

# ***European Commission***



**Renewal Assessment Report prepared according to the Commission  
Regulation (EU) N° 1107/2009**

**MECOPROP-P**

**Volume 2**

Rapporteur Member State : United Kingdom  
Co-Rapporteur Member State : Ireland

**Version History**

<b>When</b>	<b>What</b>
31/03/2016	Initial Renewal Assessment Report (RAR)

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## **A. LIST OF THE TESTS, STUDIES AND INFORMATION SUBMITTED**

This list of references includes all study reports, documents, and published articles submitted, by the applicant or any other parties, or included in the RAR by the RMS, and whether relied upon or not (including those studies submitted in support of the original Annex I inclusion (identified in *italics*)). It includes references on the active substance as well as references on product(s).

The list has been prepared according to the "Guidance Document on preparing list of tests and study reports according to Article 60 of Regulation (EC) No 1107/2009" (GD SANCO/12580/2012).

### **Background on data ownership:**

In support of the original Annex I inclusion BASF AG submitted a dossier to the RMS on behalf of the 'Mecoprop-P Dossier Preparation Working Group' formed between BASF AG, Rhone-Poulenc Agro and A H Marks and Co Ltd. Nufarm UK Limited submitted a dossier on behalf of the 'Nufarm Dossier Preparation working group' formed by Agrolinz (later Nufarm Pflanzenschutz GmbH & Co. LG) and Nufarm UK Limited. In December 2001 Aventis Crop Science (former Rhone Poulenc Agro) took over from the Nufarm Dossier Preparation Working Group its re-registration dossier of mecoprop-P. In April 2008 Nufarm UK Ltd. acquired A H Marks and Co. Ltd. and all data relating to the EU Review of mecoprop-P. Data ownership is therefore now transferred to Nufarm.

### **A.1. IDENTITY**

<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>Verteb rate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justificatio n if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 1.11/01 & CA 4.1.1/05	Mahmood, T.	2014a	The Analysis of Seven Batches of mecoprop-P TGAL. Report No. 14/0861 GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 1.11/02 & CA 4.1.1/06	Schoisswo hl, D and Nigitz, H- P.	2009	Analysis for Tetra- to Octa-chlorinated dioxins and furans in seven batches of (+)- (R)-2-(4-chloro-2- methylphenoxy) propanoic acid (MCP-P-O, mecoprop-P) Nufarm_1208a UIS Institute for Industrial and Environmental Analysis, Austria GLP	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 1.11/05 & CA 4.1.1/05	Schoisswo hl, D.	2011	Analysis for tetra- to octa-chlorinated dioxins and furans in seven batches of Mecoprop-P technical acid	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.



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
			Nufarm_0611b Synlab Umweltinstitut GmbH GLP Not published ⇒ CA 1.11/02					
CA 1.11/03	May, K	2011	Mecoprop-P Bacterial Reverse Mutation Test Huntingdon Life Sciences, Suffolk, UK KPN0183 GLP Not published	N	N	New data submitted	Nufarm	Submitted for the purposes of renewal
CA 1.11/03	Thompson, P.	2014	Mecoprop-P: Reverse Mutation Assay 'Ames Test' using Salmonella typhimurium and Escherichia coli. 41402473 Harlan Laboratories Limited GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
CA 1.11/04	Naran, V	2015	DEREK Evaluation of the toxicity of Mecoprop-p and three impurities KPN0322 LSR Associates Ltd Non-GLP Unpublished	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
CA 1.11/01 & CA 4.1.1/04	Calvert, A	2015a	Identification of Impurity 14 No report number Not GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 1.11/01	Calvert, A	2015b	Stability of Impurity 5 in mecoprop-P No report number Not GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 1.11/01	Calvert, A	2015c	Identity evaluation of 4-chloro-2-methylphenol (PCOC) produced at	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.

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
			Nufarm UK Limited (Wyke) AC529/45 Not GLP Not published					
CA 1.11/ & 4.1.1/08	Ordsmith, N	2010	Confirmation of Impurities in Mecoprop-P (CMPP-P) by LC-MS Hall Analytical Laboratories Ltd, UK HAL10-092 GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 4.1.1/07	Mahmood, T	2014b	Validation of an analytical method for the determination of 2,4-DP in mecoprop-P TGAI Report No. 14/0860 GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 4.1.1/06	Wilson, I.	2010	Validation of an analytical method for the determination of impurities in mecoprop-P TGAI Report No. 09/0522 GLP	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.
CA 4.1.1/01	Wilson, I.	2011	The analysis of six batches of R(+) 2-(4-chloro-2-methylphenoxy)propionic acid (Mecoprop-P) TGAI 10/0549 Nufarm UK Ltd GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal.

**A.2. PHYSICAL AND CHEMICAL PROPERTIES**

Please note that the data studies submitted for the purpose of renewal under Regulation 844/2012 and evaluated in Volume 3CA Section B2 (physical and chemical properties of the active substance) replace the original Annex I data that were owned by BASF (no longer supporting mecoprop-P).

<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>
<i>IIA. 2.1</i>	<i>Türk W</i>	<i>1994 (a)</i>	<i>Determination of the appearance, the melting point and thermal conversions of mecoprop-P (Reg.No. 154241)(PAI) BASF, Lab. Study PCP 03318 Task Force KII 2.1: Reg. Doc. No. BASF 94/11698</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
KCA 2.1/01 2.2/01, 2.3/01, 2.4/01, 2.5/01, 2.7/01, 2.8/01, 2.12/01 2.14/01	Comb. A.L.	2000a	Mecoprop-P (pure grade) physico- chemical properties NUF004/99352 3 Huntingdon Life Sciences Ltd GLP Not published	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
<i>IIA. 2.2</i>	<i>Helvoirt JAMW, Gomez F</i>	<i>1994</i>	<i>Determination of the density of mecoprop-P. NOTOX, Hertogenbosch, The Netherlands Rhône-Poulenc Study no. 94-74 Task Force KII 2.3: Reg. Doc. No. BASF 94/10790</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</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
			GLP: Y Published: N					
IIA. 2.2	Kröhl T	1994 (a)	Physical and chemical properties report for mecoprop-P (154 241) BASF, Lab. study PCF 01409 Task Force KII 2.2: Reg. Doc. No. BASF 94/10790 GLP: Y Published: N	N	Y	-	BAS	DAR (1998)
IIA. 2.3.1 IIA. 2.3.2	Gomez F, Duverney- Pret P	1994	Mecoprop-P. Determination of the vapour pressure. Rhône-Poulenc study No. 94-27 Task Force KII 2.5: Reg. Doc. No. BASF 94/117 GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA. 2.3.1	Gückel	1988	Determination of the vapour pressure of mecoprop-P. BASF, Febr. 2, 1988 Task Force KII 2.4: Reg. Doc. No. BASF 88/10266 GLP: N Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA. 2.3.2	Ohnsorge U	1994	Henry's Law Constant for mecoprop-P. BASF, Apr. 27, 1994	N	Y	-	BAS	DAR (1998)



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
			<i>Task Force KII 2.6: Reg. Doc. No. BASF 94/10259 GLP: N Published: N</i>					
<i>IIA. 2.4 IIA. 2.1</i>	<i>Kästel R</i>	<i>1994</i>	<i>Physical and chemical properties report for mecoprop-P (technical) BASF, Lab study Code PCP01246, January 1994 Task Force KII 2.7: Reg. Doc. No. BASF 94/10181 GLP: Y Published: N</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
KCA 2.4/02	Calvert, A.	2010	Identity evaluation of 4-chloro-2- methylphenol (PCOC) produced at Nufarm UK Limited (Wyke) AC529/45 Nufarm UK Ltd Not GLP Not published	N	N	New data submitted	Nufarm	Submitted for purposes of renewal
<i>IIA. 2.5</i>	<i>Türk W</i>	<i>1994 (b)</i>	<i>Spectra of mecoprop-P. Reg. No. 154241 (PAI). BASF. Lab.Study PCP03185, Task Force KII 2.8: Reg. Doc. No. BASF 94/11100</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</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
			GLP: Y Published: N					
IIA. 2.6	de Vries R, & Gomez F	1994 (a)	Determination of the water solubility of mecoprop-P. NOTOX, Hertogenbosch, The Netherlands Rhône-Poulenc Study no. 94-76 Task Force KII 2.10: Reg. Doc. No. BASF 94/11755 GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA. 2.6	Pawliczek	1987	Determination of the solubility of mecoprop-P in water at different pH values. BASF, Lab. report No 2443 Task Force KII2.9: Reg. Doc. No. BASF 87/0516 GLP: Y Published: N	N	-	-	BAS	DAR (1998)
KCA 2.6/01	Wilson. I	2014	Solubility of Mecoprop-p in Organic Solvents 14/0866 Nufarm UK Limited GLP Not published	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
IIA. 2.7	de Vries R, & Gomez F	1994 (b)	Determination of the solubility of mecoprop-P in 9 organic solvents.	N	Y (but expired)	-	BAS	DAR (1998)

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
			NOTOX, Hertogenbosch, The Netherlands Rhône-Poulenc Study no. 94-77 Task Force KII 2.11: Reg. Doc. No. BASF 94/11756 GLP: Y Published: N					
IIA. 2.8	de Vries R, & Gomez F	1994 (c)	Determination of the partition coefficient (n- octanol/water) of mecoprop-P (flask-shaking method) at 3 pH values. NOTOX, Hertogenbosch, The Netherlands Rhône-Poulenc Study no. 94-78 Task Force KII 2.13: Reg. Doc. No. BASF 94/11757 GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA: 2.8	Redeker J	1991 (a)	Determination of the Octanol/water- partition coefficient of mecoprop-P by HPLC. BASF, Lab. Report 3218, Sept 1991 Task Force KII 2.12: Reg. Doc. No. BASF 91/10903 GLP: Y	N	-	-	BAS	DAR (1998)



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
			<i>Published: N</i>					
KCA 2.9/01 2.11/01, 2.13/01	Comb. A.L.	2000b	Mecoprop-P (technical grade) physico- chemical properties NUF002/99327 4 Huntingdon Life Sciences Ltd GLP Not published CA 2.9/01	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
<i>IIA. 2.9.1</i>	<i>BASF</i>	<i>1982</i>	<i>Verhalten von Pflanzenbehan- dungsmitteln im Wasser. Mecoprop BASF Versuchsstation Limburgerhof, 04.01.1982 Task Force KII 2.14: Reg. Doc. No. BASF 82/10160 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA. 2.9.1</i> <i>IIA. 2.9.2</i>	<i>Obrist JJ</i>	<i>1986</i>	<i>Photodegradati on and hydrolysis of mecoprop in aqueous buffer. Hazleton Lab. Am, HLA 6015- 320. Sept. 8, 1986 Task Force KII 2.15: Reg. Doc. No. BASF 86/0484 Nufarm Task Force KII: 2.9.1/01 GLP: Y Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS NUF</i>	<i>DAR (1998)</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
IIA. 2.9.2	Obrist JJ	1990	Supplement No. 1 to the final report: Photodegradation and hydrolysis of mecoprop in aqueous buffer. Hazleton Laboratories America, USA. Task Force KII 2.16: Reg. Doc. No. BASF 90/0205 Nufarm Task Force KII: 2.9.1/02 GLP: Y Published: N	N	-	-	BAS NUF	DAR (1998)
IIA. 2.9.3	Klöpffer W	1991	Determination of the phototransformation in water of mecoprop-P according to UBA test guideline Direct Phototransformation. Batelle-Institute, Frankfurt, Study BE-P-49-91-PHO-02 Task Force KII 2.17: Reg. Doc. No. BASF 91/11120 GLP: Y Published: N	N	-	-	BAS	DAR (1998)
IIA. 2.9.4	Redeker J	1991 (b)	Determination of the pKa of mecoprop-P in water at 20°C. BASF, Lab. Report 3220,	N	-	-	BAS	DAR (1998)

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
			<i>August 1991 Task Force KII 2.18: Reg. Doc. No. BASF 91/10721 GLP: Y Published: N</i>					
<i>IIA. 2.9.5</i>	<i>Redeker J</i>	<i>1991 (c)</i>	<i>Determination of the light stability of Mecoprop-P technical grade. BASF, Lab. Report 3215, August 1991 Task Force KII 2.19: Reg. Doc. No. BASF 91/10790 GLP: Y Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA. 2.10</i>	<i>Sarafin R</i>	<i>1991</i>	<i>Photochemical oxidative degradation of mecoprop (Atkinson). BASF, Lab. Report 3157, June 1991 Task Force KII 2.20: Reg. Doc. No. BASF 91/10327 GLP: Y Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA. 2.11</i>	<i>Löffler U</i>	<i>1994</i>	<i>Safety characteristics of the active ingredient 154241. BASF Lab study SIK Nr.94/1252 Task Force KII 2.22: Reg. Doc. No. BASF 94/11049</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</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
			<i>GLP: Y</i> <i>Published: N</i>					
<i>IIA 2.13</i>	<i>Urban Courtaulds , P.G.</i>		<i>Breitherrick's Handbook of reactive Chemical Hazards 5th Ed., Vol. 1 GLP: N Published: Y</i>	<i>N</i>	<i>N</i>	<i>-</i>	<i>BAS</i>	<i>DAR Addendum II July 2002</i>
<i>IIA. 2.15</i>	<i>Redeker J</i>	<i>1991 (d)</i>	<i>Determination of the oxidizing and reducing action of mecoprop-P technical grade. BASF, Lab. Report 3235, December 1991 Task Force KII 2.23: Reg. Doc. No. BASF 91/11179 GLP: Y Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>

**Product: Mecoprop-P K 600 g/L**

Please note that the data studies submitted for the purpose of renewal under Regulation 844/2012 and evaluated in Volume 3CP Section B2 (physical and chemical properties of the plant protection product) replace the original Annex I data.

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
<i>IIIA. 2.1 to 2.9</i>	<i>Kröhl T</i>	<i>1994 (b)</i>	<i>Physical and chemical properties report for Duplosan KV (BAS 037 29 H) BASF, Lab. study PCF 01403, Dec 19, 1994. Task Force KIII 2.1: Reg. Doc. No. BASF 94/11196 GLP: Y Published: N</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</i>
KCP 2.1/01 2.4/01, 2.6/02, 2.7.1- 2.7.3/01, 2.8.2, 2.8.4,	Mahmood, T.	2012	Mecoprop-P K 600 Accelerated Storage Stability 12/0697 Nufarm UK Limited GLP Not published	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal
KCP 2.1/02 2.4/02 2.6/03 2.7/03 2.7.5/02 2.8.2/02 2.8.4/02	Mahmood, T	2014	Mecoprop-P K 600 Two year storage stability 12/0717 Nufarm UK Limited GLP Not published	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal
<i>IIIA. 2.2</i>	<i>Löffler U</i>	<i>1994 (b)</i>	<i>Safety characteristics of the crop protection product BAS</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</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
			037 29 H. BASF LAB Study SIK-Nr. 94/1254, Oct. 07, 1994 Task Force KIII 2.2: Reg. Doc. No. BASF 94/10879 GLP: Y Published: N					
KCP 2.2/01 2.2/02 2.3.1/01 2.3.3/01	Turner, B.	2006	Duplosan KV Physico- Chemical Properties NUF133/05390 2 Huntingdon Life Sciences Ltd, UK GLP Not published	N	N		Nufarm	Submitted for purposes of renewal
KCP 2.3.1/02	Bass, R.V.	2000	Optica: Determination of the Flash Point A H Marks, UK 00/0138 GLP Not published	N	N		Nufarm	Submitted for purposes of renewal
KCP 2.5/01	Wilson, I.	2015	MCP-P K 600 g/l Determination of dynamic viscosity 15/0968 Nufarm UK Limited GLP Not published	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal
KCP 2.5/02	L. Da Conceicao	2015	CA3015 determination of surface tension	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal

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
			02107 Nufarm UK Limited GLP Not published					
KCP 2.5.2/01 2.5.3/01 2.6/01	Bass, R.V.	1999	The Chemical and Physical Properties of Optica (CMPP- p K salt solution at 600 g l <sup>-1</sup> CMPP-p acid 99/0084 A H Marks, UK GLP Not published	N	N		Nufarm	Submitted for purposes of renewal
KCP 2.5.3/02	Adam, C.	2010	Duplosan KV Determination of surface tension 01041 Nufarm SAS, France GLP Not published	N	Y	Newly submitted data	Nufarm	Submitted for purposes of renewal
III.A. 2.7	Ohmsorge U	1991	Duplosan KV. Data on the storage stability. BASF Lab. study April 2, 1992/sh/474 Task Force KIII 2.4: Reg. Doc. No. BASF 91/10129 GLP: N Published: N	N	-	-	BAS	DAR (1998)
III.A. 2	Uceda L & Viziere G	1994	Astix/EXP0448 6C. Determination of physical and chemical	N	-	-	BAS	DAR (1998)



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
			<i>properties and accelerated storage stability Rhône-Poulenc Study No. 94- 79, Dec. 12, 1994. Task Force KIII 2.3: Reg. Doc. No. BASF 95/10279 GLP: Y Published: N</i>					
III A 2.7	Kröhl, T	1994	<i>Physical and chemical properties report for Duplosan KV – BAS 037 29H Dec. 1994 GLP: Y Published: N</i>	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)
III A 2.7	König, W.	1997	<i>Storage stability in original container of BAS 037 29 H. Two year study. Analytical results Jan. 1997 GLP: Y Published: N</i>	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)
III A 2.7	Kästel, R.	1997	<i>Shelf life in original container of BAS 037 29 H. Physical properties report (24- month- storage) April 1997</i>	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)

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
			<i>GLP: Y</i> <i>Published: N</i>					
KCP 2.7.2/02 2.7.4/01	Wilson, I.	2009	MCP-P K 600 g/l - Certificate of Analysis and Low Temperature Stability 09/0453 Nufarm UK Limited GLP Not published	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal
KCP 2.7.5/01	Ackroyd, C.	2001	Two Year Storage Stability of R(+)-2-(4- chloro-2- methylphenoxy )propionic acid potassium salt, at 600 g l <sup>-1</sup> of R(+)-2-(4- chloro-2- methylphenoxy )propionic acid 99/0094 A H Marks, UK GLP Not published	N	N		Nufarm	Submitted for purposes of renewal
CP 2.9/01	MacBean, C and Turner, J	2012 (paper) 2014 (online)	Pesticide Manual, British Crop Protection Council, UK ISBN 978 1 901396 86 7 (OR online) (contact publications@ bcpc.org)	N	N		Public	Submitted for purposes of renewal

## A.3. DATA ON APPLICATION AND EFFICACY

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
IIA. 3.1 to 3.5	Kirkwood RC	1983	<i>The relationship of metabolism studies to the modes of action of herbicides. Pesticide Science 14: 453-460 Task Force KII 3.3: GLP: N Published: Y</i>	N	-	-	Nufarm	DAR (1998)
IIA. 3.6	Coupland D	1994	<i>Resistance to the Auxin analog herbicides. Powles SB &amp; Holtum JAM (Eds): Herbicide resistance in Plants - Biology and biochemistry. Lewis Publ. Boca Raton Fl. pp 171-214. Task Force KII 3.4: GLP: N Published: Y</i>	N	-	-	Nufarm	DAR (1998)
IIA. 3.7	BASF	1994	<i>Duplosan CMPP acid technical: BASF Safety Data Sheet. BASF safety data sheet AP0031-P, March 28, 1994 Task Force KII 3.5 GLP: N Published: N</i>	N	-	-	Nufarm	DAR (1998)
IIA. 3.9	Petrie AJ,	1993	<i>The</i>	N	-	-	Nufarm	DAR (1998)

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
	Melvin MAL, Plane NH, Littlejohn JW		effectiveness of water treatment processes for removal of herbicides. The Science of the Total Environment 135: 161-169 Task Force KII 3.7: GLP: N Published: Y					
IIA. 3.9	Schenk W	1994	Possible procedures for the decontaminatio n of water from MCP. P. BASF Lab. study 132 303, Aug. 11, 1994 Task Force KII 3.6: GLP: N Published: N	N	-	-	Nufarm	DAR (1998)

## A.4. FURTHER INFORMATION

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
KCA 3	Kirkwood, R C.	(1983)	"The Relationship of Metabolism Studies to the Modes of Action of Herbicides", Pesticide Science 14, pages 453-460	N	N		N/A	DAR (1998)
KCA 3	Weed Resistance Action Group	2003	"Managing and preventing herbicide resistance in weeds" <a href="http://www.pesticides.gov.uk/guidance/industries/pesticides/advisory-groups/Resistance-Action-Groups/wrag/herbicide-resistance-management-product-use">http://www.pesticides.gov.uk/guidance/industries/pesticides/advisory-groups/Resistance-Action-Groups/wrag/herbicide-resistance-management-product-use</a>	N	N		N/A	Submitted for purposes of renewal
Doc H	Nufarm	2010	Safety Data Sheet, Mecoprop-P [(R)-2-(4- chloro-2- methylphenoxy) propanoic] Version 16, Dated 15.10.2010 Not GLP Published	N	N	-	Nufarm	Submitted for purposes of renewal

