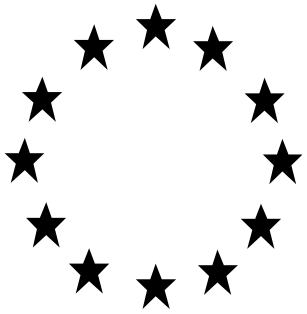
Regulation (EC) No. 1107/2009
of the European Council and Parliament



Asulam sodium

Annex A (Volume 2)

to the Report and Proposed Decision of the United Kingdom made to the European Commission under Regulation (EC) No. 1107/2009 for first approval of an active substance

List of Tests and Studies

Draft: April 2016

Version history

When	What
2016-04-18	Initial DAR

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A.1 Identity (IIA 1, IIIA 1)

*details to be added during Peer review

Active substance

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
CA 1.11.1/01	Vohra, Y.	2012a	Analysis of five representative production batches of asulam sodium (50% w/v) aqueous concentrate grade active ingredient to determine % asulam sodium and to quantify its associated impurities United Phosphorus Limited Report No.: 227-2-12-4961 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 1.11.1/02	Vohra, Y.	2012b	Determination of methanol content in five representative production batches of asulam sodium (50% w/v) aqueous concentrate United Phosphorus Limited Report No.: 258-2-12-4963 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 1.11.1/03	Desai, H.	2013	Calculation of asulam sodium (50% w/v) aqueous concentrate to asulam sodium dry United Phosphorus Limited Report JAI Research Foundation, India Not GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 1.11.2/01	Batten, P.	2010	Toxicological Relevance of Impurities of Asulam United Phosphorus Limited Report JSC International Limited, UK Not GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 1.11.1/04	Desai	2014b	Analysis of five representative production batches of asulam sodium aqueous concentrate grade active ingredient to determine % asulam sodium and to quantify its associated impurities United Phosphorus Limited Report No.: 227-2-12-8133 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 1.11.1/05	Desai	2014a	Method validation for of asulam sodium aqueous concentrate grade active ingredient and its associated impurities United Phosphorus Limited Report No.: 258-2-12-8132 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product – 'Asulox'

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 1.4.1-01	Pinto, L.	2013	Certificate of composition. Asulox Formulation Code HBM01 United Phosphorus Limited, UK Not GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.2 Physical and Chemical Properties

* details to be added during Peer Review

Active substance

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
CA 2.1.1/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.1.2/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.1.3/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.2/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.3.1/01	Françon, B.	2000	Asulam sodium - vapour pressure United Phosphorus Limited Report No.: R006757 Battelle Europe, Battelle-Institut e.V.; GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.3.2/01	Brachet, A.	2008a	Calculation of Henry's law constant of Asulam sodium United Phosphorus Limited Report No.: P-72-08-01 Battelle Switzerland GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.4.1/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.4.1/02	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.4.1/03	Vohra, Y.	2012a	Analysis of five representative production batches of asulam sodium (50% w/v) aqueous concentrate grade active ingredient to determine % asulam sodium and to quantify its associated impurities United Phosphorus Limited Report No.: 227-2-12-4961 JAI Research Foundation, India GLP, Unpublished ⇒ Document J CA 1.11.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.4.2/01	Françon B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.4.2/02	Françon B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.1/01	Zinini, N.; Guesnet J.-L.	1999	Asulam Na+ salt - NMR, IR, MS and UV-visible spectra United Phosphorus Limited Report No.: R006753 Rhone Poulenc Agro, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.1/02	Zinini, N.; Guesnet J.-L.	1999	Asulam Na+ salt - NMR, IR, MS and UV-visible spectra United Phosphorus Limited Report No.: R006753 Rhone Poulenc Agro, France GLP, Unpublished ⇒ CA 2.5.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.1/03	Zinini, N.; Guesnet J.-L.	1999	Asulam Na+ salt - NMR, IR, MS and UV-visible spectra United Phosphorus Limited Report No.: R006753 Rhone Poulenc Agro, France GLP, Unpublished ⇒ CA 2.5.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.5.1/04	Zinini, N.; Guesnet J.-L.	1999	Asulam Na+ salt - NMR, IR, MS and UV-visible spectra United Phosphorus Limited Report No.: R006753 Rhone Poulenc Agro, France GLP, Unpublished ⇒ CA 2.5.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.2/01	Anon.	2008	IMPCA Methanol Reference Specifications International Methanol Producers & Consumers Association Not GLP, Published	N	N	-	Published	
CA 2.5.2/02	Plyler, E.K.	1952	Infrared Spectra of Methanol, Ethanol, and n-Propanol Journal of Research of the National Bureau of Standards, Vol. 48 No. 4, pp 281-286 Not GLP, Published	N	N	-	Published	
CA 2.5.2/03	Chu, P.M. *et al*	1999	The NIST Quantitative Infrared Database J. Res. Natl. Inst. Stand. Technol. 104, 59 (1999), pp 59-81 Not GLP, Published	N	N	-	Published	
CA 2.5.2/04 - CA 2.5.2/07	Anon.	-	Spectral Database for Organic Compounds, SDBS, Web site: http://sdbs.riodb.aist.go.jp (National Institute of Advanced Industrial Science and Technology, October 2013) Not GLP, Published	N	N	-	Published	

