF Report No.: 2012/1367684 Not GLP, published ( <i>Journal of Pesticides Science</i> 37(4):342-346, 2012)	No	No	N/A	public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/05	Huber W. <i>et al.</i>	2000a	Evaluation of Effects of a 100 g/L SC Formulation (CF 06677) of AC 900049 (Alphacypermethrin) on Macroinvertebrates, Zooplankton, and Algae in Enclosures in Ponds BASF Report No.: AL-560-031 (Study No.: ECO-97-144) Institute of Aquatic Ecotoxicology (IAE), Kungelpoint 26, D-84172 Buch a. Erlbach, Germany Not GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	In Addendum to the DAR (November 2002)
KCA 8.2.8/06	Huber W. <i>et al.</i>	2000b	Evaluation of Possible Effects of a 100 g/L SC Formulation (CF 06677) of AC 900049 (Alphacypermethrin) on Macroinvertebrates, Zooplankton, and Algae in Pond-Enclosures and Determination of the Ecologically Acceptable Concentration (EAC) BASF Report No.: AL-560-23 (Study No.: ETX-99-101) Institute of Aquatic Ecotoxicology (IAE), Kungelpoint 26, D-84172 Buch a. Erlbach, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	In Addendum to the DAR (November 2002)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/07	Huber W. <i>et al.</i>	2000c	Amendment - Evaluation of Possible Effects of a 100 g/L SC Formulation (CF 06677) of AC 900049 (Alphacypermethrin) on Macroinvertebrates, Zooplankton, and Algae in Pond-Enclosures and Determination of the Ecologically Acceptable Concentration (EAC) BASF Report No.: AL-123-057 (Study No.: ETX-99-101.01) Institute of Aquatic Ecotoxicology (IAE), Kungelpoint 26, D-84172 Buch a. Erlbach, Germany GLP, not published	No	No	N/A	BASF	In Addendum to the DAR (November 2002)
KCA 8.2.8/08	Funk M. <i>et al.</i>	2000	Acute toxicity of alphacypermethrin (AC900049) in a 100 g/L OESC formulation (CF06677) to aquatic macroinvertebrates BASF Report No.: AL-560-054 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany GLP, not published	No	No	N/A	BASF	In Addendum to the DAR (November 2002)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 8.2.8/09	Hahn T.	2002	Effects of alphacypermethrin (BAS 310 I) applied as FASTAC OESC (BAS 310 03 I) on aquatic macroinvertebrates (Ephemeroptera and Trichoptera) in extended "standard" laboratory tests BASF Report No.: 2003/1012036 Zoologisches Institut der TU Braunschweig, AG Limnologie/Ökotoxikologie, D-38092 Braunschweig, Germany Not GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal
KCA 8.2.8/10	Huber W. & Grünwald H.	2002	Toxicity of alphacypermethrin (BAS 310 I, AC900049) in a 100 g/L OESC formulation (FASTAC OESC insecticide, CF06677) to aquatic macroinvertebrates ( <i>Cloeon</i> , <i>Gammarus</i> ) in laboratory microcosms BASF Report No.: 2002/1013889 Technical University of Munich, Department of Ecology, Ecotoxicology division, D-85350 Freising, Germany GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/11	Ratte H.T. & Strauss T.	2002	The response and recovery of a mesocosm population of <i>Chaoborus crystallinus</i> (Diptera) at multiple applications of 0.015 µg a.i./L FASTAC OESC (BAS 310 03 I) (active ingredient; alphacypermethrin, BAS 310 I) – a modeling approach BASF Report No.: 2003/1012038 Aachen University of Technology, Dept. of Biology V (Ecology, Ecotoxicology, Ecochemistry), Germany Not GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal
KCA 8.2.8/12	Mitchell G.C.	2003	Alphacypermethrin: An overview of effects of FASTAC on aquatic macroinvertebrates, with particular reference to the midge <i>Chaoborus crystallinus</i> (Chaoboridae: Diptera) BASF Report No.: 2003/1024853 Ecotoxicology Services, P.O. Box #597, Yardley, PA 19067-8597, USA Not GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal

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**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/13	Huber W. <i>et al.</i>	2001	Evaluation of the effects of multiple applications of a 100 g/L SC formulation (FASTAC OESC, CF 06677) of alphacypermethrin (AC 900049) on macroinvertebrates, zooplankton and algae in pond-enclosures  BASF Report No.: AL-560-56 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany Not GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.8/14	Grünwald H.M.	2003	Effects of a pesticide mixture on plankton in freshwater mesocosms – from single substance studies to combination impacts  BASF Report No.: 2003/1034799 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany Not GLP, published (PhD dissertation – Technical University of Munich-Weihenstephan)	No	No	N/A	Public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/15	Dawo U.	2005	The ecotoxicological assessment of multiple pesticide inputs into aquatic ecosystems: the comparison of a single and multiple pyrethroid exposure BASF Report No.: 2005/1044380 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany Not GLP, published (PhD dissertation – Technical University of Munich-Weihenstephan)	No	No	N/A	Public	Submitted for the purpose of renewal
KCA 8.2.8/16	Sevim S.	2012	Analysis of the recovery potential of emerging insects using the example of the Phantom midge <i>Chaoborus crystallinus</i> in mesocosm studies considering the population structure (metapopulation) and the migration mechanisms BASF Report No.: 2012/1369722 Aachen University, Fakultät für Mathematik, Informatik und Naturwissenschaften, Germany Not GLP, published (PhD dissertation – Aachen University)	No	No	N/A	Public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/17	Jordan L.	2012	Ecotoxicological assessment of a double application of alpha-cypermethrin and effects on the macroinvertebrate community BASF Report No.: 2012/1369742 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany Not GLP, published (Bachelor thesis – Technical University of Munich-Weihenstephan)	No	No	N/A	Public	Submitted for the purpose of renewal
KCA 8.2.8/18	Sippenhauer T.	2012	Ecotoxicological assessment of a double application of alpha-cypermethrin and effects on the zooplankton community BASF Report No.: 2012/1369743 Technical University of Munich-Weihenstephan, Department of Systematics and Ecophysiology, D-85350 Freising, Germany Not GLP, published (Bachelor thesis – Technical University of Munich-Weihenstephan)	No	No	N/A	Public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/19	Stegger P., Janz P.	2015	Outdoor aquatic mesocosm study with Alpha-Cypermethrin applied as solo-formulation BAS 310 55 I BASF Report No.: 2014/1102015 Institut fuer Gewaesserschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.8/19a	Stegger P.	2018a	Amendment 1 to Final Report: Outdoor aquatic mesocosm study with Alpha-cypermethrin applied as solo-formulation BAS 310 55 I BASF Report No.: 2018/1025581 Institut fuer Gewaesserschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.2.8/20	Class T.	2014	Outdoor aquatic mesocosm study with ME solo-formulation of Alpha-Cypermethrin (BAS 310 55 I, nominal 50 g/L) - Preparation and verification of dose solutions, analysis of water and sediment samples BASF Report No.: 2014/1246534 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/21	Janz P.	2015	A critical review of available mesocosm studies with Alpha-Cypermethrin BASF Report No.: 2014/1102014 Institut fuer Gewaesserschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal
KCA 8.2.8/22	Strauss T.	2015	An individual based population model for the phantom midge Chaoborus crystallinus to simulate effects and recovery under Alpha-Cypermethrin (BAS 310 I) exposure BASF Report No.: 2014/1162681 gaiac - Research Institute for Ecosystem Analysis and Assessment, Aachen, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal
KCA 8.2.8/23	Janz P.	2014	Phantom midge (Chaoborus spp.) population development in mesocosm studies BASF Report No.: 2014/1102016 Institut fuer Gewaesserschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal
KCA 8.2.8/24	Helliwell S., Stevens M.M.	2000	Efficacy and environmental fate of Alpha-Cypermethrin applied to rice fields for the control of chironomid midge larvae (Diptera: Chironomidae) BASF Report No.: 2000/1024088 Not GLP, published ( <i>Field Crops Research</i> 67:263-272, 2000)	No	No	Not applicable	public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/25	[REDACTED]	2003	Differences in susceptibility of various life stages of amphibians to pesticide exposure BASF BASF Report No.: 2003/1034399 Not GLP, published ( <i>Aquatic Toxicology</i> 65:329-336, 2003)	Yes	No	Not applicable	public	Submitted for the purpose of renewal
KCA 8.2.8/26	[REDACTED]	2013	Lethal and sublethal effects of three insecticides on two developmental stages of Xenopus laevis and comparison with other amphibians BASF Report No.: 2013/1417940 Not GLP, published ( <i>Environmental Toxicology and Chemistry</i> 32(9):2056-2064, 2013)	Yes	No	Not applicable	public	Submitted for the purpose of renewal
KCA 8.2.8/27	Stegger P.	2018b	Calculation of Minimum Detectable Differences (MDDs) for the study "Evaluation of Possible Effects of a 100 g/L SC Formulation (CF06677) of AC 900049 (alpha-cypermethrin) on Macroinvertebrates, Zooplankton and Algae in Pond-Enclosures and Determination of the Ecologically Acceptable Concentration (EAC)" W. Huber, F.-J. Zieris, H. Meyer-Tuve, A. Nunn, E. Sandmann, G.C. Mitchell and W. Horton, 2000. BASF DocID 2000/7000977 (AL-560-023) BASF Report No.: 2017/1223431 Institut für Gewässerschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. Not GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.2.8/28	Stegger P.	2018c	Calculation of Minimum Detectable Differences (MDDs) for the study „Outdoor aquatic mesocosm study with alpha-cypermethrin applied as solo-formulation BAS 310 55 I“ BASF Report No.: 2017/1221964 Institut für Gewässerschutz MESOCOSM GmbH, Homberg, Germany Fed.Rep. Not GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.3.1.1/01	Knight R.J.	1982	The toxicity of the pyrethroid WL85871 against the honey bee <i>Apis mellifera</i> BASF Report No.: SBGR.82.023 (AL-541-002) Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, Not published	No	No	Not applicable	BASF	Original DAR (September 1999)