**Product: Mecoprop-P K 600 g/L**

<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 4.2.1/01	Wilson, I.	2012	Mecoprop-P K 600 g/l – Small Scale Jar Test 12/0710 Nufarm UK Limited GLP Not published	N	Y	New data requirements	Nufarm	Submitted for purposes of renewal
KCP 4.2.1/02	Stadler, R	2002	BAS 037 32 H Duplosan – Effectiveness of Procedures for Cleaning Application Equipment and Protective Clothing 2002/1005097 BASF Aktiengesellsc haft, Germany Not GLP Not published	N	N		Nufarm	Submitted for purposes of renewal



## A.5. METHODS OF ANALYSIS

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
IIA. 4.1	Brenner, K.S.	1986	Analytical Method Vo. V No. 19717, Determination of polychlorinated dibenzo-p- dioxins (PCDDS) and dibenzofuranes (PCDFs) in 2,4- dichlorophenox yacetic acid tech. Task Force KII 4.6: Reg. Doc. No. BASF 86/10813 GLP: N Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA. 4.1	Brenner, K.S.	1993	Annex to Analysis of mixed sample mecoprop-P. Deviations from Analytical Method 1917. Task Force KII 4.7: Reg. Doc. No. BASF 93/11638 GLP: N Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA. 4.1	DAPA	1994	CIPAC Analytical method 475/TC/M- Task Force KII 4.1: Reg. Doc. No. BASF 94/11752 GLP: N	N	-	-	BAS	DAR (1998)



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
			<i>Published: N</i>					
<i>IIA. 4.1</i>	<i>Petersen, Thiery M.</i>	<i>1992</i>	<i>CP No 169; Determination of mecoprop-P and technical impurities in technical active ingredient by HPLC  Task Force KII 4.2: Reg. Doc. No. BASF 92/12196 GLP: Y Published: N</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA. 4.1</i>	<i>Petersen, Thiery M.</i>	<i>1994</i>	<i>CP No 191/1; Determination of the impurity Reg. No. 298552 in technical dichlorprop-P and in technical mecoprop-P  Task Force KII 4.4: Reg. Doc. No. BASF 94/10631 GLP: Y Published: N</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA 4.1</i>	<i>?</i>	<i>?</i>	<i>Validation of HPLC-method CP 169: Determination of mecoprop-P and technical impurities in techn. Mecoprop-P GLP: Y Published: N</i>	<i>N</i>	<i>Y</i>	-	<i>BAS</i>	<i>DAR Addendum II (July 2002)</i>
<i>IIA. 4.1</i>	<i>Ross, T., Wadher, S.</i>	<i>1995a</i>	<i>Method of Analysis - Active Isomers in Technical Phenoxy Acetic and Technical</i>	<i>N</i>	-	-	<i>NUF</i>	<i>DAR (1998)</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
			<i>Phenoxy Propionic Acids, Formulations and Esters including Dicamba. Nufarm KII 4.1.1/01 GLP: N Published: N</i>					
<i>IIA. 4.1</i>	<i>Ross, T., Wadher, S.</i>	<i>1995b</i>	<i>Enantiomeric Ration of Active Isomer in 2,4- DP of CMPP Formulations. Nufarm KII 4.1./02 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>NUF</i>	<i>DAR (1998)</i>
<i>IIA. 4.1</i>	<i>Ross, T., Wadher, S.</i>	<i>1995c</i>	<i>Analysis of Isomer Distribution in Phenoxy Acid by GLC. Nufarm KII 4.1.1/03 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>NUF</i>	<i>DAR (1998)</i>
<i>IIA. 4.1</i>	<i>Silvestre, D.</i>	<i>1988</i>	<i>Determination of polychlorinated dibenzo-p- dioxins and dibenzofuranes in 2,4-D, 2,4- DB, 2,4-DP, MCPA and MCPP by GC/MS Task Force KII 4.8: Reg. Doc. No. BASF 88/10855 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS NUF</i>	<i>DAR (1998)</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
KCA 4.1.1/01	Wilson, I.	2011	The analysis of six batches of R(+) 2-(4- chloro-2- methylphenoxy )propionic acid (Mecoprop-P) TGAI 10/0549 Nufarm UK Ltd GLP Not published ⇒ Filed in Confidential Document J	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/01	██████ ██████	2008	Dietary two year carcinogenicity study in the rat ██████████ ██████████ ██████████ ██████████ ██████████ GLP Not published ⇒ CA 5.5/01	Y	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/02	██████ ██████	2003	Mecoprop-P: oral (dietary administration) preliminary reproduction toxicity study in the rat ██████████ ██████████ ██████████ ██████ GLP Not published ⇒ CA 5.6.1/01	Y	N	N/A	Nufarm	Submitted for purposes of renewal
KCA	██████████	2013	Mecoprop-P	Y	Y	New data	Nufarm	Submitted

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
4.1.2/03			livestock feeding study: magnitude of residue in milk, muscle, liver, kidney and fat of lactating dairy cattle ██████████ ██████████ GLP Not published ⇒ CA 6.1/01			submitted		for purposes of renewal
KCA 4.1.2/04	Rawle, N.	2014	Frozen Storage Stability Study for Mecoprop- P, HMCPP, CCPP and PCOC in Bovine Specimens CEMR-6048 CEMAS GLP Not published ⇒ CA 6.1/02	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/05	Anding, C.	2011	Stability study of Mecoprop-P in soft winter wheat (grain, straw and green plant) after a nineteen months storage in a congelator at a temperature under minus 18°C AVE/00-033 Defitraces GLP Not published ⇒ CA 6.1/03	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA	Perny, A.	2002	Residue	N	N	N/A	Nufarm	Submitted

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
4.1.2/06			decline of Mecoprop-P potassium salt in cereals in Southern Europe R A0119 Anadiag GLP Not published ⇒ 6.3.1/02					for purposes of renewal
KCA 4.1.2/07	Gallais, C.	2002a	Residue decline of Mecoprop-P potassium salt in cereals in Southern Europe R A1135 Anadiag GLP Not published ⇒ CA 6.3.1/04	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/08	Tandy, R.	2014a	Determination of residues of Mecoprop-P after a single application of Mecoprop-p K 600 in cereals at 4 sites in Northern Europe 2013 S13-00323 Eurofins Agroscience Services GLP Not published ⇒ CA 6.3.1/05	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/09	Beck, J.; Fegert, A.; Mackenrot	1997a	Study on the residue behaviour of	N	N	N/A	Nufarm	Submitted for purposes of renewal



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
	h, Ch.		Mecoprop-P in grass after two treatments with Duplosan® (BAS 037 32 H) under field conditions in Great Britain, 1996 UK/HR/01/96 BASF Aktiengesellsc haft GLP Not published ⇒ CA 6.3.2/01					
KCA 4.1.2/10	Beck, J.; Fegert, A.; Mackenrot h, Ch.	1997b	Study on the residue behaviour of Mecoprop-P in grass after treatment with Duplosan® (BAS 037 32 H) under field conditions in Great Britain, 1997 UK/HR/01/97 BASF Aktiengesellsc haft GLP Not published ⇒ CA 6.3.2/02	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/11	Wilson, A.	2008	Mecoprop-P residue study (at harvest and decline) with Duplosan KV (600 g/L Mecoprop-P) applied to grassland in Germany and	N	N	N/A	Nufarm	Submitted for purposes of renewal

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
			United Kingdom, 2007 ACI07-005 Agrochemex International Ltd GLP Not published ⇒ CA 6.3.2/03					
KCA 4.1.2/12	Couldridge , C.	2010	Determination of Mecoprop-P residues in grassland following a single application of CMPP-P K 600 g/l AI in the United Kingdom in 2009 935-09-AHM- GRA Oxford Agricultural Trials Limited GLP Not published ⇒ CA 6.3.2/04	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/13	Martin, J.	2011	Determination of residues of Mecoprop-P after one application of Mecoprop-P K 600 in grassland at 4 sites in the UK 2010 S10-02012 Eurofins Agroscience Services Ltd GLP	N	N	N/A	Nufarm	Submitted for purposes of renewal



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
			Not published ⇒ CA 6.3.2/05					
KCA 4.1.2/14	Perny, A.	2002b	Residue decline of Mecoprop-P potassium salt in grassland in Southern Europe R A0123 Anadiag GLP Not published ⇒ 6.3.2/07	N	N	N/A	Nufarm	Submitted for purposes of renewal/ (In DAR Addendum IV (Feb 2003))
KCA 4.1.2/15	Gallais, C.	2002b	Residue decline of Mecoprop-P potassium salt in grassland in Southern Europe R A1136 Anadiag GLP Not published ⇒ CA 6.3.2/09	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/16	Tandy, R.	2014b	Determination of residues of Mecoprop-P after a single application of Mecoprop-P K 600 in grassland (outdoor) at 4 sites in Southern Europe S13-00322 Eurofins Agroscience Services GLP	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal

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
			Not published ⇒ CA 6.3.2/10					
KCA 4.1.2/17	██████	1993	MCCP-P-DMA Salt – Avian Dietary LC <sub>50</sub> test in chicks of the mallard duck ( <i>Anas platyrhynchos</i> L.) ██████████ █ ██████ ██████████ █ GLP Not published ⇒ CA 8.1.1.2/01	Y	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/18	Jenkins, C.A.	2007	Mecoprop-P (DMA salt) algal growth inhibition assay <i>Navicula</i> ZZF0001/0631 20 Huntingdon Life Sciences Ltd GLP Not published ⇒ CA 8.2.6.2/01	N	N	N/A	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/19	Burke, J.	2007	Mecoprop-P (DMA salt) algal growth inhibition assay <i>Skeletonema</i> ZZF0002/0635 25 Huntingdon Life Sciences Ltd	N	N	N/A	Nufarm	Submitted for purposes of renewal

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
			GLP Not published ⇒ CA 8.2.6.2/02					
KCA 4.1.2/20	Mack, P.	2012	LAF-74: a semi-field study to investigate residues in honeybee products and honeybee larvae ( <i>Apis mellifera carnica</i> L.; Hymenoptera, Apidae) in <i>Phacelia tanacetifolia</i> in Germany in 2011 S11-02084 Eurofins Agroscience Services EcoChem GmbH GLP Not published ⇒ CA 8.3.1.4/01	N	N	N/A	Nufarm	Submitted for purposes of renewal  (Note: this study was considered for the review of 2,4-D according to Regulation 1141/2010).
KCA 4.1.2/21	Kleebaum, K.	2014	Acute toxicity of Mecoprop-P technical acid to honeybee larvae <i>Apis mellifera</i> L. under laboratory conditions ( <i>in vitro</i> ) Report No. 14 10 48 023 B BioChem agrar GLP Not published ⇒ CA	N	Y	New Data Submitted	Nufarm	Submitted for purposes of renewal

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
			8.3.1.3/01					
KCA 4.1.2/22	██████	2015	Mecoprop-p: Toxic Effects to Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) in an Early-life Stage Toxicity Test. Report No. ██████ ██████ ██████ ██████ GLP Not published ⇒ CA 8.2.2.1/01	Y	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCA 4.1.2/23	Comb. A.L.	2000	Mecoprop-P (pure grade) physic-chemical properties NUF004/993523 Huntingdon Life Sciences Ltd GLP Not published ⇒ CA 2.1/01	N	N	N/A	Nufarm	Submitted for purposes of renewal
IIA 4.2.1 IIIA 5.2	Reichert N	?	Development and Validation of Method of Analysis for the Determination of Mecoprop-P (MCP-P) and Dichlorprop-P (2,4-DP-P) in Cereals Method No. AR 258-00 Study No.: IF-100/25890-00	N	Y	-	BAS	DAR Addendum II (July 2002)

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
			<i>Institut Fresenius, D- 65232 Taunusstein, Germany Task Force MCP-P and Task Force 2,4- DP-P, 1988 Sponsor's Study No. 00- 156 (BASF DocID 2000/1019842) GLP: Y Published: N</i>					
<i>IIA 4.2.1 IIIA 5.2</i>	<i>Class T</i>	<i>?</i>	<i>Independent Laboratory Validation (ILV) of Method AR 258-00 for the Determination of Mecoprop-P (MCP-P) and Dichlorprop-P (2,4-DP-P) in Cereals PTL Europe Study No. P 449 G PTL Europe Study Report No. B 449 G PTL Europe, D-89081 Ulm, Germany Task Force MCP-P and Task Force 2,4- DP-P, 1988 (BASF DocID 2000/1020475) GLP: Y Published: N</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR Addendum II (July 2002)</i>
KCA	Allen, L.	2014a	Analytical method for the	N	Y	New data	Nufarm	Submitted for purposes



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
4.2/01			determination of phenoxy acids and their corresponding 2-ethyl hexyl esters and glycine conjugates in cereal grain, straw and foliage, bovine muscle, fat, liver and milk, poultry eggs, citrus fruit and olives and phenoxy acids and their corresponding 2-ethyl hexyl esters in surface water, soil and air CAM- 0004/003 CEM Analytical Services Limited (CEMAS) GLP Not published			submitted		of renewal
KCA 4.2/02	Allen, L.	2013	Validation of draft residue method CAM- 0004/001 for the determination of phenoxy acids and their corresponding 2-ethyl hexyl esters and glycine conjugates in cereal grain, straw and foliage	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal

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
			CEMR-6228 CEM Analytical Services Limited (CEMAS) GLP Not published					
KCA 4.2/03	Watson, G.	2014a	Phenoxy herbicides – independent laboratory validation of the analytical method CAM- 004/001 for the determination of phenoxy acids and their corresponding 2-ethyl hexyl esters and glycine conjugates in crops by LC- MS/MS S13-05322 Eurofins Agroscience Services GLP Not published	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
IIA 4.2.2 IIIA 5.2	Simonin B M	?	<i>Mecoprop-P and dichlorprop-P, Analytical method for the determination of residues in animal products, AR 125-96. Document number R&amp;D/CRLD/A N/9616246 Performing</i>	N	Y	-	BAS	<i>DAR Addendum II (July 2002)</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
			<i>laboratory: Rhone Poulenc Secteur AGRO, Lyon, France Task Force MCCPP-P and Task Force 2,4- DP-P, 1988 (Reg. Doc. # BASF 96/10764) GLP: Y Published: N</i>					
<i>IIA 4.2.2 IIIA 5.2</i>	<i>Reichert N</i>	<i>?</i>	<i>Independent Laboratory Validation of the Method of Analysis AR 125-96 for the determination of Mecoprop-P (MCCPP-P) and Dichloroprop-P (2,4-DP-P) in Products of Animal Origin. Study No. IF- 100/22147-00, Draft Report. Institut Fresenius, D- 65232 Taunusstein, Germany Task Force MCCPP-P and Task Force 2,4- DP-P, 1988 GLP: Y Published: N</i>	<i>N</i>	<i>Y</i>	<i>-</i>	<i>BAS</i>	<i>DAR Addendum II (July 2002)</i>
<i>IIA. 4.2.2</i>	<i>Tilting N.</i>	<i>1988</i>	<i>CG-MS Bestimmung über Phenoxyalkanc arbonsäure- methylester. Mecoprop,</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS NUF</i>	<i>DAR (1998)</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
			<i>MCPA. Boden. BASF Report Method 173/2 Nufarm Task Force KII 4.2.2/01 Task Force KII 4.12: Reg. Doc. No. BASF 88/10189 GLP: N Published: N</i>					
KCA 4.2/04	Allen, L.	2014b	Validation of draft residue method CAM- 0004/002 for the determination of phenoxy acids and their corresponding 2-ethyl hexyl esters and glycine conjugates in animal matrices (egg, milk, muscle, fat, liver, kidney), orange and olives CEMS-6229 CEM Analytical Services Limited (CEMAS) GLP Not published	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCA 4.2/05	Watson, G.	2014b	Phenoxy herbicides – independent laboratory validation of the analytical method CAM- 004/002 for the	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal

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
			determination of phenoxy acids and their corresponding 2-ethyl hexyl esters and glycine conjugates in six matrices by LC-MS/MS S14-00286 Eurofins  Agroscience Services GLP Not published					
IIA. 4.2.3	Anonymous	1985	<i>The determination of MCPA, MCPB and MCPD herbicides in river and drinking waters. HMSO publication, p 23-29, 1985. Nufarm Task Force KII 4.2.3/01 GLP: N Published: N</i>	N	-	-	NUF	DAR (1998)
IIA 4.2.3	UK Environment Agency	1997	<i>The determination of acidic herbicides, bromoxynil, ioxynil and pentachlorophe nol in waters 1997 GLP: Y Published: Y</i>	N	N	-	BAS	DAR Addendum II (July 2002)
KCA 4.2/06	Allen, L.	2014c	Validation of draft residue	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal



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
			method CAM-0004/003 for the determination of phenoxy acids and their corresponding 2-ethyl hexyl esters in surface water, soil and air CEMS-6230 CEM Analytical Services Limited (CEMAS) GLP Not published					
KCA 4.2/07	Weir, A.	2014	Phenoxy herbicides – independent laboratory validation of the analytical method CAM-004/003 for the determination of phenoxy acids and their corresponding 2-ethyl hexyl esters in drinking water by LC-MS/MS S14-01199 Eurofins   Agrosience Services GLP Not published	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
IIA. 4.2.4	Reichert N.	1994	Development and validation of a method for the determination of 2,4-D,	N	-	-	BAS NUF	DAR (1998)

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
			MCPA, Dichlorprop-P and Mecoprop-P in air. RCC Umweltchemie, Report 439705, June 7, 1994. Nufarm Task Force KII 4.2.4/01 Task Force KII 4.15: Reg. Doc. No. BASF 94/10505 GLP: Y Published: N					

## Product: Mecoprop-P K 600 g/L

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
CP 5.1.1/01	Wilson, I	2009	Duplosan KV (Mecoprop-P K 600 g/L) – Accelerated Storage and Dilution Stability. Report No: 09/0523 Nufarm UK Limited GLP Not published	N	Y	New data to new guidelines	Nufarm	Submitted for purposes of renewal
IIIA 5.2	Anonymous	1978	2,4,5-T, 2,4- DP, CMPP, 2,4-D, MCPA, MCPB; Gaschromatogr aphic determination in grass, cereals (green plants, straw, grains) and grapes, Method 143 GPE/R, Dec. 1978 Task Force, Reg. Doc. # BASF 78/10137 GLP: N Published: N	N	N	-	BAS	DAR (1998)
IIIA 5.2	Anonymous	1990	Analyses of cereals and grass for phenoxy acid and phenol contamination by GC/MS. Test Method No. 246 AH Marks GLP: N	N	N	-	BAS	DAR (1998)

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
			<i>Published: N</i>					
IIIA 5.2	D'Oliveira	1993	Mecoprop-P analytical method for determination of residues in rye grass samples, Method No. MET94-01-E Defitraces Z:A: Les Andres, Brindas, Fr. Task Force, Reg. Doc. # BASF 94/11255 GLP: N <i>Published: N</i>	N	N	-	BAS	DAR (1998)
IIIA 5.2	Keller W	1980	2,4,5-T, 2,4- DP, mecoprop, 2,4-D, MCPA, MCPB; De- termination by GC/MS of phenoxy alkane carboxylic acid methylesters in grass, cereals (green plants, straw and grain), grapes, Method 173 APE/RU, Dec. 1980 Reg. Doc. # BASF 80/10055 GLP: N <i>Published: N</i>	N	N	-	NUF	DAR (1998)
IIIA 5.2	Pfarl C	1994	Analytical method for determination of residues of 2,4-D, dichlorprop, MCPA and mecoprop in cereals and grass	N	N	-	NUF	DAR (1998)

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
			Report No 1172 Nufarm UK, Agrolinz Melamin GmbH GLP: Y Published: N					
KCP 5.1.2/01	████████	2014a	Mecoprop-p K 600 (CA3015): Acute toxicity to Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) in a 96-Hour Test ████████ ████████ ████████ ████████ GLP Not published ⇒ CP 10.2.1	Y	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.1.2/02	Liedtke, A	2014b	Mecoprop-p K 600 (CA3015): Acute Toxicity to <i>Daphnia magna</i> in a 48- Hour Immobilization Test D76033 Harlan Laboratories Ltd, Switzerland GLP Not published ⇒ CP 10.2.1	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.1.2/03	Liedtke, A	2013a	Mecoprop-p K 600 (CA3015): Toxicity to <i>Pseudokirchne riella subcapitata</i> in a 72-hour algal growth	N	Y	New data submitted	NUF	Submitted for purposes of renewal



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
			inhibition test Harlan Laboratories Ltd, Switzerland D76044 GLP Not published ⇒ CP 10.2.1					
KCP 5.1.2/04	Liedtke, A	2013b	Mecoprop-p K 600 (CA3015): Toxicity to the Aquatic Higher Plant <i>Lemna gibba</i> in a 7- day Growth Inhibition Test D76055 Harlan Laboratories Ltd, Switzerland GLP Not published ⇒ CP 10.2.1	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.2.1/05	Wilson, I	2009	MCP-P K 600 g/l - Certificate of Analysis and Low Temperature Stability 09/0453 Nufarm UK Limited GLP Not published ⇒ CP 2.7.2/02	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.2.1/06	Wilson, I	2009	MCP-P K 600 g/l - Certificate of Analysis and Low Temperature Stability 09/0453 Nufarm UK Limited	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal