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
CA 2.5.2/08	Diepenhorst, P.C.	2008a	UV/Visible and IR-spectra of [redacted] United Phosphorus Limited Report No.: DL 08-024 Cerexagri B.V., The Netherlands GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.2/09	Marshall, I.	2008	Evaluation of Spectroscopic Properties of [redacted] United Phosphorus Limited Report No.: SEL/2983/1 Selcia Ltd., UK GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.5.2/10	Vohra, Y.	2012c	Method Validation for of Asulam Sodium (50% w/v) Aqueous Concentrate Grade Active Ingredient and its Associated Impurities United Phosphorus Limited Report No.: 228-2-12-4962 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.6/01	Françon, B.	1999b	Asulam sodium water and solvent solubility United Phosphorus Limited Report No: R006749 Battelle Europe, Battelle-Institut e.V.; GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.7/01	Françon, B.	1999b	Asulam sodium water and solvent solubility United Phosphorus Limited Report No: R006749 Battelle Europe, Battelle-Institut e.V.; GLP, Unpublished ⇒ CA 2.6/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.8/01	Françon B.	1999c	Asulam sodium n-octanol/water partition coefficient United Phosphorus Limited Report No.: R006755 Battelle Europe, Battelle-Institut e.V.; GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.1/01	Gohdes, M.	1989	Hydrolysis of ^{14}C-asulam in buffered aqueous solutions United Phosphorus Limited Report No.: R000015 Hazleton Laboratories America Inc. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.2/01	Mills, E.A, Simmonds, M.B..	2003	[^{14}C]-asulam: aqueous photolysis and quantum yield at pH9 and pH4 United Phosphorus Limited Report No.: C031419 Battelle AgriFood Ltd. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.2/02	Mills, E.A.	2007	Asulam: [^{14}C]-Aqueous Photolysis and Quantum Yield in Buffers at pH 4 and 9. United Phosphorus Limited Report No.: OU/07/008 Battelle UK Ltd. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.3/01	Mills, E.A, Simmonds, M.B..	2003	[^{14}C]-asulam: aqueous photolysis and quantum yield at pH9 and pH4 United Phosphorus Limited Report No.: C031419 Battelle AgriFood Ltd. GLP, Unpublished ⇒ CA 2.9.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.9.3/02	Mills, E.A.	2007	Asulam: [^{14}C]-Aqueous Photolysis and Quantum Yield in Buffers at pH 4 and 9. United Phosphorus Limited Report No.: OU/07/008 Battelle UK Ltd. GLP, Unpublished ⇒ CA 2.9.2/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.3/03	Lowden, P.	2007a	Asulam: estimation of environmental photolytic half-life in water (model calculation according to Frank and Kloepffer) United Phosphorus Limited Report No.: OU/07/009A Battelle UK Ltd. Non GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.3/04	Lowden, P.	2007b	Calculated theoretical lifetime in the top layer of aqueous systems and the real lifetime of asulam (GC Solar) United Phosphorus Limited Report No.: OU/07/009B Battelle UK Ltd. Non GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.9.4/01	Françon, B.	1999d	Asulam sodium - pH and dissociation constant United Phosphorus Limited Report No.: R006747 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.9.4/02	Brekelmans, M.J.C.	1999	Statement on the Determination of the Dissociation Constant(s) of Asulam in Water United Phosphorus Limited Report No.: 254082 Notox B.V., The Netherlands GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.10/01	Van der Gaauw, A.	2001	Estimation of the degradation of asulam by photo-oxidation in air United Phosphorus Limited Report No.: C011468 RCC Ltd. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.11.1/01	van Helvoirt, J.A.M.W.	1993a	Determination of the flammability of Asulox 80 SG (EXP04507) United Phosphorus Limited Report No.: R002281 NOTOX B.V. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.11.2/01	van Helvoirt, J.A.M.W.	1993b	Determination of the ability for self-heating of Asulox 80 SG (EXP04507) (modified Bowes-Cameron cage test) Report No.: R002282 NOTOX B.V. Study No.: 107639 NOTOX B.V. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.11.2/02	Maarsingh, P.	2008	Autoflammability of asulam SG according to EC method A.16 United Phosphorus Limited Report No.: DL 08-023 Cerexagri B.V., Development Laboratory, The Netherlands GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 2.11.2/03	Brachet, A.	2008b	Statement for asulam sodium technical material United Phosphorus Limited Battelle Report No.: P-72-09-01 Battelle Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.13/01	Smeykal, H.	2001	Explosive properties asulam (EXP04507A) United Phosphorus Limited Report No.: C013870 Siemens Axiva GmbH & Co. GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.14/01	Françon, B.	1999a	Asulam sodium - physical properties United Phosphorus Limited Report No.: R006751 Battelle Europe, Battelle-Institut e.V. GLP, Unpublished ⇒ CA 2.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 2.15/01	Tran Thanh Phong, J.	1999	Asulam Sodium - oxidizing properties United Phosphorus Limited Report No.: R006745 Safety Process Laboratory GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 3.7/01	Anon.	2013	Safety data sheet: Asulam Sodium technical solution United Phosphorus Limited Report No.: not applicable Not GLP, Published	N	N	-	UPL	