KCA 8.3.1.1/02	Barth M.	2006	Acute toxicity of BAS 310 I to the honeybee <i>Apis mellifera L.</i> under laboratory conditions BASF Report No.: 2005/1026137 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.3.1.1/03	Amsel K.	2014a	Acute toxicity of BAS 310 I to the bumblebee Bombus terrestris L. under laboratory conditions BASF Report No.: 2014/1111111 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.3.1.1/04	Amsel K.	2014b	Amendment No. 1 to the final report - Acute toxicity of BAS 310 I to the bumblebee Bombus terrestris L. under laboratory conditions BASF Report No.: 2014/1315402 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.3.1.2/01	Sekine T.	2014	Chronic oral toxicity test of BAS 310 I on the honey bee ( <i>Apis mellifera</i> L.) in the laboratory BASF Report No. : 2013/1132489 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.3.1.3/01	Kleebaum K.	2014	Chronic toxicity of BAS 310 I honeybee larvae <i>Apis mellifera</i> L. under laboratory conditions (in vitro) BASF Report No.: 2014/1162697 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BP	Submitted for the purpose of renewal
KCA 8.4.1/01	Inglesfield C. & Sherwood C.M.	1983	Toxicity of cypermethrin and WL85871 to the earthworm <i>Eisenia foetida</i> L. (Oligochaeta: Lumbriculidae) in laboratory tests BASF Report No.: SBGR.83.071 (AL-531- 002) Shell Toxicology Laboratory (Tunstall), Sittingbourne Research Centre, Sittingbourne, Kent ME9 8AG, United Kingdom Not GLP, not published	No	No	N/A	BASF	Original DAR (September 1999)
KCA 8.4.1/02	Friedrich S.	2014 b	Sublethal toxicity of BAS 310 I (Alpha- Cypermethrin) to the earthworm <i>Eisenia fetida</i> in artificial soil BASF Report No.: 2014/1135439 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCA 8.4.1/03	Hartnik T., Sverdrup L.E. & Jensen J.	2008	Toxicity of the pesticide Alpha-Cypermethrin to four soil nontarget invertebrates and implications for risk assessment BASF Report No.: 2007/1070505 Not GLP, published ( <i>Environmental Toxicology and Chemistry</i> , 27(6):1408-1415, 2008)	No	No	N/A	public	Submitted for the purpose of renewal
KCA 8.4.1/04	Sechi V., D'Annibale A., Maraldo K., Hohansen A., Bossi R., Jensen J. & Krogh P.H.	2013	Species composition of a soil invertebrate multi-species test system determines the level of ecotoxicity BASF Report No.: 2013/1417920 Not GLP, published ( <i>Environmental Pollution</i> , 184, 586-596, 2013)	No	No	N/A	public	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.4.1/05	Staab F.	2001a	Effect of Metabolite CL 206128 (Metabolite of alpha-Cypermethrin) on the Mortality of the Earthworm Eisenia fetida BASF Report No.: 2001/1014597 (AL-570-002) BASF Aktiengesellschaft, Limburgerhof, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.4.1/06	Staab F.	2001b	Effect of Metabolite CL 912554 (Metabolite of alpha-Cypermethrin) on the Mortality of the Earthworm Eisenia fetida BASF Report No.: 2001/1014603 (AL-570-003) BASF Aktiengesellschaft, Limburgerhof, Germany GLP, not published	No	Yes	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
KCA 8.4.1/07	Witte B.	2014a	Effects of Reg.No. 130213 (metabolite of BAS 310 I, Alpha-cypermethrin, CL 206128) on reproduction and growth of earthworms Eisenia fetida in artificial soil BASF Report No. : 2014/1135451 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.4.1/08	Witte B.	2014b	Effects of Reg.No. 4080830 (metabolite of BAS 310 I, Alpha-cypermethrin; CL 912554) on reproduction and growth of earthworms Eisenia fetida in artificial soil BASF Report No. : 2014/1135452 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.4.2/01	Friedrich S.	2014a	Effects of Reg.No. 130213 (metabolite of BAS 310 I, alpha-Cypermethrin, CL 206128) on the reproduction of the collembolan Folsomia candida BASF Report No.: 2014/1135435 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.4.2/02	Friedrich S.	2015	Effects of Reg. No. 4080830 (metabolite of BAS 310 I, Alpha-Cypermethrin, CL 912554) on the reproduction of the collembolan Folsomia candida BASF Report No.: 2014/1135436 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.4.2/03	Schulz L.	2014a	Effects of Reg.No. 130213 (metabolite of BAS 310 I, alpha-Cypermethrin, CL 206128) on the reproduction of the predatory mite Hypoaspis aculeifer BASF Report No.: 2014/1135437 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.4.2/04	Schulz L.	2014b	Effects of Reg.No. 4080830 (metabolite of BAS 310 I, alpha-Cypermethrin, CL 912554) on the reproduction of the predatory mite Hypoaspis aculeifer BASF Report No.: 2014/1135438 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.5/01	Koelzer U.	2006a	Effects of BAS 310 I (Reg.No. 4078193) on the activity of the soil microflora - Nitrogen transformation test (ECx) BASF Report No.: 2006/1008040 GAB Biotechnologie GmbH & GAB Analytik GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.5/02	Koelzer U.	2006 b	Effects of BAS 310 I (Reg.No. 4078193) on the activity of the soil microflora - Carbon transformation test (ECx) BASF Report No.: 2006/1008041 GAB Biotechnologie GmbH & GAB Analytik GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal
KCA 8.5/04	Krieg W.	2001a	Effect of CL 206128 (Metabolite of Alpha-cypermethrin) on Soil Micro-organisms: Carbon Transformation Test BASF Report No.: 2001/1014604 (AL-570-005) BASF Aktiengesellschaft, Limburgerhof, Germany Fed.Rep. GLP, not published	N	Y	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.5/05	Krieg W.	2001b	Effect of CL 912554 (Metabolite of Alpha-cypermethrin) on Soil Micro-organisms: Carbon Transformation Test BASF Report No.: 2001/1014605 (AL-570-004) BASF Aktiengesellschaft, Limburgerhof, Germany Fed.Rep. GLP, not published	N	Y	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.5/06	Krieg W.	2001c	Effect of CL 206128 (Metabolite of Alpha-cypermethrin ) on Soil Micro-organisms: Nitrogen Transformation Test BASF Report No.: 2001/1014669 (AL-570-006) BASF Aktiengesellschaft, Limburgerhof, Germany Study Fed.Rep. GLP, not published	N	Y	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335/2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 8.5/07	Krieg W.	2001d	Effect of CL 912554 (Metabolite of Alpha-cypermethrin) on Soil Micro-organisms: Nitrogen Transformation Test BASF Report No.: 2001/1014670 (AL-570-007) BASF Aktiengesellschaft, Limburgerhof, Germany Fed. Rep. GLP, not published	N	Y	Study required to fulfil new data requirements according to 1107/2009	BASF	None. Only referenced in Review Report (SANCO/4335 /2000) as part of the original data package of BASF, but not included in the original DAR or the Addendum (November 2002). Therefore, no previous evaluation report of this study is available
KCA 8.8/02	Hammer S.	2017	BAS 310 I (Alphacypermethrin): Determination of the inhibition of oxygen consumption in the activated sludge respiration inhibition test BASF Report No.: 2017/1036647 BASF SE, Experimental Toxicology and Ecology, Ludwigshafen, Germany Fed. Rep. GLP, not published	N	Y	New data for AIR3 renewal; Study required to fulfil new data requirements according to 1107/2009	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