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
			GLP Not published ⇒ CP 2.7.2/02					
KCP 5.1.2/07	Wilson, I	2012	Mecoprop-P K 600 Small Scale Jar Test 12/0710 Nufarm UK Limited GLP Not published ⇒ CP 4.2/01	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.2.1/0	Mahmood, T	2012	Mecoprop-P K 600 Accelerated Storage Stability 12/0697 Nufarm UK Limited GLP Not published ⇒ CP 2.1/01	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal
KCP 5.1.2/	Mahmood, T	2014	Mecoprop-p K 600 g/l - Two Year Storage Stability 12/0717 Nufarm UK Limited GLP Not published ⇒ CP 2.7.5/02	N	Y	New data submitted	Nufarm	Submitted for purposes of renewal

## A.6. TOXICOLOGY AND METABOLISM DATA

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
KCA 5.1	██████	1997	( <sup>14</sup> C)- Mecoprop-P: Absorption, distribution, metabolism and excretion in the rat ██████ ██████ ██████ GLP Not published ⇒Previously submitted, data relied upon	Y	Y (but expired)		MCPP- P Task Force	In DAR Addendum July 2002
IIA. 5.1	██████ ██████ ██████	1978	The metabolic fate of ( <sup>14</sup> C)- mecoprop (DL- 2-(4-chloro-2- methylphenoxy) propionic acid) in the rat. ██████ ██████ ██████ GLP: N Published: N	Y	N	-	BAS NUF	DAR (1998)
CA 5.1	Timchalk, C	2004	Comparative inter-species pharmacokin etics of phenoxyaceti c acid herbicides and related organic acids. Evidence that the dog is not a relevant species for evaluation of	N	N	-	Public	Submitted for the purposes of renewal

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
			human health risk Toxicology 200, 1-19 Not GLP Published					
IIA. 5.2	██████████ ██████████ █	1983a	Report on the study of the acute oral toxicity in rats of CMPP (mecoprop) (D- form). ██████████ ██████████ GLP: N Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.2	██████████ ██████████ █	1983b	Report on the study of the acute oral toxicity in rats of CMPP (mecoprop). ██████████ ██████████ GLP: N Published: N	Y	N	-	BAS	DAR (1998)
KCA 5.2.1	██████████	1994a	Mecoprop-P: Acute Oral LD <sub>50</sub> in the rat. ██████████ ██████████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCCP- P Task Force	DAR (1998)
IIA. 5.2	██████████ ████	1990a	Mecoprop-P: acute oral toxicity study in the rat. Life Science Research	Y	N	-	BAS	DAR (1998)

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
			<i>Limited report no: 90/AMS015/05 31 GLP: Y Published: N</i>					
KCA 5.2.1/01	██████	2009	Acute dietary toxicity of MCCP-P in mice ██████ ██████ ██████ ██████ GLP Not published	Y	Y	New data submission	MCCP- P Task Force	Submitted for purposes of renewal
IIA. 5.2	██████ ███ ██████	1983c	<i>Report on the study of the acute dermal toxicity in rats of CMPP (mecoprop).</i> ██████ ██████ GLP: N Published: N	Y	N	-	NUF	DAR (1998)
IIA. 5.2	██████ ███	1990b	<i>Acute percutaneous toxicity study in the rat.</i> ██████ ██████ ██████ ███ ██████ ███ GLP: Y Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.2	██████	1994b	<i>Mecoprop-P, acute dermal LD<sub>50</sub> in the rat.</i> ██████ ██████ ██████ GLP: Y	Y	N	-	BAS	DAR (1998)



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
			<i>Published: N</i>					
KCA 5.2.2	██████████ ██████ ██████████	1984	Report on the study of the acute dermal toxicity in rats of CMPP (Mecoprop) – D-Form ██████████ ██████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCPP- P Task Force	DAR (1998)
IIA. 5.2	██████████ ██████████ ██	1983d	Report on the study of the acute intraperitoneal toxicity in rats of CMPP (mecoprop) (D- form). ██████████ ██████████ GLP: N Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.2	██████████ ██████████ ██	1983e	Report on the study of the acute intraperitoneal toxicity in rats of CMPP (mecoprop). ██████████ ██████████ GLP: N Published: N	Y	N	-	NUF	DAR (1998)
IIA. 5.2	██████████ ██████ ██████████	1977	Acute inhalation toxicity in rats 4 hour exposure to the dust of mecoprop (MCPP) and	Y	N	-	MCPP- P Task Force	DAR (1998)

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
			<i>mecoprop,</i> <i>isomer D.</i> [REDACTED] [REDACTED] [REDACTED] report no. GLP: N Published: N					
KCA 5.2.3	[REDACTED] [REDACTED]	1986a	Report on the Study of the Acute Inhalation Toxicity LC <sub>50</sub> 4 hours (Rat); dust aerosol of Mecoprop (CMPP) – D Form [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCPP- P Task Force	DAR (1998)
IIA. 5.2	[REDACTED] [REDACTED]	1990	Mecoprop-P: Acute inhalation toxicity in the rat. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP: Y Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.2	[REDACTED]	1986b	Report on the	Y	N	-	BAS	DAR (1998)

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
	██████ ██████████ ██████ ██████████ ██████		study of the acute inhalation toxicity $LC_{50}$ 4 hours (rat); dust aerosol study of mecoprop (MCP-P). ██████████ ██████████ GLP: Y Published: N					
KCA 5.2.4	██████████	1994c	Mecoprop-P: Acute Dermal Irritation Test in the Rabbit. ██████████ ██████████ ██████████ ██████████ GLP Not Published ⇒Previously submitted, data relied upon	Y	N		MCP-P Task Force	DAR (1998)
KCA 5.2.4	██████████	1990a	Mecoprop-P: Acute Dermal irritation/Corr osion Test in the Rabbit & amendment ██████████ ██████ ██████████ ██████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCP-P Task Force	DAR (1998)
IIA. 5.2	██████████ ██████████ ██████	1983f	Report on the study of the irritation to the intact and	Y	N	-	BAS	DAR (1998)

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
			<i>abraded dorsal skin of the white rabbit based on Draize.</i> [REDACTED] [REDACTED] GLP: N Published: N					
<i>IIA. 5.2</i>	[REDACTED] [REDACTED] [REDACTED]	1983g	<i>Report on the study of the irritation to the intact and abraded dorsal skin of the white rabbit based on Draize.</i> [REDACTED] [REDACTED] GLP: N Published: N	Y	N	-	NUF	DAR (1998)
<i>KCA 5.2.5</i>	[REDACTED] [REDACTED]	1983h	<i>Report on the study of the irritation to the eye of the white rabbit based on Draize of CMPP (Mecoprop) - D-form</i> [REDACTED] [REDACTED] [REDACTED] [REDACTED] Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCPP- P Task Force	DAR (1998)
<i>KCA 5.2.5</i>	[REDACTED]	(1990b )	<i>Mecoprop-P: Acute Eye irritation/Corr osion Test in the Rabbit &amp;Amendment</i>	Y	N		MCPP- P Task Force	DAR (1998)

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
			<p>██████████ ██████████ ██████████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon</p>					
IIA. 5.2	██████████ ██████████ ██████████	1983i	<p>Report on the study of the irritation to the eye of the white rabbit based on Draize of CMPP (mecoprop). BASF report no: 83/184 GLP: N Published: N</p>	Y	N	-	NUF	DAR (1998)
KCA 5.2.6	██████████ ██████████ ██████████	1985	<p>Report on the maximization test for the sensitizing potential of CMPP (Mecoprop) - D-form in guinea pigs ██████████ ██████████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon</p>	Y	N		MCCP- P Task Force	DAR (1998)
KCA 5.2.6	██████████	1994	<p>Mecoprop-P delayed contact</p>	Y	N		MCCP- P Task Force	DAR (1998)



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
			<i>hypersensitivity study in the guinea pig 94/0517 Pharmaco LSR Ltd, UK GLP Not published ⇒Previously submitted, data relied upon</i>					
KCA 5.2.6	██████ ██████ ██████	1995	<i>Maximisation Test for the sensitising potential of Mecoprop-p in Guinea Pigs ██████████ ███ ██████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon</i>	Y	N		MCCP- P Task Force	DAR Addendum (July 2002)
IIA. 5.2	██████ ███ ██████ ██████	1984	<i>Report on the study on the sensitizing effect of CMPP (mecoprop) in the guinea pig - open epicutaneous test (OET). ██████████ ██████████ GLP: N Published: N</i>	N	N	-	NUF	DAR (1998)
IIA. 5.2	██████ ██████ ███ ██████ ███	1984	<i>Report on the sensitizing effect of CMPP (mecoprop) in the guinea pig maximization</i>	Y	N	-	NUF	DAR (1998)

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
			test. [REDACTED] [REDACTED] GLP: N Published: N					
KCA 5.2.7/01	[REDACTED] [REDACTED]	2014	Mecoprop-P TGAI: Cytotoxicity Assay <i>in vitro</i> with BALB/c 3T3 Cells: Neutral Red (NR) Test during Simultaneous Irradiation with Artificial Sunlight [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP: Y Published: N	Y	Y	New data requirements	Nufarm	Submitted for the purpose of renewal
KCA 5.3.1	[REDACTED] [REDACTED]	1986	Report on the comparative study of the toxicity of the racemate and D-form of Mecoprop in rats after 7- week administration in the diet [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCCP- P Task Force	DAR (1998)
KCA	[REDACTED]	1979	Mecoprop, 3-	Y	N		MCCP-	DAR (1998)

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
5.3.2			month oral toxicity study in the rat (racemate, D- isomer) [REDACTED] [REDACTED] Not GLP Not published ⇒Previously submitted, data relied upon				P Task Force	
IIA. 5.3	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1985	Report on the study of the toxicity of MCPD in rats after 3 months administration in the diet. [REDACTED] [REDACTED] GLP: N Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.3	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1978	Mecoprop supplementary 3-month oral toxicity study in rats. [REDACTED] [REDACTED] [REDACTED] GLP: N Published: N	Y	N	-	BAS	DAR (1998)
IIA. 5.3 IIA 5.8	Moeller, T., Solecki, R	1989	Pathomorpholo gische und hämatologische Untersuchunge n zur Immunotoxici tät der Phenoxyalkans säure mecoprop an Ratten. Zeitschrift für die gesamte Hygiene und ihre	Y	N	-	Public	DAR (1998)

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
			<i>Grenzgebiete 35: 258-260 GLP: N Published: Y</i>					
KCA 5.3.2	██████ ██████	1993	<i>Report on the study of the Oral Toxicity in BG6C3F1 Mice Administration in the diet for 3 months ██████████ █ ██████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon</i>	Y	N		MCPP- P Task Force	DAR (1998)
IIA. 5.3	██████ ██████ ██████████ ██████	1979	<i>Subchronic (13-week) oral toxicity study with mecoprop (MCPP) in beagle dogs. ██████████ ██████ ██████ Published: N</i>	Y	N	-	MCPP- P Task Force	DAR (1998)
KCA 5.3.3	██████ ██████	1993	<i>Twenty-one day dermal toxicity study in the rabbit with MCPP-P acid ██████████ ██████████ ██████ ██████████ GLP Not published ⇒Previously submitted, data relied</i>	Y	N		MCPP- P Task Force	DAR (1998)

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
			upon					
IIA. 5.4	Shirasu, Y., Moriya, M., Kato, K., Furuhashi, A., Kada, T.	1976	Mutagenicity screening of pesticides in the microbial system. Mutation Research 40: 19-30 (1967) GLP: N Published: Y	Y	N	-	Public	DAR (1998)
IIA. 5.4	Shirasu, Y., Moriya, M., Tezuka, H., Teramoto, S., Ohta, T., Inoue, T.	1982	Mutagenicity screening studies on pesticides. Environ. Mutagen. Carcinog. Proc., 3rd Int. conf., 331-335 (1982) GLP: N Published: Y	Y	N	-	Public	DAR (1998)
KCA 5.4.1	██████ ██████	1993	Chinese hamster ovary/HGPRT locus MCPP-P acid ██████ ██████ ██████ ██████ GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCPP- P Task Force	DAR (1998)
KCA 5.4.1	██████ ██████	1990	In vitro assessment of the clastogenic activity of mecoprop-P in cultured human lymphocyte ██████	Y	N		MCPP- P Task Force	DAR (1998)



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
			03 Life Science Research Ltd GLP Not published ⇒Previously submitted, data relied upon					
IIA. 5.4	Zeller, H., Engelhardt, G.	1981	Report on the study of 2-(4-chloro-2-methylphenoxy) propionic acid (MCP) in the Ames test. BASF. No report number. GLP: N Published: N	N	N	-	NUF	DAR (1998)
KCA 5.4.1	██████████ ██████████ ██████████ ██████████	1984	Report on the study of MCP (D-form), Ames test ██████████ ██████████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCP-P Task Force	DAR (1998)
KCA 5.4.1	██████████ ██████████ ██████████ ██████████	1994	Chromosome aberration assay in human lymphocytes in vitro with mecoprop-P acid ██████████ ██████████ ██████████ GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCP-P Task Force	DAR (1998)

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
			<i>submitted, data relied upon</i>					
IIA. 5.4	Carere, A., Ortali, V.A., Cardamone, G., Torracca, A.M., Rasschetti, R.	1978	<i>Microbiological mutagenicity studies of pesticides in vitro. Mutation Research 57: 277-286 (1978) GLP: N Published: Y</i>	N	N	-	Public	DAR (1998)
KCA 5.4.1	Jones, E.J & Christopher, D H	1993	<i>Ames Salmonella typhimurium bacterial reverse mutation assay on MCPP-P acid JEL 53/921060 Huntingdon Research Centre, UK GLP Not published ⇒Previously submitted, data relied upon</i>	N	N	-	MCPP- P Task Force	DAR (1998)
IIA. 5.4	Moriya, M., Ohta, T., Watanabe, K., Miyazawa, T., Kato, K., Shirasu, Y.	1983	<i>Further mutagenicity studies on pesticides in bacterial reversion assay systems. Mutation Research 116: 185-216 (1983) GLP: N Published: Y</i>	N	N	-	Public	DAR (1998)
KCA 5.4.1	██████████	1990	<i>Mecoprop-P: Investigation of mutagenic activity at the</i>	Y	N		MCPP- P Task Force	DAR (1998)

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
			<p><i>HGPRT locus in a Chinese hamster V79 cell mutation system</i></p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>GLP</p> <p>Not published</p> <p>⇒Previously submitted, data relied upon</p>					
KCA 5.4.1	██████████	1990	<p><i>Mecoprop-P: Assessment of mutagenic potential in histidine auxotrophs of Salmonella typhimurium (the Ames test)</i></p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>GLP</p> <p>Not published</p> <p>⇒Previously submitted, data relied upon</p>	Y	N		MCCP-P Task Force	DAR (1998)
IIA. 5.4	██████████ ██████████ ██████████	1993	<p><i>Ames Salmonella typhimurium bacterial reverse mutation assay on MCCP-P acid.</i></p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p> <p>██████████</p>	N	N	-	BAS	DAR (1998)

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
			GLP: Y Published: N					
IIA. 5.4	Mersch-Sundermann, V., Dickgiesser, N., Hablitzel, U., Gruber, B.	1988	Untersuchungen zur Mutagenität organischer Mikrokontaminationen in der Umwelt. I. Mitteilung: Die Mutagenität ausgewählter Herbizide und Insektizide in Salmonella-Mikrosomen-test (Ames test) unter Berücksichtigung der pathogenen Potenz kontaminierter Grund- und Trinkwasser. Zbl. Bakt. Hyg. 186: 247-260 (1988) BASF doc no: 88/10541	N	N	-	BAS NUF	DAR (1998)
IIA. 5.4	Mersch-Sundermann, V., Hofmeister, A., Müller, G., Hof, H.	1989	Untersuchungen zur Mutagenität organischer Mikrokontaminationen in der Umwelt. III. Mitteilung: Die Mutagenität ausgewählter Herbizide und Insektizide im SOS-Chromotest. Zbl. Hyg. 189: 135-146 (1989) BASF doc no: 89/10805	N	N	-	BAS NUF	DAR (1998)

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
IIA. 5.4	Andersen, K.J., Leighty, E.G., Takahashi, M.T.	1972	Evaluation of herbicides for possible mutagenic properties. J. Agr. Food Chem. 20: 649- 656 (1972) GLP: N Published: Y	N	-	-	Public	DAR (1998)
IIA. 5.4	Bignami, M., Aulicino, F., Velcich, A., Carere, A., Morpurgo, G.	1977	Mutagenic and recombinogeni c action of pesticides in Aspergillus nidulans. Mutation Research 46: 395-402 (1977) GLP: N Published: Y	N	N	-	Public	DAR (1998)
IIA. 5.4	Morpurgo, G., Bellincamp i, D., Gualandi, G., Baldinelli, L., Crescenzi, O.S.	1979	Analysis of nondisjunction with Aspergillus nidulans. Environmental Health Perspectives 31: 81-95 (1979) GLP: N Published: Y	N	N	-	Public	DAR (1998)
KCA 5.4.2	██████ ██████	1991	Mecoprop-P: Assessment of clastogenic action on bone marrow erythrocytes in the micronucleus test ██████████ ██████ ██████████ ██████████ GLP Not published ⇒Previously	Y	N		MCCP- P Task Force	DAR (1998)



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
			<i>submitted, data relied upon</i>					
KCA 5.4.2	██████████ ██████████ ██████████ ██████████	1985a	Report on the cytogenetic investigations in Chinese hamsters after a single oral administration of MCPP; D- form - bone marrow chromosome analysis ██████████ ██████████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCPP- P Task Force	DAR (1998)
IIA. 5.4	██████████ ██████████ ██████████ ██████████	1985b	Cytogenetic investigations in Chinese hamsters after oral administration of MCPP. Bone marrow chromosome analysis. ██████████ ██████████ ██████████ GLP: N Published: N	Y	N	-	NUF	DAR (1998)
IIA 5.4	██████████ ██████████ ██████████ ██████████	1985c	Cytogenetic investigations in Chinese hamsters after a single oral administration of MCPP. Sister	Y	N	-	NUF	DAR (1998)

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
			<i>chormatid exchange.</i> [REDACTED] [REDACTED] GLP: N Published: N					
KCA 5.5.1/01	[REDACTED] [REDACTED]	2008	Dietary two year carcinogenicity study in the rat [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Not published	Y	Y	New data submission	Nufarm	Submitted for the purposes of renewal
IIA. 5.5	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1988	<i>Study on the chronic toxicity and oncogenic potential of MCP P in rats. Administration in the diet over 24 months.</i> [REDACTED] [REDACTED] GLP: Y Published: N	Y	N	-	BAS NUF	DAR (1998)
KCA 5.5.1/02	[REDACTED] [REDACTED]	2007	Ex-vivo enzyme analysis of liver samples taken at termination of a dietary 2 year carcinogenicity study of Mecoprop-P in the rat [REDACTED] [REDACTED] [REDACTED] [REDACTED]	Y	Y	New data submission	MCP P- Task Force	Submitted for the purposes of renewal

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
			██████████ ██████████ ██████████ ██████████ GLP Not published					
KCA 5.5.2	██████████ ██████████	1996	Mecoprop-P - Carcinogenicit y study in B6C3F1/Cr1BR mice. Administration in the diet for 18 months ██████████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCCP- P Task Force	DAR (1998)
KCA 5.5.2	██████████ ██████████	1999	Mecoprop-P - Carcinogenicit y study in B6C3F1/Cr1BR mice. Administration in the diet for 18 months, (supplementary study to ██████████ ██████████ ██████████ ██████████ Not GLP Not published ⇒Previously submitted, data relied upon	Y	N		MCCP- P Task Force	DAR Addendum II (July 2002)
KCA	██████████	1997	Mecoprop-p - Chronic Oral	Y	N		MCCP- P Task	DAR Addendum II