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
CA 3.8.1/01	Le Gren, I.	2004	Asulam Sodium: incineration as a safe means of disposal and pyrolytic behaviour under controlled conditions United Phosphorus Limited Report No.: C041487 Bayer CropScience Non GLP, unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product - Asulox

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 2.1/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.1/02	Uceda, L., Le Gren, I.	1999	EXP04668A - Stability after 2 years storage at ambient temperature United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.2.1/01	Fillion, J.	1997	Determination of the flash point, the auto-flammability and the explosion properties of EXP04668A United Phosphorus Limited Report No.: C031112	N	Y	Data protection is claimed in accordance with	UPL	

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
			Rhone Poulenc Industrialisation, France GLP, Unpublished			Article 59 of Regulation (EC) No 1107/2009		
CP 2.2.2/01	Le Gren, I.	2004	Assessment of the oxidising properties Asulox(R) Code: AE F074383 00 SL33 A1 or EXP04668A United Phosphorus Limited Report No.: C041640 Bayer CropScience, France Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.3.1/01	Fillion, J.	1997	Determination of the flash point, the auto-flammability and the explosion properties of EXP04668A United Phosphorus Limited Report No.: C031112 Rhone Poulenc Industrialisation, France GLP, Unpublished ⇒ CP 2.2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.3.3/01	Fillion, J.	1997	Determination of the flash point, the auto-flammability and the explosion properties of EXP04668A United Phosphorus Limited Report No.: C031112 Rhone Poulenc Industrialisation, France GLP, Unpublished ⇒ CP 2.2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.4.2/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.4.2/02	Uceda, L.,	1999	EXP04668A - Stability after 2 years storage at ambient	N	Y	Data protection is	UPL	