## **2. Plant protection product BAS 310 55 I**

### **2.1 Identity, physical and chemical properties and further information on BAS 310 55 I**

<b>Data point (reference in Vol. 3 B2)</b>	<b>Author(s)</b>	<b>Yea r</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 2.2/003 KCP 2.3/005  B.2.2/02 B.2.3/03	Smeykal H.	201 5	Determination of physico-chemical properties according to UN Transport Regulations and Directive 94/37/EC (Regulation (EC) No. 440/2008) Consilab Gesellschaft für Anlagensicherheit mbH, Germany Study No. CSL-15-0349.01 (BASF ID 780777_1) GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No: submitted for the purpose of renewal  Note: study submitted in the course of the assessment

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point (reference in Vol. 3 B2)</b>	<b>Author(s)</b>	<b>Yea r</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 2.1/002 KCP 2.3/004 KCP 2.4/002 KCP 2.5/003 KCP 2.6/002 KCP 2.7/004 KCP 2.8.2/002 KCP 2.8.6/002  B.2.1/01 B.2.3/01 B.2.4/02 B.2.5/01 B.2.5/02 B.2.6/01 B.2.7/01 B.2.7/02 B.2.8.2/01 B.2.8.6/01	Keller M.	201 2 a	Physical and chemical properties of BAS 310 55 I - Accelerated storage stability up to 14 days at 54°C 2012/1086540 BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal  Note: considered as supplementary information for points KCP 2.3/004 (B.2.3/01), KCP 2.8.2/002 (B.2.8.2/01) and KCP 2.8.6/002 (B.2.8.6/01)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point (reference in Vol. 3 B2)</b>	<b>Author(s)</b>	<b>Yea r</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 2.2/002 KCP 2.3/003  B.2.2/01 B.2.3/01	Gundrum H.	201 2	Evaluation of physical and chemical properties according to Directive 94/37/EC (Regulation (EC) No 440/2008) + amendment 2012/1081270 BASF SE, Ludwigshafen/Rhein, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No: submitted for the purpose of renewal
KCP 2.5/002 KCP 2.7/002 KCP 2.8.2/001 KCP 2.8.6/002  B.2.5/02 B.2.7/01 B.2.7/02 B.2.8.2/01 B.2.8.6/01	Keller M.	201 4 a	Physical properties of BAS 310 55 I 2014/1158208 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No: submitted for the purpose of renewal  Considered as supplementary information for point KCP 2.5/002 (B.2.5/02)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point (reference in Vol. 3 B2)</b>	<b>Author(s)</b>	<b>Yea r</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 2.7/003  B.2.7/03	Keller M.	201 5	Physical and chemical stability of formula BAS 310 55 I when stored for up to 3 years in PA/PE-coextruded packs - 104 weeks report 2015/1100221 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	No: submitted for the purpose of renewal  Final report submitted in the course of the assessment