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
5.5.3	██████		<p><i>Toxicity Study in Beagle Dogs Administration in the Diet for 12 months</i></p> <p>██████████ ██████ ██████████ ██████████</p> <p><i>Not GLP Not published ⇒Previously submitted, data relied upon</i></p>				<i>Force</i>	<i>(July 2002)</i>
IIA. 5.6	██████ ██████	1980a	<p><i>Mecoprop oral teratogenicity study in the rat.</i></p> <p>██████████ ██████████ ██████████ ██████████ ██████</p> <p><i>GLP: N Published: N</i></p>	<i>Y</i>	<i>N</i>	-	<i>BAS NUF</i>	<i>DAR (1998)</i>
KCA 5.6.1	██████████ ██████	1992	<p><i>Reproduction study with MCP P in rats. Continuous dietary administration over 2 generations (2 litters in the first and 1 litter in the second generation)</i></p> <p>██████████ █ ██████ ██████████ ██████████</p> <p><i>Not GLP Not published ⇒Previously submitted data</i></p>	<i>Y</i>	<i>N</i>		<i>MCP P- P Task Force</i>	<i>DAR (1998)</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
KCA 5.6.1/01	██████ ██████	2003	Mecoprop-P: oral (dietary administration) preliminary reproduction toxicity study in the rat ██████████ ██████████ ██████████ ██████████ GLP Not published	Y	N		Nufarm	Submitted for the purposes of renewal
KCA 5.6.2	██████████ ██████ ██████████ ██████	1993a	<i>Study of the prenatal toxicity of Mecoprop-P in rats after oral administration (gavage)</i> ██████████ ██████ ██████ ██████████ ██████████ <i>Not GLP Not published ⇒Previously submitted, data relied upon</i>	Y	N		MCCP- P Task Force	DAR (1998)
KCA 5.6.2	██████████ ██████ ██████████ ██████	1993b	<i>Study of the prenatal toxicity of Mecoprop-P in rabbits after oral administration (gavage)</i> ██████████ ██████ ██████ ██████████ ██████████ <i>GLP Not published ⇒Previously</i>	Y	N		MCCP- P Task Force	DAR (1998)



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
			<i>submitted, data relied upon</i>					
<i>IIA. 5.6</i>	■■■■ ■■■■	<i>1980b</i>	<i>Mecoprop oral teratogenicity study in the Dutch belted rabbit. ■■■■ ■■■■■■ ■■■■■■■■ ■■■■■■■■ NUF GLP: N Published: N</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>NUF</i>	<i>DAR (1998)</i>
<i>IIA. 5.6</i>	<i>Khera, K.S.</i>	<i>1984</i>	<i>Maternal toxicity - A possible factor in fetal malformations in mice. Teratology 29: 411-416 (1984) GLP: N Published: Y</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>
<i>IIA. 5.6</i>	<i>Selier, J.P.</i>	<i>1979</i>	<i>Phenoxyacids as inhibitors of testicular DNA synthesis in male mice. Bull Environm Contam Toxicol 21: 89-92 GLP: N Published: Y</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>
<i>IIA. 5.6</i>	<i>Khera, K.S.</i>	<i>1985</i>	<i>Maternal toxicity: A possible etiologial factor in embryo-fetal deaths and fetal malformations of rodent-rabbit species. Teratology 31: 120-153 (1985)</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</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
			GLP: N Published: Y					
KCA 5.6.2	Roll R & Matthiasch k G	1983	Vergleichende Untersuchunge n zur Embryotoxizitä t von 2-Methyl- 4- chlorphenoxyes sigsäure, Mecoprop und Dichlorprop bei NMRI- Mäusen. Published in: Arzneim Forsch, 33, 1479-1483 Not GLP Published ⇒Previously submitted data	Y	N		Public	DAR (1998)
IIA. 5.6	Buschmann , J., Clausing, P., Solecki, E., Fischer, B., Peetz, U.	1986	Comparative prenatal toxicity of phenoxyacanic herbicides. Teratology 33: 11A-12A (1986) GLP: N Published: Y	Y?	-	-	Public	DAR (1998)
KCA 5.7.1/01	██████████ ██████	1995	Mecoprop-P: acute oral neurotoxicity study in Wistar rats ██████████ █ ██████ ██████████ ██████████ GLP Not published	Y	Y	Study not previously submitted in EU, conducted for US registration applications	MCPP- P Task Force	Submitted for the purposes of renewal
CA 5.8.1	Original	1980	Report on the	Y	N		Nufarm	Submitted

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
	report by [REDACTED] [REDACTED] [REDACTED] [REDACTED] (1980)		study of the acute oral toxicity of Mecoprop- hydroxy- metabolite (M7/173) in the rat [REDACTED] [REDACTED] [REDACTED] [REDACTED] Not GLP; Not published.					for the purposes of renewal
IIA. 5.8	Moeller, T.	1990	<i>Funktionelle Testung der Immuntoxizität der Phenoxyalkans äure Mecoprop an Ratten und Ausschaltung immuntoxischer Effekte durch Adrenalektomie . Zeitschrift für die gesamte Hygiene und ihre Grenzgebiete 36: 314-316 (1990) GLP: N Published: Y</i>	Y	N	-	Public	DAR (1998)
IIA. 5.8	Elo, H.A., Luoma, T., Ylitalo, P.	1991	<i>Inhibition of human and rabbit platelet aggregation by chlorophenoxy acid herbicides. Archives of Toxicology 65: 140-144 (1991). GLP: N Published: Y</i>	Y	N	-	Public	DAR (1998)

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
IIA. 5.8	Moody, D.E., Narloch, B.A., Shull, L.R., Hammock, B.D.	1991	<i>The effect of structurally divergent herbicides on mouse liver xenobiotic-metabolizing enzymes (P-450-dependent mono-oxygenases, epoxide hydrolases and glutathione S-transferases) and carnitine acetyltransferase. Toxicology Letters 59: 175-185 (1991). GLP: N Published: Y</i>	Y	N	-	Public	DAR (1998)
KCA 5.8.3/01	CRD	2013	Extended impact assessment study of the human health and environmental criteria for endocrine disrupting substances proposed by HSE, CRD WRc Ref: Defra9088 Not GLP Published	N	N		Public	-
CA 5.9.1/01	White S	2014	Mecoprop-P Manufacturing Medical Surveillance Report Wyke_2014_051	N	N	New data	Nufarm	Submitted for the purposes of renewal

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
			GLP: Not relevant Published: N					
IIA. 5.9	Becher, H., Wahrendorf, J., Angerer, R.	1992	<i>A cohort study on persons exposed to phenoxy acid herbicides and their contaminants in Germany - design and first results. Chemosphere 25: 1007-1014 (1992). GLP: N Published: Y</i>	N	N	-	Public	DAR (1998)
IIA. 5.9	Bond, G.G., Rossbacher, R.	1993	<i>A review of potential human carcinogenicity of the chlorophenoxy herbicides MCPA, MCPP, and 2,4-D. British Journal of Industrial Medicine 50: 340-348 (1993) GLP: N Published: Y</i>	N	N	-	Public	DAR (1998)
IIA. 5.9	Flanagan, R.J., Meredith, T.H., Ruprah, M., Onyon, L.J., Liddle, A.	1990	<i>Alkaline diuresis for acute poisoning with chlorophenoxy herbicides and ioxynil. Lancet 335: 454-458 (1990) GLP: N Published: Y</i>	Y	N	-	Public	DAR (1998)
IIA. 5.9	Prescott, L.F., Park, J., Darrien, I.	1979	<i>Treatment of severe 2,4-D and mecoprop intoxication</i>	Y	N	-	Public	DAR (1998)



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
			<i>with alkaline diuresis. British Journal of Clinical Pharmacology 7: 111-116 (1979). GLP: N Published: Y</i>					
<i>IIA. 5.9</i>	<i>Meulenbelt, J., Zwaveling, J.H., van Zoonen, P., Notermans, N.C.</i>	<i>1988</i>	<i>Acute MCPD intoxication: report of two cases. Human Toxicology 7: 289-292 Not GLP Published</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>
<i>IIA. 5.9</i>	<i>Wiklund, K., Dich, J., Holm, J.-E.</i>	<i>1987</i>	<i>Risk of malignant lymphoma in Swedish pesticide applicators. British Journal of Cancer 56: 505-508 (1987) GLP: N Published: Y</i>	<i>Y</i>	<i>N</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>



## Product: Mecoprop-P K 600 g/L

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 7.1.1/01	██████ ██████	1994a	Study on the acute oral toxicity of BAS 037 32 H in Rats ██████████ █ ██████ ██████████ ██████████ GLP Not published	Y	N		Nufarm	DAR (1998)
IIIA. 7.1	██████ ██████	1985a	Report on the study of the acute oral toxicity on the rat based on OECD of Duplosan ██████████ ██████████ ██████████ ██████████ GLP: N Published: N	Y	-	-	NUF	DAR (1998)
IIIA. 7.1	██████	1993	Acute oral toxicity study with CL-23608-5 in rats. ██████████ ██████████ ██████████ ██████████ ██████ GLP: N Published: N	Y	-	-	NUF	DAR (1998)
KCP 7.1.1/02	██████	2009	Acute Dietary Toxicity of MCPP-P in Mice ██████ ██████ GLP Not published	Y	Y	Newly submitted data	Nufarm	Submitted for the purposes of renewal
KCP 7.1.2/01	██████ ██████	1994b	Study on the acute dermal toxicity of BAS 037 32 H in	Y	N		Nufarm	DAR (1998)

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
			<i>Rats</i> [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] <i>GLP</i> <i>Not published</i>					
IIIA. 7.1	[REDACTED] [REDACTED]	1985b	<i>Report on the study of the acute dermal toxicity on the rat based on OECD of Duplosan KV/BAS</i> [REDACTED] [REDACTED] [REDACTED] <i>NUF</i> <i>GLP: N</i> <i>Published: N</i>	Y	-	-	BAS	DAR (1998)
KCP 7.1.2/02	[REDACTED] [REDACTED]	2006	Mecoprop-p K 600 Optica Acute Dermal Toxicity Limit Test in the Rat [REDACTED] [REDACTED] [REDACTED] <i>GLP</i> <i>Not published</i>	Y	Y  (Used in UK national assessment – data protection expires 27/01/19)	Newly submitted data	Nufarm	Submitted for the purposes of renewal
KCP 7.1.3/01	[REDACTED] [REDACTED] [REDACTED]	1994	<i>Study on the acute inhalation toxicity LC<sub>50</sub> of BAS 037 32 H as a liquid aerosol in rats 4 hour exposure</i> [REDACTED] [REDACTED] [REDACTED] [REDACTED] <i>GLP</i> <i>Not published</i>	Y	N  (However used in UK national assessment – data protection expires 27/01/19)		Nufarm	DAR (1998)
IIIA. 7.1	[REDACTED]	1985	Report on the	Y	-	-	BAS	DAR (1998)

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
	[REDACTED]		study of the acute inhalation toxicity LC <sub>50</sub> 4 hours (rat)/ liquid aerosol study of Duplosan KV [REDACTED] [REDACTED] GLP: N Published: N					
III.A. 7.1	[REDACTED]	1984a	Report on the study of the acute dermal irritation/ corrosivity to the intact dorsal skin of the white rabbit based on [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP: Y Published: N	Y	N	-	BAS	DAR (1998)
KCP 7.1.4/01	[REDACTED]	1994a	Study on the acute dermal irritation/corrosi on of BAS 037 32 H in the Rabbit [REDACTED] [REDACTED] [REDACTED] GLP Not published	Y	N		Nufarm	DAR (1998)
III.A. 7.1	[REDACTED]	1983	Report on the study of the irritation to the eye of the white rabbit based on Draize of U 46 KV-fluid (BAS 037 14 H) dated Dec. 28, 1983. [REDACTED]	Y	N	-	NUF	DAR (1998)

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
			GLP: N Published: N					
III.A. 7.1		1984b	Report on the study of the acute irritation to the eye of the white rabbit based on GLP: Y Published: N	Y	N	-	BAS	DAR (1998)
III.A. 7.1		1984c	Report on the study of the irritation to the eye of the white rabbit based on Draize of an 1.6% aqueous solution of U 46 KV-fluid (DMA-salt of CMPP) dated July 24, 1984. GLP: N Published: N	Y	-	-	NUF	DAR (1998)
KCP 7.1.5/01		1994b	Study on the acute eye irritation of BAS 037 32 H in the Rabbit GLP Not published	Y	N		Nufarm	DAR (1998)
KCP 7.1.5/02		1990	Irritant Effects on Rabbit Eye of Mecoprop-p K Salt 600 g/l	Y	-  (Used in UK national assessment – data protection)		Nufarm	This study was previously evaluated by the UK for the product Optica (HSE ref M09963 COP 2006/01151).

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
			GLP Not published		expires 27/01/19)			RMS has not re-evaluated this study as the study was not submitted by the applicant.
KCP 7.1.5/03		1986	R+ CMPP/K 600 g/l: Acute Eye Irritation/ Corrosion Test in the Rabbit GLP Not published	Y	N		Nufarm	
KCP 7.1.6/01		1995	Skin Sensitisation Test in Guinea- Pigs Modified Buehler Test: 9 applications GLP Not published	Y	N  (However used in UK national assessment – data protection expires 27/01/19)		Nufarm	DAR (1998)
KCP 7.1.6/02		1998	Optica: Skin Sensitisation Study after Magnusson and Kligman and amendment GLP Not published	Y	N  (However used in UK national assessment – data protection expires 27/01/19)		Nufarm	This study was previously submitted and evaluated by the UK for the product Optica (HSE ref M09963 COP 2006/01151).
KCP 7.2/01	Bass, R V	1999	The Chemical and Physical Properties of Optica CMPP-p K salt solution at 600 g l <sup>-1</sup> CMPP- p acid concentration AHM 99/0084 A H Marks, UK	N	-  (However used in UK national assessment – data protection expires		Nufarm	This study was previously submitted and evaluated by the UK for the product Optica (HSE ref M09963 COP 2006/01151).



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
			GLP Not published ⇒ CP 2.5.2		27/01/19)			
KCP 7.3/01		2006	Mecoprop-p: In vitro Absorption from a Formulation through Human Epidermis GLP Not published	Y	Y  (However used in UK national assessment – data protection expires 27/01/19)	Newly submitted data	Nufarm	Submitted for the purposes of renewal
KCP 7.3/02	Simmons, K	2014	Position Paper: Determination of the dermal absorption of Mecoprop-P Wyke_2014_039 Nufarm UK Ltd Not GLP Not published	N	N	N/A	Nufarm	Submitted for the purposes of renewal



## A.7. RESIDUE DATA

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
IIA 6.1 IIIA 8.1  (CA 6.1 & CA 6.2.1)	Cooper JLD, Jones MK, Lowdon P, Parsons R	1998	<sup>14</sup> C-mecoprop- P: Wheat Metabolism Study RPAL Study P93/169, Task Force, GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA 6.1 IIIA 8.1	Keller W, Otto S	1979	Duplosan KV (BAS 03729 H); Investiga- tion into the metabolism of mecoprop in winter wheat Report BASF 1611b Task Force, Reg.Doc. # BASF 79/0150 GLP: N Published: N	N	-	-	BAS NUF	DAR (1998)
IIA 6.3 IIIA 8.1 (CA 6.1)	Perny, A.	2002	Storage Stability of Mecoprop-P Residues in Cereals Final Report No. A0128, 2002 AHMARKS Study No. AHMR 00141 ANADIAG, 67500 Haguenau France GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)
KCA 6.1/01	██████	2013	Mecoprop-P livestock feeding study: magnitude of	Y	Y	New data submitted	Nufarm	Submitted for the purposes of renewal

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
			residue in milk, muscle, liver, kidney and fat of lactating dairy cattle ██████████ ██████████ GLP Not published					
KCA 6.1/02	██████████	2014	Frozen Storage Stability Study for Mecoprop- P, HMCPP, CCPP and PCOC in Bovine Specimens ██████████ ██████████ GLP Not published	Y	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCA 6.1/03	Anding, C	2001	Stability study of Mecoprop-P in soft winter wheat (grain, straw and green plant) after a nineteen months storage in a congelator at a temperature under minus 18°C AVE/00-033 Defitraces GLP Not published	N	Y	Submitted to UK CRD for COP2011/003 79?	Nufarm	
(IIA 6.2 IIIA 8.1)	██████████	1997	<sup>14</sup> C-Mecoprop- P: Absorption, distribution, metabolism and excretion in the rat ██████████ ██████████	Y	Y (but expired)	-	BAS	DAR (1998)

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
			<i>Ltd, Report No.</i>     <i>GLP: Y</i> <i>Published: N</i>					
IIA 6.2 IIIA 8.1	Clark Donald et al	1975	<i>Residues of Chlorophenoxy Acid Herbicides and Their Phenolic Metabolites in Tissues of Sheep and Cattle J. Agric. and Food Chem. 23, 573-78, 1975 Published literature</i>	Y	N	-	Public	DAR (1998)
IIA 6.2 IIIA 8.1	Erne K	1966	<i>Distribution and elimination of chlorinated phenoxy acids in animals Acta vet. scand. 7, 240-256, 1966 Published literature</i>	Y	N	-	Public	DAR (1998)
IIA 6.2 IIIA 8.1  (CA 6.1 & CA 6.2.3)	   	2001	<i>The Distribution and Metabolism 14C- Mecoprop-P in the Lactating Goat.</i>      <i>MCCP-P (1988) Task Force, c/o</i>	Y	Y (but expired?)	-	BAS	DAR Addendum II (July 2002)

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
			<i>BASF, Limburgerhof, Germany. BASF DocID 2001/1017222. GLP: Y Published: N</i>					
IIA 6.2	██████ ██████ ██████	2004	The distribution and metabolism of [ <sup>14</sup> C]-CCPA in the lactating goat  ██████ ██████ No. 204941 GLP: Y Published: N	Y	-		Nufarm	Not previously evaluated. Will be fully evaluated at renewal of MCPA. This is a brief evaluation to determine if it is fit for purpose to act as supporting information.
IIA 6.2 IIIA 8.1	Leng ML	1972	<i>Residues in milk and meat and safety to livestock from the use of phenoxy herbicides in pastures and range land Down to Earth, 28 (1), 12-20, 1972 Published literature GLP: N Published: Y</i>	?	N	-	Public	DAR (1998)
IIA 6.2 IIIA 8.1	Loos M (Kearney and Kaufman)	1972	<i>Herbicides: Chemistry, degradation and mode of action Reg.Doc. # BASF 72/10123 Published literature</i>	N	-	-	BAS NUF	DAR (1998)

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
			GLP: N Published: Y					
IIA 6.2 IIIA 8.1	Regenstein H	1992	Stellungnahme : Zusammenfasse nde Darstellung und Bewertung von Tierfüt terungsstudien mit den Wuchs stoffen 2,4-D, MCPA, mecoprop, und dichlorprop-P APS/RP - Li 556 Task Force, Reg.Doc. # BASF 92/10665 GLP: N Published: N	N	-	-	BAS	DAR (1998)
KCA 6.2.5	██████ ██████	1986	Accumulation and elimination of <sup>14</sup> C-MCPP by Bluegill sunfish in a dynamic flow through system ██████ ██████ ██████████ ██████████ GLP Not published ⇒Previously submitted	Y	N		Nufarm	DAR (1998)
IIA 6.3 IIIA 8.2	Anonymou s		Different years Supervised trials in barley with mecoprop-P SCC project 116-013 6(1) Report No 037	N	-	-	BAS	DAR (1998)



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
			29 H: 84/23 E, 1985 84/22 E, 1985 84/21 E, 1985 84/20 E, 1985 85/02 E, 1985 85/01 E, 1985 84/01 E, 1984 89/04 E, 1990 89/03 E, 1990 84/15 E, 1985 84/14 E, 1985 84/13 E, 1985 84/12 E, 1985 84/11 E, 1985 84/10 E, 1985 84/09 E, 1985 84/08 E, 1985 84/07 E, 1985 84/06 E, 1985 84/05 E, 1985 GLP: N Published: N					
IIA 6.3 IIIA 8.2	Anonymous	1986	Supervised trials in oats with meco- prop-P SCC project 116-013 6(1) Report No 037 29 H: 85/18 E 85/17 E Task Force, Reg. Doc. # BASF 94/1- 1720 GLP: N Published: N	N	-	-	BAS	DAR (1998)
IIA 6.3 IIIA 8.2	Laurent M, Chabarsol Y	1979	Supervised trials in oats with mecoprop- P	N	-	-	BAS	DAR (1998)



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
			<i>Scientific Consulting Company Report No AGR: RP/RD/CNG- An No 3728 RP/RD/CNG- An No 3759 Task Force, Reg. Doc. # BASF 95/10139. GLP: N Published: N</i>					
<i>IIA 6.3 IIIA 8.2</i>	<i>Anonymou s</i>	<i>1986</i>	<i>Supervised trials in rye with meco- prop-P SCC project 116-013 6(1) Report No 037 29 H: 85/16 E 85/15 E Task Force, Reg. Doc. # BASF 94/1- 1720 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIA 6.3 IIIA 8.2</i>	<i>Muller RM</i>		<i>Different years Supervised trials in rye grass with mecoprop-P Scientific Consulting Company No. 94 15243: 3 trials on different plaes, 1994 No. 9317301: 3 trials on different places, 1993</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</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
			No. 92 16045: 4 trials on different places, 1992 No. 9216011: 4 trials on different places, 1992 Task Force, Reg. Doc. # BASF 95/10139. GLP: N Published: N					
IIA 6.3 IIIA 8.2	Anonymous		Different years Supervised trials in wheat with mecoprop- P SCC project 116-013 6(1) Report No 037 29 H: 84/19 E, 1985 84/19 E, 1985 84/17 E, 1985 84/16 E, 1985 84/03 E, 1984 84/02 E, 1984 85/14 E, 1986 85/13 E, 1986 85/12 E, 1986 85/11 E, 1986 85/06 E, 1986 85/05 E, 1986 85/04 E, 1986 85/03 E, 1986 89/02 E, 1990 89/01 E, 1990 Task Force, Reg. Doc. # BASF 94/11720 GLP: N Published: N	N	-	-	BAS	DAR (1998)
IIA 6.3 IIIA 8.2	Anonymous	1988	Supervised trials in barley with mecoprop-P	N	-	-	BAS	DAR (1998)