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
	Le Gren, I.		temperature United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/02			claimed in accordance with Article 59 of Regulation (EC) No 1107/2009		
CP 2.5.1/01	Uceda, L., Le Gren, I.	2001	EXP04668A Determination of kinematic viscosity at 40 deg C United Phosphorus Limited Report No.: C014413 Aventis CropScience, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.5.3/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.6.1/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.6.1/02	Bos, M.W.S.	2010	Asulox 400 SL (asulam 400 g/l) asulam and impurity content in 2 years shelf-life and accelerated storage stability test United Phosphorus Limited Report No.: DL 08-021 –Final report Cerexagri B.V., The Netherlands	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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, Unpublished ⇒ Document J, CP 2.7.1/01			1107/2009		
CP 2.7.1/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.7.1/02	Bos, M.W.S.	2010	Asulox 400 SL (asulam 400 g/l) asulam and impurity content in 2 years shelf-life and accelerated storage stability test United Phosphorus Limited Report No.: DL 08-021 –Final report Cerexagri B.V., The Netherlands GLP, Unpublished ⇒ CP 2.6.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.7.1/03	Bos, M.W.S.	2008	Asulox 400 SL (asulam 400 g/l) asulam and impurity content in 2 years shelf-life and accelerated storage stability test United Phosphorus Limited Report No.: DL 08-021 Cerexagri B.V., The Netherlands GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.7.4/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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 2.1/01					
CP 2.7.5/01	Uceda, L., Le Gren, I.	1999	EXP04668A - Stability after 2 years storage at ambient temperature United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.7.5/02	Bos, M.W.S.	2010	Asulox 400 SL (asulam 400 g/l) asulam and impurity content in 2 years shelf-life and accelerated storage stability test United Phosphorus Limited Report No.: DL 08-021 –Final report Cerexagri B.V., The Netherlands GLP, Unpublished ⇒ CP 2.6.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.7.5/03	Bos, M.W.S.	2008a	Asulox 400 SL (asulam 400 g/l) asulam and impurity content in 2 years shelf-life and accelerated storage stability test United Phosphorus Limited Report No.: DL 08-021 Cerexagri B.V., The Netherlands GLP, Unpublished Confidential information ⇒ CP 2.7.1/03	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.8.2/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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 2.1/01			1107/2009		
CP 2.8.2/02	Uceda, L., Le Gren, I.	1999	EXP04668A - Stability after 2 years storage at ambient temperature United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.8.2/03	Simons, J.P.	2000	Determination of the persistent foaming of Asulam-400 g/l SL United Phosphorus Limited Report No.:0010018.00 Brabant Chemie B.V., The Netherlands GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.8.4/01	Uceda, L., Le Gren, I.	1997	Determination of physico-chemical characteristics and storage stability EXP04668A United Phosphorus Limited Report No.: C031109 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 2.8.4/02	Uceda, L., Le Gren, I.	1999	EXP04668A - Stability after 2 years storage at ambient temperature United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.3 Further Information

*details to be added during Peer review

Active substance

None.

Plant Protection Product – 'Asulox'

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 4.1.1/01	Juergensen, Ch	2004	SL: Asulam 400 g/litre Packaging: 1 L, 5 L, 10 L, 20 L and 25 L United Phosphorus Limited Report No.: C042781 Bayer CropScience, IOP, Monheim, Germany; Non GLP, unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 4.1.3/01	Uceda, L., Le Gren, I.	1999	EXP04668A - Stability after 2 years storage at ambient temperature. United Phosphorus Limited Report No.: R004779 Rhone-Poulenc Agro, France GLP, Unpublished ⇒ CP 2.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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 4.2/01	Richards, K.	2008	Asulox Tank Cleaning Study Agro Chemex Ltd Document No: ACE-08-226 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 4.2.2/01	Friessleben, R.	2002	Instructions/ recommendations for tank cleaning after application of Asulox Code: EXP04668A United Phosphorus Limited Report No.: C019817 Aventis CropScience GmbH Non GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 4.4/01	Anon.	2013	Safety data sheet Asulox United Phosphorus Limited Report No.: not applicable Non GLP, Published	N	N	-	UPL	
CP 4.7/01	Le Gren, I.	2004b	Asulam Sodium: incineration as a safe means of disposal and pyrolytic behaviour under controlled conditions United Phosphorus Limited Report No.: C041487 Bayer CropScience Study No.: C041487 Bayer CropScience Non GLP, unpublished ⇒ CA 3.8.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.4 Method of Analysis