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data point (reference in Vol. 3 B2)</b>	<b>Author(s)</b>	<b>Yea r</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 2.9/1  B.2.9/01	Auweter H.	200 9 a	Physical and chemical compatibility in aqueous tank mixtures of BAS 310 55 I 2009/1072292 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	Not applicable	BASF	No: submitted for the purpose of renewal

<b>Data Point (reference in Vol. 3 B.4)</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrat e study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CP 4.2  (B.4.2.2)	Stadler R.	2008 a	BAS 310 51 I: Effectiveness of procedures for cleaning application equipment and protective clothing 2008/1101896 BASF AG Agrarzentrum Limburgerhof, Limburgerhof, Germany Fed.Rep. Not GLP Unpublished	N	N	Not applicable	BASF	No, submitted for the purpose of renewal
CP 4.2 CP 4.3 CP 4.5  (B.4.2.3 B.4.3 B.4.5)	unknown	2015	Safety Data Sheet Not GLP Unpublished	N	N		BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

CP 4.4/001  (B.4.4.2)	Schreiner B.	2008 a	EU-Performance-Test for BAS 310 51 I (Spec.No. 775 5108) 2008/1000101 BASF AG, Ludwigshafen/Rhein, Germany Fed.Rep. Not GLP Unpublished	N	N	Not applicable	BASF	No, submitted for the purpose of renewal
CP 4.4/002  (B.4.4.2)	Kroehl T.	2008 a	Corrosiveness of BAS 310 51 I 2008/1083474 BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP Unpublished	N	N	Not applicable	BASF	No, submitted for the purpose of renewal
CP 4.4/003  (B.4.4.2)	Keller M.	2011 a	BAS 310 I (Alpha-Cypermethrin) 50 g/L ME - chemical and physical stability of formula BAS 310 51 I when stored for up to 3 years in PE/PA-coextruded packs 2011/1143450 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	N	Y	New data for AIR3 renewal.*	BASF	No, submitted for the purpose of renewal
CP 4.4/004  (B.4.4.2)	Keller M.	2012	BAS 310 55 I – Accelerated storage stability up to 14 days at 54°C 2012/1086540 BASF SE, Limburgerhof, Germany Fed.Rep. yes Unpublished	N	Y	New data for AIR3 renewal.*	BASF	No, submitted for the purpose of renewal
CP 4.4/005  (B.4.4.2)	Keller Markus	2015	BAS 310 I (Alpha-Cypermethrin) 50 g/L ME – chemical and physical stability of formula BAS 310 55 I when stored for up to 3 years in PE/PA-coextruded packs BASF SE Germany Study code 408589_1 BASF DocID: 2015/1100221 Unpublished	N	Y	New data for AIR3 renewal.*	BASF	No, submitted for the purpose of renewal

\* Pursuant to art. 59 of Regulation (EC) No. 1107/2009

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

## 2.2 Analytical methods for the formulation BAS 310 55 I

Data point (reference in Vol. 3 B.5)	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not Justification	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed*	Owner	Previous evaluation
CP 5.1.1/04  (B.5.1.1)	Distler J.	2012 a	Determination of Alpha-Cypermethrin (Reg.No. 4 078 193) in BAS 310 55 I 2012/1020926 BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP Unpublished	No	No	Not applicable	BASF	No, submitted for the purpose of the renewal
CP 5.1.1/05  (B.5.1.1)	Distler J.	2012 b	Validation of analytical method AFL0850/01: Determination of Alpha-Cypermethrin (Reg.No. 4 078 193) in BAS 310 55 I 2012/1021038 BASF SE, Limburgerhof, Germany Fed.Rep. GLP Unpublished	No	Yes	New data for AIR3 renewal*	BASF	No, submitted for the purpose of the renewal

\* Pursuant to art. 59 of Reg. (EC) No. 1107/2009.

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

### 2.3 Toxicological studies on the formulation BAS 310 55 I

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 7.1.1/1	[REDACTED]	2009 a	BAS 310 55 I - Acute oral toxicity study in rats 2008/1085364 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.1.2/1	[REDACTED]	2008 a	BAS 310 51 I - Acute dermal toxicity in rats 2007/1053312 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.1.2/2	[REDACTED]	2009 a	Amendment No. 1: BAS 310 51 I - Acute dermal toxicity in rats 2009/1048449 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.1.3/1	[REDACTED]	2008 a	BAS 310 51 I - Acute inhalation toxicity study in Wistar rats - 4-hour liquid aerosol exposure 2008/1028542 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 7.1.4/1	[REDACTED]	2008 a	BAS 310 51 I - Acute dermal irritation / corrosion in rabbits 2008/1021439 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.1.5/1	[REDACTED]	2008 a	BAS 310 51 I - Acute eye irritation in rabbits 2008/1021440 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.1.6/1	[REDACTED]	2008 a	BAS 310 51 I - Murine local lymph node assay (LLNA) 2008/1021441 [REDACTED] yes Unpublished	Yes	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal
KCP 7.2.3.2/1	Blaschke U., Weber S.	2014 c	Determination of BAS 310 I collected from particle (dust) and vapor (air) sampling devices in a commercial tobacco store in Germany equipped with Carifend TM tobacco nets to control tobacco moth and tobacco beetle infestations in 2012 2014/1316895 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	Yes	New data for AIR3 renewal	BASF	No, submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Datapoint	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 7.3/1	Hassler S.	2013 a	BAS 310 I: Radiolabeled BAS 310 I in BAS 310 55 I - In vitro study to investigate the dermal penetration through human skin 2012/1225962 Harlan Laboratories Ltd., Itingen, Switzerland yes Unpublished	No	Yes	New data for AIR3 renewal	BASF	