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
			<i>SCC project 116-013-6 (3) Kenn-No. 03950-00-00 Trial: Germany, Bayern Trial: Germany, Bayern Task Force, Reg. Doc. # BASF 94/11719 GLP: N Published: N</i>					
IIA 6.3 IIIA 8.2	Anonymous	1988	<i>Supervised trials in rye with meco- prop-P SCC project 116-013-6 (3) Kenn-No. 03950-00-00 Trial: Nordrhein, Westfalen Trial: Nordrhein, Westfalen Trial: Nordrhein, Westfalen Task Force, Reg. Doc. # BASF 94/11719 GLP: N Published: N</i>	N	-	-	BAS	DAR (1998)
IIA 6.3 IIIA 8.2	Anonymous	1988	<i>Supervised trials in wheat with mecoprop- P SCC project 116-013-6 (3) Kenn-No.</i>	N	-	-	BAS	DAR (1998)

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
			03950-00-00 Trial: Herford- Elverdissen Trial: Niedersachsen Trial: Rheinland- Pfalz Trial: Rheinland- Pfalz Task Force, Reg. Doc. # BASF 94/11719 GLP: N Published: N					
IIA 6.3 IIIA 8.2	Anonymous	1995	Rhone-Poulenc Agrochimie GmbH, AGR 44080 H, AGR 44040 H, ROP 34580 H, ROP 34590 H, EXP 30007, EXP 04415 Residue data summary from supervised tri- als-mecoprop- P Scientific Consulting Company Task Force, Reg. Doc. # BASF 95/10139. GLP: N Published: N	N	-	-	BAS	DAR (1998)
IIA 6.3 IIIA 8.2	Anonymous	1987	Supervised trials in barley with mecoprop- P Scientific Consulting Company Report No: AGR 03642	N	-	-	BAS	DAR (1998)

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
			AGR 03646 Task Force, Reg. Doc. # BASF 95/10139. GLP: N Published: N					
IIA 6.3 IIIA 8.2	Anonymous	1987	Supervised trials in wheat with mecoprop- P Scientific Consulting Company Report No AGR: D.Ag.1157, Rheinland Pfalz D.Ag.1157, Niedersachsen D.Ag.1157, Bayern AGRO 3648, Schleswig- Holstein Task Force, Reg. Doc. # BASF 95/10139. GLP: N Published: N	N	-	-	BAS	DAR (1998)
IIA 6.3 IIIA 8.2	Bleif J	1994	Duplosan KV (BAS 037 29 H); Residue data summary from supervised trials- mecoprop-P Scientific Consulting Company, SCC project 116-013 6(1) Task Force, Reg. Doc. # BASF 94/11720 GLP: N	N	-	-	BAS	DAR (1998)

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
			<i>Published: N</i>					
IIA 6.3 IIIA 8.2	<i>Bleif J</i>		<i>Marks Optica MP (AHM 20881-H-O- SL); Residue data summary from supervised trials- mecoprop-P Scientific Consulting Company, SCC project 116- 013-6 (3) Task Force, Reg. Doc. # BASF 94/11719. GLP: N Published: N</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</i>
IIA 6.3 IIIA 8.2	<i>Pfarl C</i>	1994	<i>Residues of 2,4- D and MCPP in cereals and grass treated with 4.0l Dicopur U 46 KV neu/ha Agrolinz Report No 1204 Nufarm UK Limited GLP: Y Published: N</i>	<i>N</i>	-	-	<i>NUF</i>	<i>DAR (1998)</i>
KCA 6.3.1/01 6.3.1/01A	Old, J & Duncan, P Doig, A.	2001  2011 (amen- dment )	Residue decline of Mecoprop-P potassium salt in cereals in Southern Europe. Report and amendment 1 19513/ 397315 (AHM R 00 115) Charles River (previously	N	Y (for amend- ment)	New data submitted	Nufarm	Submitted for the purposes of renewal



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
			<i>Inveresk Research</i> ) UK GLP Not published					
KCA 6.3.1/02	Perny, A.	2002a	Residue decline of Mecoprop-P potassium salt in cereals in Southern Europe R A0119 (AHM R 00 126) Anadiag GLP Not published	N	N	N/A	Nufarm	Submitted for the purposes of renewal
KCA 6.3.1/03	Wardman, J.P.	2002a	Optica residue decline of Mecoprop-P in cereals in Southern Europe 20472/ 680333 (AHM R 01 115F) Inveresk Research GLP Not published	N	N	N/A	Nufarm	Submitted for the purposes of renewal
KCA 6.3.1/04	Gallais, C.	2002a	Residue decline of Mecoprop-P potassium salt in cereals in Southern Europe R A1135 (AHM R 01 115A) Anadiag GLP Not published	N	N	N/A	Nufarm	Submitted for the purposes of renewal
KCA 6.3.1/05	Tandy, R.	2014a	Determination of residues of	N	Y	New data submitted	Nufarm	Submitted for the

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
			Mecoprop-P after a single application of Mecoprop-p K 600 in cereals at 4 sites in Northern Europe 2013 S13-00323 Eurofins Agroscience Services GLP Not published					purposes of renewal
KCA 6.3.2/01	Beck, J.; Fegert, A.; Mackenrot h, Ch.	1997a	Study on the residue behaviour of Mecoprop-P in grass after two treatments with Duplosan® (BAS 037 32 H) under field conditions in Great Britain, 1996 UK/HR/01/96 (97/11287) BASF Aktiengesellsc haft GLP Not published	N	N		Nufarm	Submitted for the purposes of renewal
KCA 6.3.2/02	Beck, J.; Fegert, A.; Mackenrot h, Ch.	1997b	Study on the residue behaviour of Mecoprop-P in grass after treatment with Duplosan® (BAS 037 32 H) under field conditions in Great Britain, 1997 UK/HR/01/97 (97/11289)	N	N		Nufarm	Submitted for the purposes of renewal

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
			BASF Aktiengesellsc haft GLP Not published					
KCA 6.3.2/03	Wilson, A.	2008	Mecoprop-P residue study (at harvest and decline) with Duplosan KV (600 g/L Mecoprop-P) applied to grassland in Germany and United Kingdom, 2007 ACI07-005 Agrochemex International Ltd GLP Not published	N	N		Nufarm	Submitted for the purposes of renewal
KCA 6.3.2/04	Couldridge , C.	2010	Determination of Mecoprop-P residues in grassland following a single application of CMPP-P K 600 g/l AI in the United Kingdom in 2009 935-09-AHM- GRA Oxford Agricultural Trials Limited GLP Not published	N	N		Nufarm	Submitted for the purposes of renewal
KCA 6.3.2/05	Martin, J.	2011	Determination of residues of Mecoprop-P after one	N	N		Nufarm	Submitted for the purposes of renewal

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
			application of Mecoprop-P K 600 in grassland at 4 sites in the UK 2010 S10-02012 Eurofins Agroscience Services Ltd GLP Not published					
KCA 6.3.2/06	Old, J.; Duncan, P.; Livingston e, K.	2001	Mecoprop-P potassium salt (Optica, Q121A®) Residue decline in grassland in Southern Europe: field phase 19515/ 397357 (AHM R 00 214) Charles River GLP Not published	N	N		Nufarm	Submitted for the purposes of renewal
KCA 6.3.2/07	Perny, A.	2002b	<i>Residue decline of Mecoprop-P potassium salt in grassland in Southern Europe R A0123 (AHM R 00 225) Anadiag GLP Not published</i>	N	N		Nufarm	<i>DAR Addendum IV (Feb 2003)</i>
KCA 6.3.2/08	Wardman, J.P.	2002b	Optica residue decline of Mecoprop-P in grassland in Southern Europe	N	N		Nufarm	Submitted for the purposes of renewal

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
			20511 / 680354 (AHM R 01 214F) Inveresk Research GLP Not published					
KCA 6.3.2/09	Gallais, C.	2002b	<i>Residue decline of Mecoprop-P potassium salt in grassland in Southern Europe R A1136 (AHM R 01 214A) Anadiag GLP Not published</i>	N	N		Nufarm	DAR Addendum IV (Feb 2003)
KCA 6.3.2/10	Tandy, R.	2014b	Determination of residues of Mecoprop-P after a single application of Mecoprop-P K 600 in grassland (outdoor) at 4 sites in Southern Europe S13-00322 Eurofins Agroscience Services GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCA 6.4.2/01	██████	2013	Mecoprop-P livestock feeding study: magnitude of residue in milk, muscle, liver, kidney and fat of lactating dairy cattle	Y	Y	New data submitted	Nufarm	Submitted for the purposes of renewal

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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
			<div>██████████</div> <div>██████████</div> GLP Not published ⇒ CA 6.1/01					



**Product: mecoprop-P K 600 g/L**

No studies are submitted on the PPP.

## A.8. ENVIRONMENTAL FATE AND BEHAVIOUR

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
KCA 7.1.1.1	Schocken, M J	1997	MCP-P Aerobic Soil Metabolism Springborn Laboratories Inc, USA 13565.0495.61 02.760 GLP Not published ⇒ previously submitted	N	N		MCP-P Task Force	In Addendum 1 to DAR (May 2000)
IIA.7.1.1. 1.1	Pistel F,	1995	Further calculations on degradation rates for Reg. Doc. #BASF 88/0621 (Aerobic and aerobic/anaero bic soil metabolism of <sup>14</sup> C-mecoprop). SCC GmbH, Biebelshheim, Germany, Jan. 13, 1995 Task Force KII 7.2: Reg. Doc. No. BASF 95/10029 Task Force KIII 9.2: Reg. Doc.No. BASF 95/10029 GLP: N Published: N	N	Y (but expired)	-	BAS	DAR (1998)
IIA.7.1.1. 1.1 IIA.7.1.1. 1.2 IIA.7.1.1. 2.1	Saxena AM,	1988	Aerobic and aerobic/anaero bic soil metabolism of <sup>14</sup> C-mecoprop. Hazleton Lab. USA: HLA 6015-314. May	N	-	-	BAS NUF	DAR (1998)

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
			4, 1988 Nufarm Task Force KII: 7.1.1.1.1/01 Task Force KII 7.1: Reg. Doc. No. BASF 88/0621 Task Force KIII 9.1: Reg. Doc. No. BASF 88/0621 GLP: Y Published: N					
IIA.7.1.1. 1.3	Obrist JJ	1989	Amendment to final report submitted on April 20, 1987. Photodegradati on of mecoprop on soil (HLA study No. 6015- 323). March 27, 1989 . Nufarm Task Force KII: 7.1.1.1.3/01 Task Force KII 7.5: Reg. Doc. No. BASF 89/10319 GLP: Y Published: N	N	-	-	NUF BAS	DAR (1998)
IIA.7.1.1. 1.3	Obrist JJ,	1986 (d)	Photodegradati on of mecoprop on soil. Hazleton Lab. Wisconsin, Study No 6015- 323. Nufarm Task Force KII: 7.1.1.1.3/01 Task Force KII 7.3: Reg. Doc. No. BASF 86/10187 GLP: Y	N	-	-	NUF BAS	DAR (1998)

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
			<i>Published: N</i>					
IIA.7.1.1. 2.1	<i>Anonymous</i>	1984	<i>Behaviour of pesticide active ingredients in the soil (Mecoprop-P, Duplosan KV) LUFA, Speyer, Germany. Aug. 29, 1984 Task Force KII 7.6: Reg. Doc. No. BASF 84/10052 Task Force KIII 9.3: Reg. Doc. No. BASF 84/10052 GLP: N Published: N</i>	<i>N</i>	-	-	<i>BAS</i>	<i>DAR (1998)</i>
IIA.7.1.1. 2.1	<i>Pistel F</i>	1994	<i>Further calculations on degradation rates for Reg. Doc. #BASF 84/10052 SCC GmbH, Biebelsheim, Germany. Jan 5, 1994 Task Force KII 7.7: Reg. Doc. No. BASF 94/10196 Task Force KIII 9.4: Reg. Doc. No. BASF 94/10196 GLP: N Published: N</i>	<i>N</i>	<i>Y (but expired)</i>	-	<i>BAS</i>	<i>DAR (1998)</i>
IIA.7.1.1. 2.1	<i>Smith AE &amp; Hayden BJ,</i>	1981	<i>Relative persistence of MCPA, MCPB and mecoprop in Saskatchewan soils, and the identification of</i>	<i>N</i>	-	-	<i>NUF</i>	<i>DAR (1998)</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
			<i>MCPA in MCPB-treated soils. Weed Research 21: 179-183. Nufarm Task Force KII: 7.1.1.2.1/02 GLP: Y Published: Y</i>					
<i>IIA.7.1.1. 2.1</i>	<i>Smith AE,</i>	<i>1989</i>	<i>Degradation, fate and persistence of phenoxyalkanoic acid herbicides in soil. Rev. Weed Sci. 4:1-24. Nufarm Task Force KII: 7.1.1.2.1/01 GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>NUF</i>	<i>DAR (1998)</i>
KCA 7.1.1.3/0 1	Connor, S.R.	1996a	MCP-P – soil photolysis study 96-1-6346 Springborn Laboratories Inc, USA GLP Not published	N	N		MCP-P Task Force	None: submitted for the purpose of renewal
<i>IIA. 7.1.1.4 IIA. 7.2.4</i>	<i>Helweg A.</i>	<i>1993</i>	<i>Degradation and adsorption of <sup>14</sup>C- mecoprop (MCP) in surface soils and in subsoil. Influence of temperature, moisture content, sterilization and</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</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
			<i>concentration on degradation. Science of the Total Environment 132: 229-241. GLP: N Published: Y</i>					
IIA. 7.1.1.4	Heron G, Christensen TH	1992	<i>Degradation of the herbicide mecoprop in an aerobic aquifer determined by laboratory batch cultures. Chemosphere 24: 547-557 GLP: N Published: Y</i>	N	-	-	BAS	DAR (1998)
IIA. 7.1.1.4	Ludwig P, Gunkel W, Hühnerfuss H	1992	<i>Chromatographic separation of the enantiomers of marine pollutants. Part 5: Enantioselective degradation of phenoxyacetic acid herbicides by marine microorganisms. Chemosphere 24: 1423-1429 GLP: N Published: Y</i>	N	-	-	BAS	DAR (1998)
IIA. 7.1.1.4	Oh KH, Tuovinen OH	1991	<i>Bacterial degradation of phenoxy herbicide mixtures 2,4-D and MCPP. Bull. Environ. Contam. Toxicol. 47: 222-229</i>	N	-	-	BAS	DAR (1998)



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
			(BASF Reg. Doc. 91/11684) GLP: N Published: Y					
IIA. 7.1.1.4	Tett VA, et al.	1994	Enantioselectiv e degradation of the herbicide mecoprop (2- (2-methyl-4- chlorophenoxy) -propionic acid) by mixed and pure bacterial cultures. FEMS Microbiol. Ecol. 14: 191- 199. GLP: N Published: Y	N	-	-	BAS	DAR (1998)
IIA. 7.1.1.4	Brehmer AC, Brüsch W, Felding G, Fomsgaard I, Helweg A, Jacobsen OS, Jørgensen P, Kristensen H, Marcher S, Mogensen BB, Odgaard P, Spliid NH	1996	Phenoxy-syrer: Vurdering af risiko for grundvand. (Phenoxyherbic ides: Evaluation of the risk for groundwater contamination - In Danish) Bekæmpelsesmi ddelforskning fra Miljøstyrelsen Nr. 18. Danish Environmental Protection Agency GLP: N Published: Y	N	-	-	Public	DAR (1998)
KCA 7.1.2.1.1/ 01	Hazlerigg, C., Garratt, J	2015	A kinetic analysis of the degradation of mecoprop-P and its	N	Y	New data submitted	Nufarm	None: Submitted for the purposes of renewal

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
			metabolites in aerobic soils as well as via photolysis in soil and water E2015-11 Enviresearch Not GLP Not published					
<i>IIA. 7.1.2</i>	<i>Matla YA &amp; Vonk JW</i>	<i>1993</i>	<i>Adsorption of mecoprop-P to soil particles in three soil types. TNO report IMW-R 93/035. Task Force KII 7.8: Reg. Doc. No. BASF 93/10223 Task Force KIII 9.5: Reg. Doc. No. BASF 93/10223 GLP: Y Published: N</i>	<i>N</i>	<i>N</i>	<i>-</i>	<i>MCPP- P Task Force</i>	<i>DAR (1998)</i>
<i>IIA. 7.1.2</i>	<i>Obrist JJ,</i>	<i>1986 (e)</i>	<i>Adsorption/des orption of mecoprop on representative agricultural soils. Hazleton Laboratories America, Study No. HLA 6015- 324, Aug 14, 1986 Nufarm Task Force KII: 7.1.2/01 GLP: Y Published: N</i>	<i>N</i>	<i>N</i>	<i>-</i>	<i>MCPP- P Task Force</i>	<i>DAR (1998)</i>
<i>KCA 7.1.2.1.1/ 02</i>	<i>Hauck, G.T.</i>	<i>2003</i>	<i>Standardisation of laboratory half-lives of BAS 037 H – Mecoprop-P to</i>	<i>N</i>	<i>N  (Used in UK national assessment –</i>		<i>MCPP- P Task Force</i>	<i>DAR Addendum V (March 2003)</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
			<i>reference conditions according to the recommendatio ns of FOCUS CALC-431 BASF Aktiengesellsch aft Not GLP Not published ⇒ previously submitted</i>		<i>data protection expires 27/01/19)</i>			
KCA 7.1.2.1.1	Schocken, M J	1997	MCP-P Aerobic Soil Metabolism Springborn Laboratories Inc. USA 13565.0495.61 02.760 GLP Not published ⇒ previously submitted (CA 7.1.1.1)	N	N		MCP-P Task Force	DAR (1998) and DAR Addendum I (2000)
KCA 7.1.2.1.1	Smith, A E & Hayden, B J	1981	Relative persistence of MCPA, MCPB and mecoprop in Saskatchewan soils, and the identification of MCPA in MCPB-treated soils. Weed Research 21: 179-183 Not GLP Published ⇒ previously submitted	N	N		Public	
KCA 7.1.2.1.1	Smith, A E	1989	Degradation, fate and persistence of	N	N		Public	

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
			phenoxyalkanoic acid herbicides in soil. Rev. Weed Sci. 4:1-24. Not GLP Published ⇒ previously submitted					
KCA 7.1.3.1.1/ 01	Simmonds, M.	2010	[ <sup>14</sup> C]- Mecoprop-P: adsorption to and desorption from four soils QC/09/001 Battelle UK Ltd GLP Not published ⇒ previously submitted	N	Y	New data submitted	Nufarm	None: submitted for the purpose of renewal
KCA 7.1.3.1.1	Matla, Y A & Vonk, J W	1993	Adsorption of Mecoprop-P to soil particles in three soil types IMW-R 93/035 TNO, Netherlands GLP Not published ⇒ previously submitted	N	N		MCP-P Task Force	DAR (1998)
KCA 7.1.3.1.1	Obrist, J J	1986e	Adsorption/des orption of Mecoprop on representative agricultural soils HLA 6015-324 Hazleton Laboratories America GLP Not published ⇒ previously	N	N		MCP-P Task Force	DAR (1998)

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
			<i>submitted</i>					
IIA. 7.1.3.1	Obrist JJ,	1986 (b)	Determination of the mobility of mecoprop in selected soils by soil thin layer chromatograph y. Hazleton Lab. Am., Study No. 6015-321. June 24, 1986. Nufarm Task Force KII: 7.1.3.1/01 GLP: Y Published: N	N	-	-	NUF	DAR (1998)
IIA. 7.1.3.2	Obrist JJ,	1986 (c)	Determination of the mobility of soil-aged mecoprop residues by soil thin layer chromatograph y. Hazleton Laboratories America, Study No. 6015-322. August 15, 1986. Nufarm Task Force KII: 7.1.3.1/02 Task Force KII 7.9: Reg. Doc. No. BASF 86/10202 Task Force KIII 9.6: Reg. Doc. No. BASF 86/10202 GLP: Y Published: N	N	-	-	BAS NUF	DAR (1998)
IIA. 7.1.3.2	Zohner A	1990	Determination of the mobility of soil aged residues by soil	N	-	-	BAS NUF	DAR (1998)