*details to be added during Peer review

Active substance

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
CA 4.2.1/01	Vohra, Y.	2012c	Method Validation for of Asulam Sodium (50% w/v) Aqueous Concentrate Grade Active Ingredient and its Associated Impurities United Phosphorus Limited Report No.: 228-2-12-4962 JAI Research Foundation, India GLP, Unpublished ⇒ Document J, CA 2.5.2/03	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.2.2/01	Anon.	1997	Analysis of technical and formulated pesticides (Asulam 240) CIPAC Handbook; 1997; Vol. H; Page 26 to 32 United Phosphorus Limited Report No.: C018849 GLP not applicable, Published	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	Published	
CA 4.2.3/01	Vohra, Y.	2012c	Method Validation for of Asulam Sodium (50% w/v) Aqueous Concentrate Grade Active Ingredient and its Associated Impurities JAI Research Foundation, India United Phosphorus Limited Report No.: 228-2-12-4962 GLP, Unpublished Confidential information ⇒ CA 2.5.2/10	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 4.2.3/02	Vohra, Y.	2012b	Determination of methanol content in five representative production batches of asulam sodium (50% w/v) aqueous concentrate United Phosphorus Limited Report No.: 258-2-12-4963 JAI Research Foundation, India GLP, Unpublished Confidential information ⇒ CA 1.11.1/02	**N**	**Y**	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/01	Chambers, J.G., Jarrett, H.	2013a	Asulam and Major Metabolites: Method Validation in Spinach United Phosphorous Limited Report No. NZ/13/005 Battelle UK Ltd., United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/02	Nüßlein, F.	2004a	Method 00831 for the determination of residues of Asulam and Malonyl-asulam in/on spinach by HPLC-MS/MS United Phosphorus Limited Report No.: C043214 Bayer CropScience Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/03	Chambers, J.G.	2009	Determination of Residues of Asulam and Malonyl-asulam in Spinach – Independent Laboratory Validation United Phosphorus Limited Report No.: NZ/08/004 Battelle UK Ltd. United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/04	Nüßlein, F.	2004b	Method 00843 for the determination of residues of malonylsulfanilamide (AE 1422567) in/on spinach (leaves and washings) by HPLC-MS/MS	N	Y	Data protection is claimed in accordance with Article 59 of	UPL	

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 Phosphorus Limited Report No.: C043661 Bayer CropScience Germany GLP, Unpublished			Regulation (EC) No 1107/2009		
CA 4.3.1.1/05	Chambers, J.G.	2007	Determination of Residues of Asulam and Malonyl Asulam in Spinach - Method Validation United Phosphorous Limited Report No. OU/07/003 Battelle UK Ltd. United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/06	Meyer, M.	2007	Determination of Asulam and Malonyl-Asulam in Spinach – Independent Laboratory Validation of the Method United Phosphorous Limited Report No. IF-07/00957539 SGS Institut Fresenius GmbH, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/07	Chambers, J.G., Jarrett, H.	2013b	Asulam and Malonyl Asulam: Method Validation in Crops United Phosphorous Limited Report No. NZ/13/002 Battelle UK Ltd. United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/08	Bardel, P.	2004	Enforcement method 00831 modification M001 for the determination of residues of asulam and malonyl-asulam in/on barley (grain), sunflower (seeds) and orange (fruit) by HPLC-MS/MS. United Phosphorus Limited Report No.: C042941 Bayer CropScience Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.1/09	Brumhard, B.	2004	Independent Laboratory Validation of Method 00831/M001 for the Determination of Residues of Asulam and Malonyl-Asulam in/on Matrices of Plant Origin by HPLC-MS/MS	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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 Phosphorus Limited Report No.: C042966 Bayer CropScience Germany GLP, Unpublished			1107/2009		
CA 4.3.1.1/10	Bacher, R.	2003a	Assessment and Possible Validation of the Multi-Residue Enforcement Method DFG S19 (Extended Revision) for the Determination of Asulam in Spinach United Phosphorus Limited Report No.: C030948 PTRL Europe, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.3.1.2/01	Bacher, R.	2003b	Validation of a Common Moiety Method for the Determination of Asulam and its Metabolite Acetylsulfanilamide in Foodstuffs of Animal Origin United Phosphorus Limited Report No.: C030961 PTRL Europe, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.4/01	Bourgade, C., Rosati, D.	2001	Asulam and its metabolite sulfanilamide (RPA023385): Analytical method in soil United Phosphorus Limited Report No.: R016385 Aventis CropScience S.A. France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.4/02	Chambers, J.G., Jarrett, H.	2013c	Asulam and Sulfanilamide: Method Validation in Soil United Phosphorus Limited Report No. NZ/13/004 Battelle UK Ltd., United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.5/01	Bourgade, C., Kieken, J.-L.	2000	Asulam : Analytical method for the determination of residues in drinking water and surface water United Phosphorus Limited Report No.: R006759 Aventis CropScience S.A. France	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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, Unpublished			1107/2009		
CA 4.5/02	Chambers, J.G., Jarrett, H.	2013d	Asulam and Sulfanilamide: Method Validation in Surface Water and Drinking Water United Phosphorus Limited Report No. NZ/13/003 Battelle UK Ltd., United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 4.7/01	Bacher, R.	2001	Analytical Method for the determination of Asulam in Air United Phosphorus Limited Report No.: C015406 PTRL Europe, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 1.11.1/03	Desai	2014a	Method validation for of asulam sodium aqueous concentrate grade active ingredient and its associated impurities United Phosphorus Limited Report No.: 258-2-12-8132 JAI Research Foundation, India GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product – Asulox