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

**2.4 Residues in or on treated products, food or feed: formulation BAS 310 55 I**

See

1.4 Residues in or on treated products, food or feed (active substance)

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

## 2.5 Fate and behavior in the environment of the formulation BAS 310 55 I

Data Point <i>(cf. Reg. (EU) No 284/2013)</i>	Autho r(s)	Year	Title <b>Company Report No.</b> <b>Source (where different from company)</b> <b>GLP or GEP status</b> <b>Published or not</b>	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 9.1.3/1	Pape L., Voss A.	2015 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1251208 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal
KCP 9.1.3/2	Pape L., He W.	2017 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1224205 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal
KCP 9.2.4.1/1	Pape L., Voss A.	2015 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1251208 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal
KCP 9.2.4.1/2	Pape L., He W.	2017 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1224205 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b> <i>(cf. Reg. (EU) No 284/2013)</i>	<b>Autho r(s)</b>	<b>Year</b>	<b>Title</b> <b>Company Report No.</b> <b>Source (where different from company)</b> <b>GLP or GEP status</b> <b>Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 9.2.5/1	Pape L., Voss A.	2015 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1251208 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal
KCP 9.2.5/2	Pape L., He W.	2017 a	Predicted environmental concentrations of BAS 310 I - Alpha-Cypermethrin and its metabolites in soil, groundwater, surface water and sediment according to FOCUS following application of BAS 310 55 I to various crops 2015/1224205 BASF SE, Limburgerhof, Germany Fed.Rep. no Unpublished	No	No	/	BASF	New data for AIR3 renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