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
			<i>column leaching tests for <sup>14</sup>C-MCPP acid. Agrolinz Lab report No.1014, Project M8813. Feb. 1990. Nufarm Task Force KII: 7.1.3.2/01 Task Force KII 7.10: Reg. Doc. No. BASF 90/0206 Task Force KIII 9.7: Reg. Doc. No. BASF 90/0206 GLP: Y Published: N</i>					
<i>IIA. 7.1.3.3</i>	<i>Kubiak R,</i>	<i>1991</i>	<i>Outdoor lysimeter study on <sup>14</sup>C- mecoprop, Final report. LLFA Abt. Phytomedizin. Nov.1991 Nufarm Task Force KII 7.1.3.3/01 GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>NUF</i>	<i>DAR (1998)</i>
<i>KCA 7.1.4.2</i>	<i>Herrchen ,M</i>	<i>1991</i>	<i>Outdoor lysimeter study on Mecoprop- P P 89-E002 (91/11211) Fraunhofer- Institut für Umweltchemie und Ökotoxikologie , Germany GLP</i>	<i>N</i>	<i>N</i>		<i>MCCP- P Task Force</i>	<i>DAR (1998)</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
			<i>Not published ⇒ previously submitted</i>					
KCA 7.2.1.1	<i>Anonymou s</i>	1982	<i>Behaviour of pesticides in water. Hydrolytical stability 82/10060 BASF Not GLP Not published ⇒ previously submitted</i>	N	N		MCP-P Task Force	DAR (1998)
KCA 7.2.1.1	<i>Obrist, J J</i>	1986a, 1988 & 1990	<i>Photodegradati on and hydrolysis of mecoprop in aqueous buffer &amp; amendments HLA 6015-320 Hazleton Laboratories America GLP Not published ⇒ previously submitted</i>	N	N		MCP-P Task Force	DAR (1998)
KCA 7.2.1.2/0 1	Connor, S.R.	1996b	MCP-P – Aqueous photolysis study 96-1-6341 Springborn Laboratories Inc, USA GLP Not published	N	Y	New data submitted	MCP-P Task Force	None: submitted for the purpose of renewal
KCA 7.2.1.2/0 2	Simmons, K	2015	Assessment of the presence or absence of the parent toxophore in o- cresol (metabolite of	N	N	New data submitted	Nufarm	Submitted for the purposes of renewal

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
			Mecoprop-P Nufarm UK Ltd Wyke_2015- 043 Not GLP Not published					
KCA 7.2.1.2	Klöppfer , W	1991	Determination of the phototransform ation in water of Mecoprop-P according to UBA test guideline Direct phototransform ation. BE-P-49-91- PHO-02 Batelle Europe GLP Not published ⇒ previously submitted	N	N		MCCP- P Task Force	DAR (1998)
KCA 7.2.1.2	Maestracci , M	1992 <sup>1</sup>	Calculation of the environmental photolytic half- life of mecoprop-P in water 429722 Rhône-Poulenc GLP Not published ⇒ previously submitted	N	N		MCCP- P Task Force	DAR (1998)
IIA.7.2.1. 3.2	Balk F, Stroo CA	1985	Biodegradation of auxine herbicides in an	N	-	-	NUF	DAR (1998)

<sup>1</sup> Maestracci, 1991 (year of report is incorrectly annotated in 91/414/EC Monograph/DAR references), report is dated 29 Sept 1992

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
			<i>aquatic system (CMPP). Akzo D 85/48/956a, June 4 1985. Nufarm Task Force KII: 7.2.1.3.1/02 GLP: N Published: N</i>					
<i>IIA.7.2.1.3.2</i>	<i>Bieber WD &amp; Kröhn R,</i>	<i>1991</i>	<i>Degradation of mecoprop-P in aerobic aquatic environment. Natec Institut, NA 90 9688/2 Task Force KII 7.19: Reg. Doc. No. BASF 91/10994 GLP: Y Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>KCA 7.2.2.1/01</i>	<i>Feil, N.</i>	<i>2010</i>	<i>Ready biodegradability of Mecoprop-P in a manometric respirometry test 55481163 IBACON GLP Not published</i>	<i>N</i>	<i>Y</i>	<i>New data submitted</i>	<i>Nufarm</i>	<i>Submitted for the purposes of renewal</i>
<i>KCA 7.2.2.1</i>	<i>ten Berge, WF &amp; Blok, J</i>	<i>1978</i>	<i>Environmental assessment of auxin herbicides No report number Akzo Research, Netherlands Not GLP Not published</i>	<i>N</i>	<i>N</i>		<i>MCCP-P Task Force</i>	<i>DAR (1998)</i>
<i>IIA. 7.2.2.1</i>	<i>Kubiak, R.</i>	<i>1994 (a)</i>	<i>Investigation of the volatilization of</i>	<i>N</i>	<i>N</i>	<i>-</i>	<i>MCCP-P Task Force</i>	<i>DAR (1998)</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
			<i><sup>14</sup>C-MCPP-P and <sup>14</sup>C- Bifenox formulated according to Foxtril super (RPA30535H) from plant surfaces under laboratory conditions. SLFA, FB Phytomedizin. Study No. RPA15. Sept 19, 1994. GLP: Y Published: N</i>					
IIA. 7.2.2.1	Kubiak, R.	1994 (b)	<i>Investigation of the volatilization of <sup>14</sup>C-MCPP-P and <sup>14</sup>C- Bifenox formulated according to Verigal D (RPA44040H) from plant surfaces under laboratory conditions. SLFA, FB Phytomedizin. Study No.: RPA14. Aug.25, 1994. Task Force KII 7.21: Reg. Doc. No. BASF 94/11252 GLP: Y Published: N</i>	N	N	-	MCPP- P Task Force	DAR (1998)
KCA 7.2.2.2/0 1	Traub, M.	2014	Aerobic mineralisation of [ <sup>14</sup> C]Mecoprop -P in surface	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal

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
			water S13-00242 Eurofins Agroscience Services GLP Not published					
IIA. 7.2.2.2	Jendrejczak N, Turier G, Maestracci M	1994 (a)	Soil surface volatilization study of MCPP-P and Bifenox formulated as EXP30535 (official German reference No. RPA30535H). GLP: Y Published: N	N	N	-	MCPP-P Task Force	DAR (1998)
IIA. 7.2.2.2	Jendrejczak N, Turier G, Maestracci M,	1994 (b)	Soil surface volatilization study of MCPP-P and Bifenox formulated as EXP04404 (official German reference No. RPA44040H). GLP: Y Published: N	N	N	-	MCPP-P Task Force	DAR (1998)
IIA. 7.2.2.3	Hesse B, Fegert A & Sarafin R,	1993	Evaluation of the volatilization of mecoprop-P and 2,4-D after application of BAS 076 10 H under field conditions. BASF Report No. 3585. April 19, 1993. Task Force KII 7.22: Reg. Doc. No. BASF	N	N	-	MCPP-P Task Force	DAR (1998)



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
			93/11516. GLP: Y Published: N					
KCA 7.2.2.3	Cooper, J L D & Unsworth, R H	1996	Mecoprop-P: Degradation in Two Water/Sedimen t Systems Rhone-Poulenc Ltd, UK P 95/123 (BASF reg Doc # 96/100348) GLP Not published	N	Y (but expired)	NA	MCPP- P Task Force	DAR Addendum II (July 2002)
KCA 7.2.2.3/0 1	Hazlerigg, C. and Garrett, J.	2014	Kinetic analysis of Mecoprop-P degradation in water-sediment studies E2014-25 Enviresearch Not GLP Not published	N	N	New guidance	Nufarm	Submitted for the purposes of renewal
KCA 7.2.2.4	Bieber WD & Kröhn R	1991	Degradation of mecoprop-P in aerobic aquatic environment. NA 90 9688/2 Natec Institut, Germany GLP Not published	N	N		MCPP- P Task Force	DAR (1998)
KCA 7.2.2.4/0 2	Roohi, A.	2014	[14C]- Mecoprop-P: Route and rate of degradation in two water/sediment systems at 20 ± 2°C WU/14/004 Battelle UK GLP	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal



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
			Not published					
CA 7.2.3	Boule, P. <i>et al</i>	2002	Direct phototransformation of aromatic pesticides. International Journal of Photoenergy, Vol. 4. Pages 69-78. GLP : N Published : Y	N	N	N	Public	Submitted for the purposes of renewal
CA 7.2.3	Deborde, M, van Gunten, U.	2008	Reactions of chlorine with inorganic and organic compounds during water treatment – kinetics and mechanisms: a critical review. Water Research, Vol. 42. Pages 13-51 GLP : N Published : Y	N	N	N	Public	Submitted for the purposes of renewal
CA 7.2.3	Petrie AJ, Melvin MAL, Plane NH and Littlejohn, JW.	1993	The effectiveness of water treatment processes for removal of herbicides. <i>The Science of the Total Environment</i> ; 135, 161-169 GLP : N Published : Y	N	N	N	Public	Submitted for the purposes of renewal
CA 7.2.3	Sauer, F <i>et al</i>	1999	Formation of hydrogen peroxide in the ozonolysis of	N	N	N	Public	Submitted for the purposes of renewal

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
			isoprene and simple alkenes under humid conditions. Atmospheric Environment, Vol 33, Issue 2 pages 229-241. GLP : N Published : Y					
CA 7.2.3	Walters, J.	No date given	Environmental Fate of 2,4-Dichlorophenoxyacetic acid, Dept of Pesticide Regulation, Sacramento, California. GLP : N Published : Y	N	N	N	Public	Submitted for the purposes of renewal
CA 7.2.3	Zipper, Ch., <i>et al</i>	1999	Fate of the herbicides mecoprop, dichlorprop and 2,4-D in aerobic and anaerobic sewage sludge as determined by laboratory batch studies and enantiomer-specific analysis. Biodegradation , 10, pages GLP : N Published : Y	N	N	N	Public	Submitted for the purposes of renewal
IIA. 7.2.3	Atkinson, R.	1987	<i>A structure-activity relationship for the estimation of rate constants for the gas-phase</i>	N	-	-	MCPP-P Task Force	DAR (1998)

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
			<i>reactions of OH radicals with organic compounds. International Journal of Chemical Kinetics 19: 799-828. Task Force KII 7.26: Reg. Doc. No. BASF 87/10829. GLP: N Published: Y</i>					
IIA. 7.2.3	Atkinson, R.	1988	<i>Estimation of gas-phase hydroxyl radical rate constants for organic chemicals. Environmental Toxicology and Chemistry 7: 435-442 Task Force KII 7.28: Reg. Doc. No. BASF 88/10864 GLP: N Published: Y</i>	N	-	-	MCPP-P Task Force	DAR (1998)
IIA. 7.2.3	Maestracci, M.	1994	<i>Mecoprop-P estimation of the rate of photochemical transformation in the atmosphere under tropospheric conditions. Rhône-Poulenc study 94-28, Apr.14, 1994. Doc. 436537 Task Force KII 7.27: Reg. Doc. No. BASF</i>	N	Y (but expired)	N/A	MCPP-P Task Force	In DAR (1998) and Addendum II to DAR (july 2002).

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
			94/11249 GLP: Y Published: N					
IIA. 7.2.3	Sarafin, R.	1991	Photochemical oxidative degradation of mecoprop (Atkinson). BASF Report No. 3157 June 1991. Task Force KII 7.25: Reg. Doc. No. BASF 91/10327. GLP: N Published: N	N	N	-	MCPP- P Task Force	DAR (1998)
IIA. 7.2.4	Helweg A, Odgaard P	1992	Måling af pesticidnedvask ning i lysimeterforsøg ved efterårsanvende lse af mechloprop (K-salt) på grovsandet jord. ( Leaching of autumn used <sup>14</sup> C-mecoprop (K-salt) in lysimeter studies - In Danish). 9. Danske Planteværnsko nference 1992. Statens Planteavlfsforsø g. Report No. S-2178, p.195- 209. GLP: N Published: Y	N	-	-	Public	DAR (1998)
IIA. 7.2.4	Odgaard P, Felding G, Heinrichso	1993	Nedvaskning af efterårsanvendt <sup>14</sup> C-	N	-	-	Public	DAR (1998)

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
	<i>n K, Helweg A.</i>		<i>mechlorprop (ethylhexylester) i lysimeterforsøg sammenlignet med udvaskning af <sup>14</sup>C- mechlorprop (salt). (Leaching of autumn applied <sup>14</sup>C-mecoprop (2-ethylhexyl ester) in lysimeter experiments compared to leaching of <sup>14</sup>C- mecoprop (salt) - In Danish). 10. Danske Planteværnsko nference 1993. Statens Planteavlfsfor g. Report No. S-2236, p.15- 27. GLP: N Published: Y</i>					
KCA 7.3	Comb, A	2000a	Mecoprop-P (Pure Grade) Physico- Chemical Properties, Amended Final Report NUF004/99523 Huntingdon Life Sciences, UK GLP Not published ⇒ CA 2.1/01	N	Y	New data submitted	Nufarm	None: submitted for the purpose of renewal
KCA 7.3	Maestracci, M	1994	Mecoprop-P estimation of	N	N		MCPP- P Task	DAR (1998)



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
			<i>the rate of photochemical transformation in the atmosphere under tropospheric conditions 94-28 Rhône-Poulenc GLP Not published ⇒ previously submitted</i>				<i>Force</i>	
KCA 7.3	<i>Simmons, K</i>	2014a	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P in groundwater following the application to Spring and Winter Cereals using FOCUS PEARL, PELMO and MACRO Nufarm UK Ltd. NUF2014-44 Not GLP Unpublished ⇒ CP 9.2.4/01	N	Y	New guideline requirement	Nufarm	Submitted for the purposes renewal
KCA 7.5/01	<i>Aldous, E., Johnson, I. &amp; Keirle, R.</i>	2015	Review of monitoring and occurrence of Mecoprop-P in surface freshwater, groundwater and drinking water in Europe. UC10693.01 WRc plc, UK	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal

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
			Not GLP Unpublished					
IIA. 7.6.2	Danish Hydraulic Institute	1995	MACRO simulations of Dichlorprop leaching on two typical Danish soil types. Technical Report for Miljøstyrelsen. GLP: N Published: Y	N	-	-	RMS	DAR (1998)
IIA. 7.6.3	Fielding M, Barcelo D, Helweg A, Galassi S, Torstensson L, Van Zoonen P, Wolter R, Angeletti G	1991	Pesticides in ground and drinking water. Water Pollution Research Report 27. Commission of the European Communities GLP: N Published: Y	N	-	-	Public	DAR (1998)
IIA. 7.6.3	GEUS	1997	Grundvandsøve rvågning 1997. (Ground water survey 1997 - In Danish) Danmarks Geologiske Undersøgelser Danish Geological Survey, Ministry of the Environment GLP: N Published: Y	N	-	-	RMS	DAR (1998)
IIA. 7.6.3	Gomme JW, Shurvell S, Hennings SM, Clark L,	1991	Hydrology of pesticides in a Chalk catchment: Surface waters. Journal of the Institution of	N	-	-	RMS	DAR (1998)

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
			<i>Water and Environmental Management 5: 546-552. GLP: N Published: Y</i>					
<i>IIA. 7.6.3</i>	<i>Hirvi J &amp; Rekolainen S</i>	<i>1995</i>	<i>Pesticides in precipitation and surface water in Finland In: Helweg A (ed.) Pesticides in precipitation and surface water. TemaNord 1995:558. Nordic Council of Ministers GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>
<i>IIA. 7.6.3</i>	<i>HMSO</i>	<i>1996</i>	<i>Pesticides in water. Report of "The Working Party on the Incidence of Pesticides in Water". Department of the Environment. GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>RMS</i>	<i>DAR (1998)</i>
<i>IIA. 7.6.3</i>	<i>Kirknel E &amp; Felding G,</i>	<i>1995</i>	<i>Analysis of selected pesticides in rain in Denmark In: Helweg A (ed.) Pesticides in precipitation and surface water.</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>RMS</i>	<i>DAR (1998)</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
			<i>TemaNord 1995:558. Nordic Council of Ministers GLP: N Published: N</i>					
<i>IIA. 7.6.3</i>	<i>KIWA</i>	<i>1990</i>	<i>Pesticides and the drinking water supply in the Netherlands (Hopman R, van Beek CGEM, Janssen MJ, Puijker LM). KIWA report No. 113 GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>RMS</i>	<i>DAR (1998)</i>
<i>IIA. 7.6.3</i>	<i>Kreuger J,</i>	<i>1995</i>	<i>Pesticides in rainwater in Sweden In: Helweg A (ed.) Pesticides in precipitation and surface water. TemaNord 1995:558. Nordic Council of Ministers GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>Public</i>	<i>DAR (1998)</i>
<i>IIA. 7.6.3</i>	<i>Leistra M, Boesten JJTI,</i>	<i>1989</i>	<i>Pesticide contamination of groundwater in Western Europe. Agriculture, Ecosystem and Environment 26: 369-38 GLP: N Published: Y</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>RMS</i>	<i>DAR (1998)</i>
	<i>Rekolainen</i>	<i>1989</i>	<i>Occurrence of</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>RMS</i>	<i>DAR (1998)</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
IIA. 7.6.3	S,		<i>pesticides in drainage and surface water in Finland - Results and present studies. Nordic Plant Protection Conference 1989, Helsingør December 5-6. 1989 GLP: N Published: Y</i>					
IIA. 7.6.3	Mogensen BB & Spliid NH,	1995	<i>Pesticides in Danish watercourses: Occurrence and effects. Chemosphere 31(8): 3977- 3990. GLP: N Published: Y</i>	N	-	-	RMS	DAR (1998)
IIA. 7.6.3	Torstensson L,	1989	<i>Bekämpningsmedel i yt-och grundvatten i Sverige. (Pesticides in surface and ground water in Sweden). Nordic Plant Protection Conference 1989, Helsingør December 5-6. 1989 GLP: N Published: Y</i>	N	-	-	RMS	DAR (1998)
IIA. 7.6.3	Åkerblom M,	1988	<i>On pesticides in Swedish waters. Seminar on the EEC Directive 80/778, Como,</i>	N	-	-	RMS	DAR (1998)



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
			Nov 24-25, 1988. GLP: N Published: N					
IIA. 7.6.3	Åkerblom M,	1991	Pesticides in water - Past and future national monitoring programs in Sweden. Nordic Seminar. Pesticides in the aquatic environment - Appearance and effect. Nov.12-14, 1991, Tume Landboskole, Denmark.) GLP: N Published: Y	N	-	-	RMS	DAR (1998)
KCA 7/01	Buss, S.R. <i>et al.</i>	2006	A review of Mecoprop attenuation in the subsurface <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , <b>39, 283-292</b> Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/02	Rodriguez- Cruz, S. <i>et al.</i>	2010	Biodegradation of the herbicide Mecoprop-P with soil depth and its relationship with class III <i>tfda</i> genes <i>Soil Biology &amp; Biochemistry</i> ,	N	N		Public	None: Submitted for the purpose of renewal

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
			42, 32-39 Non GLP Published					
KCA 7/03	Nolan, B.T. <i>et al.</i>	2007	Sorption of 7 weak-acid pesticides in 41 European soils: controlling factors and empirical modelling <i>XIII Symposium Pesticide Chemistry- Environmental Fate and Ecological Effects, 187- 194</i> Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/04	Surdyk, N. <i>et al.</i>	2008	Estimation de la mobilité dans les sols de molécules ioniques à caractère acide faible: application à l'évaluation des risques environnement aux dans le cadre de l'homologation de produits phytosanitaires BRGM/RP- 56702-FR Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/05	Agnieszka, A. <i>et al.</i>	2013	Phenoxyalkano ic acid herbicide sorption and	N	N		Public	None: Submitted for the purpose of renewal

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
			the effect of co-application in a Haplic Cambisol with contrasting management. <i>Chemosphere</i> , <b>90</b> , 535-541 Non GLP Published					
KCA 7/06	Idowu, I.A. et al.	2014	Possible source term of high concentrations of Mecoprop-p in leachate and water quality: impact of climate change, public use and disposal. <i>Environmental technology</i> , <b>35</b> <b>(16)</b> , 2055- 2067 Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/07	Van Beinum, W. et al.	2007	The effect of soil type on pesticide leaching. <i>XIII Symposium Pesticide Chemistry- Environmental Fate and Ecological Effects</i> , <b>366- 373</b> Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/08	Degenhard t, D. et al.	2011	Dissipation of six acid herbicides in water and sediment of	N	N		Public	None: Submitted for the purpose of renewal

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
			two Canadian prairie wetlands. Environmental Toxicology and Chemistry, <b>30(9), 1982-1989</b> Non GLP Published					
KCA 7/09	Loos, R. <i>et al.</i>	2010	Occurrence of polar organic contaminants in the dissolved water phase of the Danube River and its major tributaries using SPE-LC-MS <sup>2</sup> analysis. <i>Water Research</i> , <b>44</b> , <b>2325-2335</b> Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/10	Nestorovska-Krsteska, A. <i>et al.</i>	2008	Determination of dimethoate, 2,4-Dichlorophenoxy acetic acid, mecoprop and linuron pesticides in environmental waters in Republic of Macedonia by High Performance Liquid Chromatography. <i>Macedonian Journal of Chemistry and Chemical</i>	N	N		Public	None: Submitted for the purpose of renewal