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 5.2.1/01	Anon.	1997	Analysis of technical and formulated pesticides (Asulam 240) United Phosphorus Limited Report No.: C018849 CIPAC 240.011/TC/(M)/3, CIPAC 240.011/SL/(M)/3 Non GLP, Published	N	N	-	Published	
CP 5.2.1/02	Bos, M.W.S.	2008b	Validation of SOP DLA-267.2 "Asulam technical and formulations asulam and [redacted] content by HPLC" Cerexagri B.V., The Netherlands United Phosphorus Limited Report No.: DL 08-020 GLP, Unpublished ⇒ Document J CP 5.2.4/03	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 5.2.1/03	Diepenhorst, P.C.	2008b	Validation of SOP DLA-267.1 "Asulam-sodium technical and formulations determination of active ingredient by HPLC" Cerexagri B.V., The Netherlands United Phosphorus Limited Report No.: DL 07-073 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 5.2.1/04	Bos, M.W.S.	2010a	Revalidation of SOP DLA-267.2 "Asulam technical and formulations asulam and [redacted] content by HPLC" Cerexagri B.V., The Netherlands United Phosphorus Limited Report No.: DL 10-014 GLP, Unpublished ⇒ Document J CP 5.2.4/04	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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 5.2.4/01	Bos, M.W.S.	2008c	Validation of SOP DLA-267.3 "Asulam technical and formulations determination of methanol content by headspace GC-FID" Cerexagri B.V., The Netherlands United Phosphorus Limited Report No.: DL 08-025 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 5.2.4/02	Bos, M.W.S.	2010b	Revalidation of SOP DLA-267.3 "Asulam technical and formulations determination of methanol content by headspace GC-FID" Cerexagri B.V., The Netherlands United Phosphorus Limited Report No.: DL 10-013 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 5.2.4/03	Bos, M.W.S.	2008b	Validation of SOP DLA-267.2 "Asulam technical and formulations asulam and [redacted] content by HPLC" United Phosphorus Limited Report No.: DL 08-020 Cerexagri B.V., The Netherlands GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 5.2.4/04	Bos, M.W.S.	2010a	Revalidation of SOP DLA-267.2 "Asulam technical and formulations asulam and [redacted] content by HPLC" United Phosphorus Limited Report No.: DL 10-014 Cerexagri B.V., The Netherlands GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.5 Toxicology and Metabolism

*details to be added during Peer review

Active substance

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
CA, 5.1.1/01	[redacted]	1989	Asulam biokinetics and metabolism in the male and female rat [redacted] GLP, Unpublished **Study required to elucidate ADME of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.1.1/02	[redacted]	1995	Asulam - Tissue distribution and kinetic study in the rat [redacted] GLP, Unpublished **Study required to elucidate tissue distribution and kinetics of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.1.3/01	[redacted]	1989	Asulam biokinetics and metabolism in the male and female rat [redacted] GLP, Unpublished **Study required to elucidate ADME of the test article** ⇒ CA 5.1.1/01	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.2.1/01	[redacted]	1987a	[redacted] Acute oral toxicity study in the rat [redacted]	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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] GLP, Unpublished **Study required to determine acute oral toxicity of the test article**			1107/2009		
CA, 5.2.1/02	[redacted]	1988	Acute peroral (rat) and percutaneous (rabbit) toxicity studies Asulam sodium salt [redacted] GLP, Unpublished **Study required to determine acute oral /dermal toxicity of the test article from a difference source**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.2.2/01	[redacted]	1987b	FR 1398/1: Acute percutaneous toxicity study in the rat [redacted] GLP, Unpublished **Study required to determine acute dermal toxicity of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.2.2/02	[redacted]	1988	Acute peroral (rat) and percutaneous (rabbit) toxicity studies Asulam sodium salt [redacted] GLP, Unpublished **Study required to determine acute oral /dermal toxicity of the test article from a difference source** ⇒ CA 5.2.1/02	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA,	[redacted]	1988	Asulam (sodium salt) - Acute dust aerosol inhalation toxicity	Y	Y	Data protection is claimed	UPL	