#### 2.6 Ecotoxicological studies on the formulation BAS 310 55 I

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.1.1.2/01	[REDACTED]	2008d	BAS 310 51 I - Acute toxicity in the bobwhite quail ( <i>Colinus virginianus</i> ) after single oral administration (LD50) BASF Report No.: 2008/1051526  [REDACTED] GLP, not published	Yes	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.2.1/01	[REDACTED]	2008b	BAS 310 51 I - Acute toxicity study with the rainbow trout ( <i>Oncorhynchus mykiss</i> ) in a static system over 96 hours BASF Report No.: 2008/1009839  [REDACTED] GLP, not published	Yes	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.2.1/02	Janson G.-M.	2008	Acute toxicity of BAS 310 51 I to <i>Daphnia magna</i> STRAUS in a 48 hour static test BASF Report No.: 2008/1010445 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.2.1/03	Hoffmann F.	2009e	Effect of BAS 310 51 I on the growth of the green alga <i>Pseudokirchneriella subcapitata</i> BASF Report No.: 2009/1011443 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.2.3/01	Häring T.	2017	Graphical illustration of exposure pattern of BAS 310 I – alpha-cypermethrin after application to leafy vegetables in greenhouse BASF Report No.: 2017/1224188 BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.1/01	Zenker K.	2009	Acute toxicity of BAS 310 51 I and BAS 310 55 I to the honeybee <i>Apis mellifera</i> L. under laboratory conditions BASF Report No.: 2009/1075821 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.1/02	Jeyalakshmi T.	2008	Effects of BAS 310 51 I (Acute contact and oral) on honeybees ( <i>Apis mellifera</i> L.) in the laboratory BASF Report No.: 2007/1044611 IIBAT - International Institute of Biotechnology and Toxicology, Padappai, India GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.1/03	Sattler F., Eden A.	2014	Acute oral and contact toxicity of BAS 310 55 I to the bumblebee ( <i>Bombus terrestris</i> L.) in the laboratory BASF Report No.: 2014/1105775 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.1.5/01	Barth M.	2010	Effects of BAS 310 55 I on the honeybee <i>Apis mellifera L.</i> under semi-field conditions (tunnel test) with additional assessments on colony and brood development BASF Report No.: 2009/1050234 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/02	Hecht-Rost S.	2010	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in a semi-field study BASF Report No.: 2009/1050235 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/03	Schmitzer S.	2009a	Study on the effect of BAS 310 51 I on honey bee brood ( <i>Apis mellifera L.</i> ) under semi-field conditions - Tunnel test BASF Report No. : 2008/1021479 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.1.5/04	Schmitzer S.	2008a	Toxicity testing of BAS 310 51 I on honey bees ( <i>Apis mellifera L.</i> ) in the cage under semi-field conditions BASF Report No. : 2007/1043313 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Roseldorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/05	Noe J.	2009	Assessment of effects of BAS 310 51 I on the honeybee ( <i>Apis mellifera L.</i> ) in a semi-field study BASF Report No.: 2008/1085368 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/06	Schmitzer S.	2009b	Toxicity testing of BAS 310 51 I on honey bees ( <i>Apis mellifera L.</i> ) in the cage under semi-field conditions BASF Report No.: 2009/1000084 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Roseldorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 10.3.1.5/07	Rentschler S.	2010a	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in a semi-field study on wheat treated with artificial honeydew in France 2009 BASF Report No.: 2009/1050233 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/08	Rentschler S.	2010b	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in a semi-field study on wheat treated with artificial honeydew in France 2009. Report Amendment No. 1. BASF Report No.: 2010/1126025 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.5/09	Rentschler S.	2010c	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in a semi-field study in <i>Phacelia tanacetifolia</i> in France 2009 BASF Report No.: 2009/1050232 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.1.6/01	Liepold K.	2010	Assessment of side effects of BAS 310 55 I on the honey bee ( <i>Apis mellifera L.</i> ) in the field BASF Report No.: 2009/1050236 Eurofins Agroscience Services GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/02	Barth M.	2009	Effects of BAS 310 51 I on the honeybee <i>Apis mellifera L.</i> under field conditions after application during and after bee-flight BASF Report No.: 2009/1000081 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/03	Schmitzer S.	2009c	Toxicity testing BAS 310 51 I on honey bees ( <i>Apis mellifera L.</i> ) in the field BASF Report No.: 2009/1000083 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/04	Hecht-Rost S.	2009	Assessment of side effects of BAS 310 51 I on the honey bee ( <i>Apis mellifera L.</i> ) in the field BASF Report No.: 2007/1043339 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.1.6/05	Schmitzer S.	2010	Toxicity testing BAS 310 55 I on honey bees (Apis mellifera L.) in the field BASF Report No. : 2009/1050237 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/06	Class T.	2007	Residues of Alpha-Cypermethrin in honey and pollen BASF Report No.: 2007/1013272 PTRL Europe GmbH, Ulm, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/07	Mack P.	2014a	Determination of residues of BAS 310 55 I in nectar, pollen and flowers of winter oil seed rape after one application in Germany 2013 BASF Report No.: 2014/1000203 Eurofins Agroscience Services EcoChem GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.1.6/08	Mack P.	2014b	Determination of residues of BAS 310 55 I (Alpha-Cypermethrin) in nectar, pollen and flowers of winter oilseed rape after one application in a semi-field residue study with honeybees ( <i>Apis mellifera L.</i> ) in Germany 2014  BASF Report No.: 2015/1000382 Eurofins Agroscience Services EcoChem GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/09	Niederdrenk S.	2015	Residues of BAS 310 55 I in bee-relevant matrices (flowers, nectar, pollen) of winter oil seed rape ( <i>Brassica napus</i> ) from residue studies and of Alpha-Cypermethrin solo-formulations in <i>Phacelia tanacetifolia</i> derived from bee effect studies  BASF Report No.: 2014/1306865 BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal
KCP 10.3.1.6/10	Becker R. & Mastitsky S.	2013	Statement regarding the bee classification of Fastac ME (BAS 310 55 I, active ingredient alpha-cypermethrin) in Germany  BASF Report No.: 2013/1125977 BASF SE, Limburgerhof, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.2.1/01	Vaughan R.	2008	A rate-response laboratory test to determine the effects of BAS 310 51 I on the predatory mite, Typhlodromus pyri (Acari: Phytoseiidae) BASF Report No.: 2008/1010706 Mambo-Tox Ltd., Southampton SO16 7NP, United Kingdom GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.1/02	Stevens J.	2008a	A rate-response laboratory test to determine the effects of BAS 310 51 I on the parasitic wasp, Aphidius rhopalosiphi (Hymenoptera, Braconidae) BASF Report No.: 2008/1010707 Mambo-Tox Ltd., Southampton SO16 7NP, United Kingdom GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.2/01	Hanewald N.	2008	Effects of BAS 310 51 I on the predatory mite Typhlodromus pyri (Acari: Phytoseiidae) in an extended laboratory trial - Dose response design BASF Report No.: 2008/1026395 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.2.2/02	Schwarz A.	2012	Effects of BAS 310 55 I on the predatory mite Typhlodromus pyri under extended laboratory conditions - Aged residue test BASF Report No. : 2010/1228113 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Roseldorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.2/03	Stevens J.	2008b	A rate-response extended laboratory test to determine the effects of BAS 310 51 I on the parasitic wasp, Aphidius rhopalosiphi (Hymenoptera, Braconidae) BASF Report No.: 2008/1010718 Mambo-Tox Ltd., Southampton SO16 7NP, United Kingdom GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.2/04	Roehlig U.	2008	Effects of BAS 310 51 I on the ladybird Coccinella septempunctata L. under extended laboratory conditions - Rate-response test BASF Report No.: 2008/1032667 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 10.3.2.2/05	Spincer D.	2008	A rate-response extended laboratory test to determine the effects of BAS 310 51 I on the green lacewing, Chrysoperla carnea (Neuroptera, Chrysopidae) BASF Report No.: 2008/1010705 Mambo-Tox Ltd., Southampton SO16 7NP, United Kingdom GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.2/06	Noe J.	2008	Effects of BAS 310 51 I on the predatory bug Orius laevigatus (Fieber) (Heteroptera: Anthocoridae) in an extended laboratory trial - Dose response BASF Report No.: 2008/1085366 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.2/07	Schmitzer S.	2008b	Effects of BAS 310 51 I on the reproduction of rove beetles Aleochara bilineata - Extended laboratory study BASF Report No. : 2008/1010699 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