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
			<i>Engineering,</i> 27(1), 25-33 Non GLP Published					
KCA 7/11	Rice, J.P <i>et al.</i>	2010	Pesticide transport with runoff from creeping bentgrass turf: relationship of pesticides properties to mass transport. <i>Environmental Toxicology and Chemistry,</i> 29(6), 1209- 1214 Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal
KCA 7/12	Zhao, Y.Q <i>et al.</i>	2012	Current status of pesticides application and their residue in the water environment in Ireland <i>International Journal of Environmental,</i> 70(1), 59-72 Non GLP Published	N	N		Public	None: Submitted for the purpose of renewal



## Product: Mecoprop-P K 600 g/L

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 9.1.1.1	Hauck, G.T.	2003	Standardisation of laboratory half-lives of BAS 037 H – Mecoprop-P to reference conditions according to the recommendations of FOCUS CALC-431 BASF Aktiengesellschaft Not GLP Not published ⇒ CA 7.1.2.1.1/01	N	N  (Used in UK national assessment – data protection expires 27/01/19)	N/A	MCPP-P Task Force	DAR Addendum V (March 2003)
KCP 9.1.2.1/01	Simmonds, M.	2010	[ <sup>14</sup> C]-Mecoprop-P: adsorption to and desorption from four soils QC/09/001 Battelle UK Ltd GLP Not published ⇒ CA 7.1.3.1.1/01	N	Y	New data	MCPP-P Task Force	Submitted for the purposes of renewal
IIIA 9.2.1	Dipl.- Geogr. T. Hauck	2003	Calculation of predicted environmental concentrations of mecoprop-p in ground water on a European scale. MCPP-P (1988) Task Force c/o BASF Aktiengesellschaft	N	Y (but expired)  (Used in UK national assessment – data protection expires 27/01/19)	-	BAS	DAR Addendum V (March 2003)

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
			<i>Study code: CALC-430. GLP: n.a. Published: N</i>					
IIIA 9.2.1	Anon	2003	<i>Statement: Leaching potential of BAS 037 H - mecoprop-p to groundwater on a European scale. MCP-P (1988) Task Force c/o BASF Aktiengesellsch aft BASF Doc ID 2003/1005439. GLP: n.a. Published: N</i>	N	Y (but expired)	-	BAS	DAR Addendum V (March 2003)
KCP 9.2.1/01	Traub, M.	2014	Aerobic mineralisation of [ <sup>14</sup> C]Mecoprop -P in surface water S13-00242 Eurofins Agroscience Services, Germany GLP Not published ⇒ CA 7.2.2.2/01	N	Y	New guideline requirement	Nufarm	Submitted for the purposes of renewal
KCP 9.2.1/02	Hazlerigg, C & Garratt, J	2014	Kinetic analysis of Mecoprop-P degradation in water-sediment studies E2014-25 Enviresearch Not GLP	N	Y	New guideline requirement	Nufarm	Submitted for the purposes of renewal

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
			Not published ⇒ CA 7.2.2.4/01					
KCP 9.2.1/03	Hazlerigg, C & Garratt, J	2014	Kinetic analysis of Mecoprop-P degradation in water-sediment studies E2014-25 Enviresearch Not GLP Not published ⇒ CA 7.2.2.4/01	N	Y	New guideline requirement	Nufarm	Submitted for the purposes of renewal
KCP 9.2.2/01	Cooper, J L D & Unsworth, R H	1996	<i>Mecoprop-p: Degradation in Two Water/Sedimen t Systems Rhone-Poulenc Ltd, UK P 95/123 GLP Not published ⇒ Previously submitted CA 7.2.2.4</i>	N	N		MCPP- P Task Force	DAR Addendum II (July 2002)
KCP 9.2.4/01	Simmons, K	2014a	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P in groundwater following the application to Spring and Winter Cereals using FOCUS PEARL, PELMO and MACRO Nufarm UK Ltd. NUF2014-44 Not GLP	N	Y	New guideline requirement	Nufarm	Submitted for the purposes of renewal

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
			Unpublished					
CP 9.2.4.1/0 2	Simmons K	2014b	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P in groundwater following application to Amenity Grassland using FOCUS PEARL, PELMO and MACRO Nufarm UK Ltd. Report number: NUF2014-45 GLP : NA Published : N	N	Y	New guideline requirement	Nufarm	Submitted for the purpose of renewal
KCP 9.2.4/03	Comb. A.L.	2000a	Mecoprop-P (pure grade) physico- chemical properties NUF004/99352 3 Huntingdon Life Sciences Ltd GLP Not published ⇒ CA 2.1/01	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
CP 9.2.5/01	Simmons, K	2014c	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P in surface water and sediment following application to	N	Y	New guideline requirement	Nufarm	Submitted for the purpose of renewal

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
			Spring and Winter Cereals using Step 1-2 in FOCUS Nufarm UK Ltd. NUF2014-46 Not GLP Not published					
CP 9.2.5/02	Simmons, K	2014d	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P in surface water and sediment following application to Amenity Grassland using Step 1-2 in FOCUS Nufarm UK Ltd. Report number: NUF2014-47 GLP : NA Published : Y	N	Y	New guideline requirement	Nufarm	Submitted for the purpose of renewal
CP 9.2.5/03	Simmons, K	2015	Calculation of Predicted Environmental Concentrations (PEC) of Mecoprop-P and its Metabolite o- cresol in Surface Water and Sediment following Application to Spring and Winter Cereals using Step 1-2 in FOCUS and	N	Y	New guideline requirement	Nufarm	Submitted for the purposes of renewal



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
			FOCUS SWASH and SWAN Nufarm UK Ltd. NUF2015-45 Not GLP Unpublished					
KCP 9.4/01	Feil, N.	2010	Ready biodegradability of Mecoprop-P in a manometric respirometry test 55481163 IBACON GLP Not published ⇒ CA 7.2.2.1/01	N	Y	New data	Nufarm	Submitted for the purposes of renewal

## A.9. ECOTOXICOLOGY DATA

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
IIA. 8.1.1	██████	1986 (a)	Avian Single-dose oral LD <sub>50</sub> of MCPPP (Mecoprop), TPH batch to the Bobwhite quail ( <i>Colinus virginianus</i> ). ██████ ██████ Nufarm Task Force KII 8.1.1/02 GLP: Y Published: N	Y	-	-	MCPP-P Task Force	DAR (1998)
KCA 8.1.1.1	██████	1987 & 1994	Avian single dose oral LD <sub>50</sub> of MCPPP D-Form to the Bobwhite Quail ( <i>Colinus virginianus</i> ) & amendment ████████████████ ████████ ██████ ████████████████ ████████ GLP Not published ⇒Previously submitted	Y	N		MCPP-P Task Force	DAR (1998)
KCA 8.1.1.2	██████ ██████ ██████ █	1992b	R(+) 2-(2-methyl-4-chlorophenoxy) propionic acid dimethylamine salt (MCPPP-P DMAS): 14 Day Acute Oral LD <sub>50</sub> study in Bobwhite Quail ████████████████	Y	Y (but expired)		MCPP-P Task Force	DAR (1998)

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
			█ █ █ GLP Not published ⇒Previously submitted					
KCA 8.1.1.1/0 1	█ █	1995	Mecoprop-P acute oral toxicity (LD <sub>50</sub> ) to bobwhite quail █ █ █ █ Ltd GLP Not published	Y	N		Nufarm	Submitted for purpose of renewal
KCA 8.1.1.2	█ █ █ █	1992b	R(+)-2-(2- Methyl-4- chlorophenoxy) propionic acid dimethylamine salt (MCP-P DMAS): 8-Day Acute Dietary LC <sub>50</sub> Study in Bobwhite Quail █ █ █ █ GLP Not published ⇒Previously submitted	Y	N	N/A	MCP-P Task Force	DAR (1998)
IIA. 8.1.	█	1986 (a)	MCP-P: An acute oral toxicity study with the Mallard duck. Final report. █ █ █ █	Y	-	-	NUF	DAR (1998)

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
			19, 1986. Nufarm Task Force KII 8.1.1/01 GLP: Y Published: N					
KCA 8.1.1.2/01	██████	1996	MCCP-P-DMA Salt – Avian Dietary LC <sub>50</sub> test in chicks of the mallard duck ( <i>Anas platyrhynchos</i> L.) ████████████████████ ██████ ████████████████████ ███ GLP Not published ⇒ Previously submitted	Y	N	New data submitted	MCCP-P Task Force	Submitted for the purposes of renewal
KCA 8.1.1.3	████████ ██████ ██████ ████	1999	Technical Mecoprop-p DMA Effects on Reproduction in Japanese Quail after Dietary Administration ████ ██████████ ██████████ ██████████ ██████████ ████ GLP Not published ⇒ Previously submitted	Y	N	N/A	MCCP-P Task Force	DAR Addendum II (July 2002)
KCA 8.1.2	██████	1994a	Mecoprop-P: Acute Oral LD <sub>50</sub> in the rat. ██████████ ████████████████████ ██████	Y	N		MCCP-P Task Force	DAR (1998)

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
			GLP Not published ⇒Previously submitted, data relied upon CA 5.2.1					
KCA 8.1.2	██████	2009	Acute dietary toxicity of MCPP-P in mice ██████ ██████ ██████ ██████ GLP Not published ⇒ CA 5.2.1/01	Y	Y	New data submission	MCPP-P Task Force	Submitted for the purposes of renewal
KCA 8.1.2	██████	2003	Mecoprop-P: oral (dietary administration) preliminary reproduction toxicity study in the rat ██████ ██████ ██████ ██████ GLP Not published ⇒ CA 5.6.1/01	Y	N		Nufarm	
IIA. 8.1.2	██████	1986 (b)	MCPP: A dietary LC <sub>50</sub> study with the Mallard. ██████ ██████ ██████ ██████ ██████ ██████ ██████ ██████ ██████ ██████ GLP: Y	Y	-	-	NUF BAS	DAR (1998)



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
			<i>Published: N</i>					
IIA. 8.1.2	██████	1986 (b)	Avian dietary LC <sub>50</sub> test of MCP (Mecoprop); TPH batch to the Bobwhite ( <i>Colinus virginianus</i> ). ██████████ ██████ ██████████ ██████████ Nufarm Task Force KII 8.1.2/02 GLP: Y <i>Published: N</i>	Y	-	-	NUF	DAR (1998)
KCA 8.1.5/01	CRD	2013	Extended impact assessment study of the human health and environmental criteria for endocrine disrupting substances proposed by HSE, CRD WRc Ref: Defra9088 Not GLP Published	N	N		Public	
KCA 8.2.1	██████	1989	Report on the study of the acute toxicity of mecoprop-P Bluegill ( <i>Lepomis macrochirus</i> RAF) ██████████ ██████████ ██████ ██████████ █	Y	N		MCP- P Task Force	DAR (1998)

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
			GLP Not published ⇒Previously submitted – relied on					
IIA. 8.2.1	██████	1990 (a)	MCP (as DMA salt). 96 hour acute toxicity study (LC50) in the carp (static). ██████ ██████ ██████ ██████ 8.2.1/03 GLP: Y Published: N	Y	-	-	NUF	DAR (1998)
IIA. 8.2.1	██████	1990 (b)	MCP (as DMA salt). 96-hour acute toxicity study (LC50) in the rainbow trout (flow through) ██████ March 20, 1990 Nufarm Task Force KII 8.2.1/04 GLP: Y Published: N	Y	-	-	NUF	DAR (1998)
IIA 8.2.1 (IIIA.10.2 .1)	██████ ██████	1992 (a)	Report on the study of the acute toxicity of mecoprop-P DMA salt on rainbow trout (Oncorhynchus mykiss). ██████ Task Force KIII 10.4: Reg. Doc.	Y	Y (but expired)	-	MCP- P Task Force	DAR (1998)

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
			No. BASF 92/11938 GLP: Y Published: N					
IIA. 8.2.1	██████	1984 (a)	Report on the study of the acute toxicity of CMPP (Mecoprop) - racemate (test substance No 83/47) to Rainbow trout ( <i>Salmo gairdneri</i> Rich). ██████ ██████ Nufarm Task Force KII 8.2.1/01 GLP: Y Published: N	Y	-	-	NUF	DAR (1998)
IIA. 8.2.1	██████	1984 (b)	Report on the study of the acute toxicity of CMPP (Mecoprop) - D- form (test substance 84/173) to Rainbow trout ( <i>Salmo gairdneri</i> Rich). ██████ Dec. 20, 1984. Task Force KII 8.4: ██████ ██████ ██████ Task Force KIII 10.5: ██████ ██████ ██████ GLP: Y Published: N	Y	N	N/A	MCP- P Task Force	DAR (1998)
IIA. 8.2.1	██████	1986 (c)	Testing for acute toxicity in fish. MCP (Meco- prop), TPH-	Y	-	-	NUF	DAR (1998)

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
			batch to the Bluegill sunfish ( <i>Lepomis macrochirus</i> ). [REDACTED] [REDACTED] [REDACTED] Nufarm Task Force KII 8.2.1/02 GLP: Y Published: N					
IIA. 8.2.1	[REDACTED]	1989	Report on the study of the acute toxicity of mecoprop-P. Bluegill ( <i>Lepomis macrochirus RAF</i> ). [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP: Y Published: N	Y	N	N/A	MCCP- P Task Force	DAR (1998)
IIA 8.2.1 (IIIA.10.2 .1)	[REDACTED] [REDACTED]	1992 (b)	Study report. Acute toxicity study on the Bluegill ( <i>Lepomis macrochirus RAF</i> ) of mecoprop-P DMA salt in a static system (96 hours). [REDACTED] [REDACTED] [REDACTED]	Y	Y (but expired)	-	MCCP- P Task Force	DAR (1998)

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
			<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP: Y</p> <p>Published: N</p>					
IIA. 8.2.	[REDACTED]	1990 (c)	<p>MCPP (as DMA salt). 21-day prologed toxicity study in the rainbow trout (flow through).</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>Nufarm Task Force KII</p> <p>8.2.2/01</p> <p>GLP: Y</p> <p>Published: N</p>	Y	-	-	NUF	DAR (1998)
KCA 8.2.2.1/0 1	[REDACTED]	2015	<p>Mecoprop-P acid: toxic effects to Rainbow Trout (<i>Oncorhynchus mykiss</i>) in an</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP</p> <p>Published</p>	Y	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
IIA. 8.2.2	[REDACTED]	1993	<p>Sublethal toxic effects on the rainbow trout (<i>Oncorhynchus mykiss</i> Walb.1792) of mecoprop-P-acid in a flow through system (28 days); OECD 204.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	Y	N	N/A	MCPP-P Task Force	DAR (1998)



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
			<p>██████████ ██████████ ██████████ ██████████ ██████████ GLP: Y Published: N</p>					
IIA. 8.2.2.3	██████████ ██████████	1986	<p>Accumulation and elimination of <sup>14</sup>C-mecoprop by Bluegill sunfish in a dynamic flow-through system. ██████████ ██████████ ██████████ GLP: Y Published: N</p>	Y	N	N/A	MCCP-P Task Force	DAR (1998)
KCA 8.2.3/01	CRD	2013	<p>Extended impact assessment study of the human health and environmental criteria for endocrine disrupting substances proposed by HSE, CRD WRc Ref: Defra9088 Not GLP Published ⇒ CA 8.1.5/01</p>	N	N		Public	
IIA. 8.2.4	Bell G,	1994	<p>Mecoprop P. Acute toxicity to <i>Daphnia magna</i>. Huntingdon Research Centre Ltd., Oct.3, 1994 Task Force KII 8.9: Reg. Doc. No. BASF 447/941082 GLP: Y</p>	N	Y (but expired)	N/A	MCCP-P Task Force	DAR (1998)

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
			<i>Published: N</i>					
KCA 8.2.4.1	Elendt- Schneider, H	1991	Determination of the acute toxicity of Mecoprop-P (Reg.-Nr. 154 241) to the water flea <i>Daphnia magna</i> STRAUS 1/89/0280/ 50/1 BASF, Germany GLP Not published ⇒ Previously submitted – relied on	N	N	N/A	MCP- P Task Force	DAR (1998)
IIA. 8.2.5	Müllerschö n H, <sup>(1)</sup>	1990	Influence of MCP (as DMA salt) on the reproduction of <i>Daphnia magna</i> . CCR Project No. 167703. Jan. 30, 1990 Nufarm Task Force KII 8.2.5/01 GLP: Y Published: N	N	N	N/A	MCP- P Task Force	DAR (1998)
KCA 8.2.5.1	Dohmen, G P	1993a	Effect of Mecoprop-P on the Reproduction of <i>Daphnia magna</i> STRAUS in a Chronic Toxicity Test P92-E117 (93/10844) BASF Aktiengesellscha ft, Germany GLP Not published ⇒ Previously submitted – relied on	N	N	N/A	MCP- P Task Force	DAR (1998)

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
KCA 8.2.5.1	Dohmen, G P	1993b	<i>Effect of Mecoprop-P on the Growth of the Green Alga Pseudokirchneriella subcapitata</i> P91-E119 (93/10385) BASF Aktiengesellschaft, Germany GLP Not published ⇒Previously submitted – relied on	N	N	N/A	MCCP-P Task Force	DAR (1998)
IIA 8.2.6 IIA 8.2.8	Fisher K	1999	Establishment of Methodology for the Analysis of Mecoprop-p Dimethylamine Salt in Aquatic Toxicology Media. Toxicology Media. Inveresk Report no. 17875. Mecoprop-p Task Force, BASF Doc ID 1999/1003116 GLP: Y Published: N	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)
KCA 8.2.6.2	Armstrong, K	2000	<i>Mecoprop-P dimethylamine salt, Alga, growth inhibition test (72 h, EC<sub>50</sub>) (Anabaena flos-aquae)</i> 17864/ 395831 (2000/100 0259) Inveresk Research, UK GLP Not published	N	N	N/A	MCCP-P Task Force	DAR Addendum II (July 2002)

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
			⇒Previously submitted – relied on					
KCA 8.2.6.2/01	Jenkins, C.A.	2007	Mecoprop-P (DMA salt) algal growth inhibition assay <i>Navicula</i> ZZF0001/063120 Huntingdon Life Sciences Ltd GLP Not published	N	N	New data submitted	Nufarm	Submitted for the purpose of renewal
KCA 8.2.6.2/02	Burke, J.	2007	Mecoprop-P (DMA salt) algal growth inhibition assay <i>Skeletonema</i> ZZF0002/063525 Huntingdon Life Sciences Ltd GLP Not published	N	N	New data submitted	Nufarm	Submitted for the purpose of renewal
KCA 8.2.7	Caley, C Y; Kelly, C R	1999	Mecoprop-P dimethylamine salt <i>Lemna spp.</i> , growth inhibition test 17861/ 395286 (1999/1003 117) Inveresk Research, UK GLP Not published ⇒Previously submitted	N	N		MCP-P Task Force	DAR Addendum II (July 2002)
KCA 8.2.7	Hoberg, J, R & Witting, R.	1992	MCP-P DMAS – Toxicity to The Duckweed <i>Lemna gibba</i> 92-3-4174 (92/5217) Springborn Laboratories	N	N	N/A	MCP-P Task Force	DAR Addendum III (December 2002)

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
			<i>Inc, USA</i> <i>GLP</i> <i>Not published</i> <i>⇒Previously</i> <i>submitted</i>					
KCA 8.2.8/01	Simmons, K	2015	Position Paper: Assessment of the presence or absence of the parent toxophore in o-cresol (metabolite of Mecoprop-P) Wyke_2015_04 3 Nufarm UK Ltd Not GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCA 8.2.8	Gonsoir G	2015	Mecoprop-p K, 600 g/L: Growth Inhibition of <i>Myriophyllum</i> <i>spicatum</i> in a Water/Sediment System S13-04889 Eurofins Agroscience Services GLP Not published ⇒ CP 10.2.1/05	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCA 8.2.8	Seeland- Fremer, A & Mosch, W	2015	Toxicity of Mecoprop-p K 600 g/L to the Aquatic Plant <i>Myriophyllum</i> <i>spicatum</i> in a Static Growth Inhibition Test with Prior Rooting Phase 91411215 IBACON GLP	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal



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
			Not published ⇒ CP 10.2.1/06					
KCA 8.3.1.2	Hoxter, K A & Lynn, S P	1991	MCCP-P DMAS: An Acute contact toxicity study to the honeybee 147-142 Wildlife International Ltd, USA GLP Not published	N	N		MCCP- P Task Force	DAR (1998)
KCA 8.3.1.1 & 8.3.1.2	Weyman, G S	1999	MCCP-P DMA Acute contact and oral toxicity to honeybees 1149/24-D2145 Covance Laboratories, UK GLP Not published ⇒ Previously submitted – relied on	N	N	N/A	MCCP- P Task Force	DAR Addendum II (July 2002)
KCA 8.3.1.3/0 1	Kleebaum, K	2014	Acute toxicity of Mecoprop-P technical acid to honeybee larvae <i>Apis mellifera</i> L. under laboratory conditions ( <i>in vitro</i> ) 14 10 48 023 B BioChem agrar GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCA 8.3.1.4/0 1	Mack, P.	2012	LAF-74: a semi- field study to investigate residues in honeybee products and honeybee larvae ( <i>Apis mellifera</i>	N	N	New data submitted	Nufarm	Submitted for purposes of renewal  (Note: this study was considered for the