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
5.2.3/01	[redacted]		test in rats [redacted] GLP, Unpublished **Study required to determine acute inhalatory toxicity of the test article**			in accordance with Article 59 of Regulation (EC) No 1107/2009		
CA, 5.2.4/01	[redacted]	1987a	FR 1398/1: Acute dermal irritation/corrosion test in the rabbit [redacted] GLP, Unpublished **Study required to determine acute dermal irritation potential of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.2.5/01	[redacted]	1987b	FR 1398/1: Acute eye irritation/corrosion test in the rabbit [redacted] GLP, Unpublished **Study required to determine acute ocular irritation potential of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.2.6/01	[redacted]	1987c	FR 1398/1: Delayed contact hypersensitivity study in guinea-pigs [redacted] GLP, Unpublished **Study required to determine skin sensitisation potential of the test article**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA	[redacted]	1989a	Eight-week range-finding dietary toxicity study in mice	Y	Y	Data protection is claimed	UPL	

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
5.3.2.1/01			[redacted] GLP, Unpublished **Study required to provide information for dose selection for the chronic mouse study**			in accordance with Article 59 of Regulation (EC) No 1107/2009		
CA, 5.3.2.2/01	[redacted]	2000	Asulam: 90-day toxicity study in the rat by dietary administration [redacted] GLP, Unpublished **Study required to assess the sub-chronic toxicity of the test article in the rat**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.3.3/01	[redacted]	1980	Asulam: six month oral toxicity study in beagles [redacted] Not GLP, Unpublished **Study required to assess the sub-chronic toxicity of the test article in the dog**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.3.4/01	[redacted]	2004	52-week toxicity study by oral route (gavage) in beagle dogs (asulam) [redacted] GLP, Unpublished **Study required to assess the chronic toxicity of the test article in the dog**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 5.3.7/01	[redacted]	1989b	21-day repeated dose dermal toxicity study in rabbit [redacted] GLP, Unpublished **Study required to assess the sub-acute dermal toxicity of the test article in the rabbit**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.4.1/01	van der Wijngaard, M.J.M	2008	Bacterial reverse mutation test with Asulam United Phosphorus Limited report no.: not assigned TNO, Zeist, The Netherlands. Unpublished report No.: V7905/05 GLP, Unpublished **Study required to elucidate *in vitro* genotoxic potential in bacteria from an alternative source**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.4.1/02	Tendulkar, K.E.	2013	Bacterial reverse mutation test of asulam sodium (50% w/v) aqueous concentrate using *Salmonella typhimurium* United Phosphorus Limited report no.: not assigned Jai Research Foundation, India Unpublished report No.: 481-1-06-6691 GLP, Unpublished **Study required to elucidate *in vitro* genotoxic potential in bacteria from an alternative source**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009		
CA 5.4.2/01	Galloway, S.M. & Myhr, B.C.	1984	Mutagenicity Evaluation of Asulam Technical (dried) Batch : PN 85, in an in vitro cytogenetic assay measuring chromosome aberration frequencies in human lymphocytes Litton Bionetics, Inc., Maryland, USA Unpublished report no.: 20990 Company report No.: R001262 GLP, Unpublished **Study required to elucidate *in vitro* clastogenic potential in**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
			mammalian cells					
CA, 5.4.3/01	Steenwinckel, M-J. S.T.	2009	Gene mutation test at the TK-locus of L5178Y cells with Asulam United Phosphorus Limited report no.: not assigned TNO, Zeist, The Netherlands. Unpublished report No.: V7903/02 GLP, Unpublished **Study required to elucidate *in vitro* gene mutation potential in mammalian cells**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.4.4/01	[redacted]	2004	AE F102789 00 SG80 A102 (project asulam) micronucleus-test on the male mouse [redacted] GLP, Unpublished **Study required to assess the *in vivo* genotoxic potential of the test article in the rat**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.5.2/01	[redacted]	1981	Asulam - toxicity and tumorigenicity in prolonged dietary administration to rats and addendum to final report [redacted] Not GLP, Unpublished **Study required to assess the chronic/carcinogenic potential of the test article in the rats**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
	[redacted]	1981	Asulam - toxicity and tumorigenicity in prolonged dietary	Y	Y	Data protection is claimed	UPL	