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**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.2.4/01	Knaebe S.	2009a	A field trial assessing the impact of multiple applications of Alphacypermethrin (100 g/L, SC) on the non-target arthropod fauna in cereals in Germany BASF Report No.: 2008/1091409 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.4/02	Knaebe S.	2009b	A field trial assessing the impact of multiple applications of Alphacypermethrin (100 g/L, SC) on the non-target arthropod fauna of a winter wheat crop (France) BASF Report No.: 2009/1117839 Eurofins-GAB GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.4/03	Graef D.	2011a	A non-GLP field study to evaluate the effects of BAS 310 55 I on predatory mites (Acari: Phytoseiidae) in a vineyard in Northern France - 2 early applications BASF Report No.: 2010/1032746 Eurofins Agroscience Services GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.3.2.4/04	Graef D.	2011b	A non-GLP field study to evaluate the effects of BAS 310 55 I on predatory mites (Acari: Phytoseiidae) in a vineyard in Southern France - 2 early applications BASF Report No.: 2010/1032764 Eurofins Agroscience Services GmbH, Niefern-Oeschelbronn, Germany Fed.Rep. Not GLP, not published	No	No	Not applicable	BASF	Submitted for the purpose of renewal
KCP 10.3.2.4/05	Bakker F.	2013a	Terrestrial mesocosm study to assess effects of BAS 310 55 I (50 g/L formulation of BAS 310 I) on non-target, surface- and plant -dwelling, arthropod fauna of a grassland habitat in SW France when exposed to low concentrations during spring BASF Report No.: 2011/1102469 Mitox Consultants, Amsterdam, Netherlands GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.3.2.4/06	Bakker F.	2013b	A terrestrial mesocosm study" to assess the effects of BAS 310 55 I on the non-target plant-dwelling acarine fauna of a grassland habitat in SW France, when exposed to low concentrations during spring BASF Report No.: 2011/1293111 Mitox Consultants, Amsterdam, Netherlands GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.4.1.1/01	Luehrs U.	2008a	Effects of BAS 310 51 I on reproduction and growth of earthworms Eisenia fetida in artificial soil with 5% peat BASF Report No. : 2008/1010607 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.4.1.2/01	Schulz L.	2014 a	Effects of BAS 310 55 I on earthworms under field conditions BASF Report No.: 2012/1000062 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.4.2.1/01	Luehrs U.	2008b	Effects of BAS 310 51 I on reproduction of the Collembola Folsomia candida in artificial soil with 5% peat BASF Report No. : 2008/1037122 Institut fuer Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal

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**Alpha-cypermethrin**

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 10.4.2.1/02	Schulz L.	2011	Effects of BAS 310 55 I on the reproduction of the predatory mite Hypoaspis aculeifer BASF Report No.: 2011/1101483 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.5/01	Schulz L.	2008a	Effects of BAS 310 51 I on the activity of soil microflora (nitrogen transformation test) BASF Report No.: 2008/1010666 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.6.2/01	Dutille H., Sack D.	2008	BAS 310 51 I: Effects on non-target plants in the greenhouse - A multiple dose test BASF Report No.: 2008/1083480 BASF SE, Limburgerhof, Germany Fed.Rep. GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal
KCP 10.6.2/02	Stroemel C.	2010	Effect of BAS 310 55 I on seedling emergence and seedling growth of six species of terrestrial plants BASF Report No.: 2010/1053065 Agro-Check Dr. Teresiak & Erdmann GbR, Lentzke, Germany Fed.Rep. GLP, not published	No	No	N/A	BASF	Submitted for the purpose of renewal

List of information, tests and studies which are considered as relied upon by the RMS for the evaluation with a view to the renewal of approval of the active substance  
**Alpha-cypermethrin**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
KCP 10.7/01	Vertesi A.	2008	Acute toxicity of BAS 310 51 I on earthworms (Eisenia fetida) in artificial soil with 5% peat BASF Report No.: 2008/1010745 LAB Research Ltd., Veszprem, Hungary GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal
KCP 10.7/02	Schulz L.	2008b	Effects of BAS 310 51 I on the activity of soil microflora (carbon transformation test) BASF Report No.: 2008/1010667 BioChem agrar Labor fuer biologische und chemische Analytik GmbH, Gerichshain, Germany Fed.Rep. GLP, not published	No	Yes	New data for AIR3 renewal	BASF	Submitted for the purpose of renewal