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
			<i>carnica</i> L.; Hymenoptera, Apidae) in Phacelia tanacetifolia in Germany in 2011 S11-02084 Eurofins Agrosience Services EcoChem GmbH GLP Not published					review of 2,4-D according to Regulation 1141/2010).
KCA 8.3.1.4/02	Gaskell, V	2012	Mecoprop-p K 600 g/l – justification of dose selection in the bee brooding study Wyke_2012_022 Nufarm UK Ltd Not GLP Not published	N	N		Nufarm	
KCA 8.3.1.4/03	Franke, M	2013	Effects of CMPP-P K 600 g/L OAI on the honeybee <i>Apis mellifera</i> L. in a bee brood study under field conditions 12 10 48 001 B BioChem agrar GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purpose of renewal
IIA. 8.3.2 IIIA.10.5.1	Dohmen GP,	1990	Effects of BAS 037 01 H on the mortality of <i>Poecilus cupreus</i> . BASF report No. 2780, July 1990. Task Force KII	N	-	-	BAS NUF	DAR (1998)

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
			8.13: Reg. Doc. No. BASF 90/10288 Task Force KIII 10.19: Reg. Doc. No. BASF 90/10288 Nufarm Task Force KIII 10.5.1/02 GLP: Y Published: N					
KCA 8.3.2.1	Stevens, J	2014	Mecoprop-P K 600 g/L – A rate-response laboratory bioassay of the effects of fresh residues on the parasitic wasp <i>Aphidius rhopalosiphi</i> (De Stefani- Perez) (Hymenoptera, Braconidae) NUF-14-1 Mambo-Tox Ltd, UK GLP Not published	N	Y	New guideline requirements	Nufarm	Submitted for the purposes of renewal
KCA 8.3.2.2	Fallowfield , L	2014	Mecoprop-P K 600 g/L – A rate-response laboratory bioassay of the effects of fresh residues on the predatory mite <i>Typhlodromus pyri</i> (Acari: Phytoseiidae) NUF-14-2 Mambo-Tox Ltd, UK GLP Not published	N	Y	New guideline requirements	Nufarm	Submitted for the purposes of renewal

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
KCA 8.4.1/01	Stojanowitsch, M	2014	Mecoprop-P TGAI: sublethal toxicity to the earthworm <i>Eisenia fetida</i> Michaelsen (Haplotaxida, Lumbricidae) in artificial soil S13-00246 Eurofins Agrosience Services EcoChem GmbH GLP Not published	N	Y	New guideline requirements	Nufarm	Submitted for the purposes of renewal
KCA 8.5	Todt, K	1989b	<i>Effects of the plant protective agent Duplosan KV on the activity of the microflora of soil. 2. Nitrification</i> NA 88 9662 NATEC Institute, Germany GLP Not published ⇒ Previously submitted – relied on	N	N		MCP-P Task Force	DAR (1998)
KCA 8.6.2	Frank, P	2001a	BAS 037 32 H (MCP-P DMA 600 g/l): A toxicity test to determine the effects of the test item on the seedling emergence of terrestrial plants 70 843 (2001/1007645) BASF	N	N  (Used in UK national assessment – data protection expires 27/01/19)	N/A	MCP-P Task Force	DAR Addendum II (July 2002)

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
			<i>Aktiengesellschaft, Germany GLP Not published ⇒Previously submitted – relied on</i>					
<i>KCA 8.6.2</i>	<i>Frank, P</i>	<i>2001b</i>	<i>BAS 037 32 H (MCP-P DMA 600 g/l): A toxicity test to determine the effects of the test item on the vegetative vigour of terrestrial plants 70 845 (2001/1007646) BASF Aktiengesellschaft, Germany GLP Not published ⇒Previously submitted – relied on</i>	<i>N</i>	<i>N</i>  <i>(Used in UK national assessment – data protection expires 27/01/19)</i>		<i>MCP-P Task Force</i>	<i>DAR Addendum II (July 2002)</i>
<i>KCA 8.6.2</i>	<i>Oberwalder, C</i>	<i>2001</i>	<i>BAS 037 32 H (MCP-P DMA 600): A Toxicity Test to Determine the Effects of the Test item on Vegetative Vigor of Oilseed Rape (Brassica napar) under Field Conditions 70 847-1 BASF Aktiengesellschaft, Germany GLP Not published ⇒Previously submitted – relied on</i>	<i>N</i>	<i>N</i>		<i>MCP-P Task Force</i>	<i>DAR Addendum II (July 2002)</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
KCA 8.6.2/01	Eley, R	2009a	Nufarm R(+ )MCCP herbicide: evaluation of the phytotoxicity and effect on seedling emergence and growth of terrestrial non target plants ACE-09-031 Agrochemex GLP Not published	N	N  (Used in UK national assessment – data protection expires 27/01/19)	New data submitted	Nufarm	Submitted for the purpose of renewal
KCA 8.6.2/02	Eley, R	2009b	Nufarm R(+ )MCCP herbicide: evaluation of the phytotoxicity and effect on vegetative vigour of terrestrial non target plants ACE-09-032 Agrochemex GLP Not published	N	N  (Used in UK national assessment – data protection expires 27/01/19)	New data submitted	Nufarm	Submitted for the purpose of renewal
IIA. 8.7	Hamm RT,	1987	<i>Influence of mecoprop on the growth of Pseudomonas putida.</i> BASF Report No. BASF-LR 2464, Dec 17, 1987.  <i>Task Force KII 8.21: Reg. Doc. No. BASF 87/10720.</i> GLP: Y Published: N	N	N	N/A	MCCP-P Task Force	DAR (1998)
CA 8.8/01	Falk, S	2013	Toxicity to microorganisms	N	Y	New data submitted	Nufarm	Submitted for the

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
			activated sludge respiration inhibition test S13-00244 Eurofins Agrosience Services EcoChem GmbH GLP Not published					purposes of renewal
CA Section 9 (lit. data)	Mottier <i>et al.</i>	2014	Effects of acute exposures to Mecoprop, Mecoprop-p and their biodegradation product (2-MCP) on the larval stages of the Pacific oyster, <i>Crassostera gigas</i> . Aquatic Toxicology, <b>146, 165-175</b> Non GLP Published	N	N	N/A	Public	Submitted for the purpose of renewal

<sup>(1)</sup> Study not provided by notifier for renewal purposes so validity not confirmed by RMS. However lower endpoint reported in original DAR (1998) compared to submitted study (Dohmen, 1993a) and so study additionally utilised for risk assessment purposes.

## Product: Mecoprop-P K 600 g/L

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
IIIA.10.2. 1	██████████ ██████████ ██████████	1993 (a)	Acute toxicity of Marks Optica MPn to rainbow trout ( <i>Oncorhynchus mykiss</i> ) in a flow-through test (96 hours). ██████████ ██████████ ██████████ ██████████ Task Force KIII 10.3: Reg. Doc. No. BASF 93/11626 GLP: Y Published: N	Y	-	-	MCCP- P Task Force	DAR (1998)
KCP 10.2.1/01	██████████	2014a	Mecoprop-p K 600 (CA3015): Acute toxicity to Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) in a 96-Hour Test ██████████ ██████████ ██████████ ██████████ Switzerland GLP Not published	Y	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
IIIA.10.2. 1	Bias R,	1988	Determination of the acute toxicity of Duplosan KV (BAS 037 29 H) to the waterflea <i>Daphnia magna</i> Straus. BASF Report 1/492/2/88- 492/88, May 26, 1988	N	N	N/A	MCCP- P Task Force	DAR (1998)

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
			<i>Task Force KIII 10.8: Reg. Doc. No. BASF 88/10037 GLP: N Published: N</i>					
IIIA.10.2. 1	Memmert U & Knoch E,	1993 (b)	<i>Acute toxicity of Marks Optica MP n to Daphnia magna (48- hour immobilization test). RCC Umweltchemie. RCC 409138, Aug.25, 1993 Task Force KIII 10.9: Reg. Doc. No. BASF 93/11635 GLP: Y Published: N</i>	N	N	N/A	MCCP- P Task Force	DAR (1998)
CP 10.2.1/02	Liedtke, A	2014b	Mecoprop-p K 600 (CA3015): Acute Toxicity to <i>Daphnia magna</i> in a 48- Hour Immobilization Test D76033 Harlan Laboratories Ltd, Switzerland GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
IIIA.10.2. 1	Hanstveit AO,	1988	<i>Effects of U 46 KV-Fluid (560 g/l) on the growth of the alga Selenastrum capricornutum</i>	N	-	-	NUF	DAR (1998)

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
			(OECD 201) TNO Report No. 88/420. Nov. 9, 1988 Nufarm Task Force KIII 10.2.1 GLP: Y Published: N					
IIIA.10.2. 1	Memmert U & Knoch E,	1993 (c)	Toxicity of Marks Optica MP n to Pseudokirchner iella subcapitata (algae growth inhibition test). RCC Umweltchemie. Study RCC 409151, Aug.25, 1993 Task Force KIII 10.12: Reg. Doc. No. BASF 93/11627 GLP: Y Published: N	N	-	-	MCCP- P Task Force	DAR (1998)
CP 10.2.1/03	Liedtke, A	2013a	Mecoprop-p K 600 (CA3015): Toxicity to Pseudokirchner iella subcapitata in a 72-hour algal growth inhibition test D76044 Harlan Laboratories Ltd, Switzerland GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCP 10.2.1/04	Liedtke, A	2013b	Mecoprop-p K 600 (CA3015): Toxicity to the	N	Y	New data submitted	Nufarm	Submitted for the purposes of



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
			Aquatic Higher Plant <i>Lemna gibba</i> in a 7- day Growth Inhibition Test D76055 Harlan Laboratories Ltd, Switzerland GLP Not published					renewal
KCP 10.2.1/05	Gonsoir, G	2015	Mecoprop-p K, 600 g/L: Growth Inhibition of <i>Myriophyllum spicatum</i> in a Water/Sedimen t System S13-04889 Eurofins Agroscience Services GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCP 10.2.1/06	Seeland- Fremer, A & Mosch, W	2015	Toxicity of Mecoprop-p K 600 g/L to the Aquatic Plant <i>Myriophyllum spicatum</i> in a Static Growth Inhibition Test with Prior Rooting Phase 91411215 IBACON GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCP 10.3.2.1/ 01	Stevens, J	2014a	Mecoprop-P K 600 g/L – A rate response laboratory bioassay of the effects of fresh	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal

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
			residues on the parasitic wasp <i>Aphidius rhopalosiphi</i> (Hymenoptera: Braconidae) NUF-14-1 Mambo-Tox Ltd, UK GLP Not published					
KCP 10.3.2.1/ 02	Fallowfield , L	2014	Mecoprop-P K 600 g/L – A rate response laboratory bioassay of the effects of fresh residues on the predatory mite <i>Typhlodromus pyri</i> (Acari: Phytoseiidae) NUF-14-2 Mambo-Tox Ltd, UK GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCP 10.3.2.2/ 01	Stevens, J	2014b	Mecoprop-p K 600 g/L – A rate-response extended laboratory bioassay of the effects of fresh residues on the parasitic wasp <i>Aphidius rhopalosiphi</i> (Hymenoptera: Braconidae) NUF-14-3 Mambo-Tox Ltd, UK GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
KCP 10.3.2.2/	Vaughan, R	2015	Mecoprop-p K 600 g/L – An	N	Y	New data submitted	Nufarm	Submitted for the

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
02			extended laboratory test to evaluate the effects of fresh residues on the green lacewing <i>Chrysoperla carnea</i> (Neuroptera, Chrysopidae) NUF-14-4 Mambo-Tox Ltd, UK GLP Not published					purposes of renewal
IIIA 10.3.2.2	Ufer, A	1996	<i>Effect of BAS 037 29 H on the parasitoid Aphidius rhopalosiphii in an extended laboratory test. BASF study code 33161. Reg. Doc # BASF 96/10592. GLP Not published</i>	N	N	N/A	MCPP- P Task Force	In DAR Addendum II (July 2002)
IIIA 10.3.2.2	Ufer A	1999	<i>Effects of mecoprop-P DMA on the predatory mite Typhlodromus pyri (Acari: Phytoseiidae) in an extended laboratory trial BASF study code 58618. Reg. Doc # BASF 1999/11927 GLP: Y Published: N</i>	N	Y (but expired)	-	BAS	DAR Addendum II (July 2002)
IIIA.10.4. 1	Stute K,	1984	<i>Results of the registration study on</i>	N	-	-	BAS	DAR (1998)

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
			<i>toxicity to bees (BAS 037 29H). Off. Bee Research Inst, Celle, Germany. April 10, 1984. Task Force KIII 10.13: Reg. Doc. No. BASF 84/10006. GLP: N Published: N</i>					
<i>IIA.10.4.1</i>	<i>Stute K,</i>	<i>1986</i>	<i>Ergebnis der Zulassungsprüf ung auf Bienengefährlic hkeit, Laboratoriums prüfung (BAS 037 29H). Official Bee Research Institute, Celle, Germany. April 21, 1986. Task Force KIII 10.17: Reg. Doc. No. BASF 86/10012. GLP: N Published: N</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</i>
<i>IIIA.10.4. 1</i>	<i>Vorwohl G,</i>	<i>1984</i>	<i>Versuchbericht für die Prüfung im Zulassungsverf aren. Ergebnisse der Laborprüfung auf Bienengefährlic hkeit (BAS 037 29H). Universität Hohenheim, Germany. Oct. 31, 1984. Task Force KIII</i>	<i>N</i>	<i>-</i>	<i>-</i>	<i>BAS</i>	<i>DAR (1998)</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
			10.15: Reg. Doc. No. BASF 84/10010 English translation: Results of the registration study on toxicity to bees (BAS 037 29H). Task Force KIII 10.16: Reg. Doc. No. BASF 84/10011 GLP: N Published: N					
III A 10.4.1	Altmann,	1984	Results of the registration study on toxicity to bees (BAS 037 29H). Universität Saarbrücken, Germany. May 23, 1984. Task Force KIII 10.14: Reg. Doc. No. BASF 84/10009. GLP: N Published: N	N	-	-	BAS	DAR (1998)
KCP 10.4.2/01	McCormac , A	2015	Mecoprop-p K 600 g/L – A laboratory test to determine the effects of fresh residues on the springtail <i>Folsomia candida</i> (Collembola, Isotomidae) NUF-14-6 Mambo-Tox Ltd, UK GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal



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 10.4.2/02	Vinall, S	2015	Mecoprop-p K 600 g/L – A laboratory test to determine the effects of fresh residues on the predatory soil mite <i>Hypoaspis aculifer</i> (Acari, Laelapidae) NUF-14-5 Mambo-Tox Ltd, UK GLP Not published	N	Y	New data submitted	Nufarm	Submitted for the purposes of renewal
IIIA.10.5. 1	Klepka S & Petto R,	1994	<i>Effects of Optica MPK on Poecilus cupreus L. (Coleoptera, Carabidae) in laboratory. RCC project no 445702, April 22, 1994. AHMarks Task Force KII 8.14: Reg. Doc. No. BASF 94/11736 Task Force KIII 10.20: Reg. Doc. No. BASF 94/11736 GLP: Y Published: N</i>	N	N	N/A	MCPP- P Task Force	DAR (1998)
IIIA.10.5. 1	Petto R,	1994	<i>Effects of Optica MPK on Aleochara bilineata Gyll. (Coleoptera, Staphylinidae) in the laboratory. RCC Umweltchemie</i>	N	N	N/A	MCPP- P Task Force	DAR (1998)

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
			<i>RCC Project 445701, May 11 1994 Task Force KII 8.16: Reg. Doc. No. BASF 94/11750 Task Force KIII 10.22: Reg. Doc. No. BASF 94/11750 GLP: Y Published: N</i>					
<i>IIIA.10.5. 1</i>	<i>Samsøe- Petersen L,</i>	<i>1990</i>	<i>Effects of U 46 KV-Fluid on Aleochara bilineata (Gyll). Danish Research Service for Plant and Soil Science, March 27, 1990 Nufarm Task Force KIII 10.5.1/01 GLP: N Published: N</i>	<i>N</i>	<i>N</i>	<i>N/A</i>	<i>MCPP- P Task Force</i>	<i>DAR (1998)</i>
<i>KCP 10.5</i>	<i>Todt, K</i>	<i>1989a and b</i>	<i>Effects of the plant protective agent Duplosan KV on the activity of the microflora of soil. 1. Dehydrogenase activity and 2. Nitrification NA 88 9662 NATEC Institute, Germany GLP Not published ⇒Previous</i>	<i>N</i>	<i>N</i>		<i>MCPP- P Task Force</i>	<i>DAR (1998)</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
			<i>sly submitted</i>					
IIIA.10.6.1	Adema DMM & Roza P,	1989	<i>The acute toxicity of U 46- KV-Fluid (560 g/ MCPP acid as dimethylamine salt/l) to Eisenia fetida. TNO-report No. R 89/151, Oct.10, 1989. Task Force KII 8.17: Reg.Doc. No. BASF 89/10069 Task Force KIII 10.23: Reg. Doc. No. BASF 89/10069 Nufarm Task Force KIII 10.6.1.1/01 GLP: Y Published: N</i>	N	N	N/A	MCPP- P Task Force	DAR (1998)
KCP 10.6.2	Frank, P	2001a	<i>BAS 037 32 H MCPP-P DMA 600 g/l): A toxicity test to determine the effects of the test item on the seedling emergence of terrestrial plants 70 0843 SLFA, Germany Not published ⇒Previously submitted</i>	N	N		MCPP- P Task Force	DAR Addendum II (July 2002)
KCP 10.6.2	Frank, P	2001b	<i>BAS 037 32 H (MCPP-P DMA 600 g/l): A toxicity test</i>	N	N		MCPP- P Task Force	DAR Addendum II (July 2002)

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			<i>to determine the effects of the test item on the vegetative vigour of terrestrial plants 70 0845 SLFA, Germany Not published ⇒Previously submitted</i>					
KCP 10.6.2	Oberwalder, C	2001	BAS 037 32 H (MCP-P DMA 600): A Toxicity Test to Determine the Effects of the Test item on Vegetative Vigor of Oilseed Rape (Brassica nap a R) under Field Conditions 70 0847-1 BASF Aktiengesellsch aft, Germany Not published ⇒Previously submitted	N	N  (Used in UK national assessment – data protection expires 27/01/19)		MCP-P Task Force	DAR Addendum II (July 2002)
KCP 10.6.2/01	Simonheit, S	2002	Toxicity test to determine the effects of BAS 037 32 H on the vegetative vigour of 2 terrestrial plants 137 392 SLFA, Germany GLP Not published	N	N	N/A	MCP-P Task Force	Submitted for the purpose of renewal

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 10.6.4/01	Oberwalder, C	2002a	Toxicity test to determine the effects of BAS 037 32 H on the vegetative vigour of Pea ( <i>Pisum sativum</i> ) under Field Conditions 70847_2 BASF Aktiengesellschaft, Germany Not published	N	N		MCPP-P Task Force	
KCP 10.6.4/02	Oberwalder, C	2002b	Toxicity test to determine the effects of BAS 037 32 H on the vegetative vigour of Flax ( <i>Linum usitatissimum</i> ) under Field Conditions 70847_3 BASF Aktiengesellschaft, Germany Not published	N	N		MCPP-P Task Force	
KCP 10.6.4/03	Oberwalder, C	2003	Toxicity test to determine the effects of BAS 037 32 H on the vegetative vigour of Poppy ( <i>Papaver somniferum</i> ) under Field Conditions 70847_5 BASF Aktiengesellschaft, Germany Not published	N	N		MCPP-P Task Force	
IIIA.10.7.	Zohner A,	1989	Investigation of	N	N	N/A	MCPP-	DAR (1998)



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
1		(a)	the side effect of U 46 KV- Fluid (560 g/l mecoprop as DMA salt) on the ammonification and nitrification in two representative agricultural soils. Agrolinz Report No. 972. March 6, 1989. Nufarm Task Force KIII 10.7.1/01 GLP: Y Published: N				P Task Force	
IIIA.10.7. 1	Zohmer A,	1989 (b)	Study on the effect of U 46 KV-Fluid (560 g/l MCPPP as DMA salt) on soil respiration. Agrolinz Report No. 979. April 18, 1989. Task Force KII 8.19: Reg. Doc. No. BASF 89/10067 Task Force KIII 10.25: Reg. Doc. No. BASF 89/10067 Nufarm Task Force KIII 10.7.1/02 GLP: Y Published: N	N	N	N/A	MCPP- P Task Force	DAR (1998)