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]		administration to rats [redacted] Not GLP, Unpublished **Study required to assess the chronic/carcinogenic potential of the test article in the rats**			in accordance with Article 59 of Regulation (EC) No 1107/2009		
	[redacted]	1987	Background data related to [redacted] Asulam - toxicity and tumorigenicity in prolonged dietary administration to rats [redacted]	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.5.3/01	[redacted]	1992	2-year dietary oncogenicity study in mice [redacted] GLP, Unpublished **Study required to assess the chronic/carcinogenic potential of the test article in mice**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
	[redacted]	1996	[redacted] historical control selected neoplastic data. Male CD-1 mouse – [redacted]. 2 year studies [redacted]	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.6.1/01	[redacted]	1981	Asulam: two generation reproduction study in the rat [redacted]	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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] Not GLP, Unpublished **Study required to assess reproductive toxic potential of the test article**			1107/2009		
CA, 5.6.10/01	[redacted]	1982	Asulam: teratology study in the rat [redacted] GLP, Unpublished **Study required to assess developmental toxic potential of the test article in the rat**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.6.11/01	[redacted]	1981	Asulam: tetratogenicity study by the oral route in the rabbit [redacted] GLP, Unpublished **Study required to assess developmental toxic potential of the test article in a second species (rabbit)**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.8/01	[redacted]	2011	[redacted]: Acute oral toxicity in the rat – fixed dose method [redacted] GLP, Unpublished **Study required to assess the acute toxicity of the metabolite**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.8/02	[redacted]	2011	[redacted]: Seven day repeated dose oral (gavage) range-finding study in the rat [redacted]	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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] GLP, Unpublished **Range-finder study required to assess the toxicity of the metabolite**					
CA 5.8/03	[redacted]	2012	[redacted]: twenty-eight day repeated dose oral (gavage) toxicity study in the rat [redacted] GLP, Unpublished **Study required to assess the sub-acute toxicity of the metabolite**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.8/04	May, K.	2011	[redacted] Bacterial reverse mutation test Huntingdon Life Sciences, Suffolk, UK Unpublished report no.: YRK0016 Company report No.: not assigned GLP, Unpublished **Study required to elucidate *in vitro* genotoxic potential in bacteria of the metabolite**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.8/05	Brown, R.W.	2012	[redacted] L5178Y TK+/- mouse lymphoma assay Harlan Laboratories Ltd., Derbyshire, UK Unpublished report no.: 41101395 Company report No.: not assigned GLP, Unpublished **Study required to elucidate *in vitro* clastogenic potential in mammalian cells of the metabolite**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.8/06	Morris, A. & Lacey, F.E.	2012	Chromosome aberration test in human lymphocytes *in vitro* Harlan Laboratories Ltd., Derbyshire, UK Unpublished report no.: 41101392	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No	UPL	

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
			Company report No.: not assigned GLP, Unpublished **Study required to elucidate *in vitro* clastogenic potential in mammalian cells of the metabolite**			1107/2009		
CA 5.8/07	Bowen, D.E	2011	Sulphanilamide: Toxicological relevance as a metabolite of the active substance asulam JSC International, North Yorkshire, UK Unpublished report no.: UPL 10/01 Company report No.: not assigned Non-GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 5.9.1/01	Jana, S	2013	Medical surveillance statement United Phosphorus Limited, West Bengal, India Non-GLP, Unpublished Confidential information	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 5.10.2/01	Doerge, D.R., Decker, C.J.	1994	Inhibition of peroxidase-catalyzed reactions by Arylamines: mechanism for the anti-thyroid action of sulfamethazine Division of Biochemical Toxicology, National Center for Toxicological Research, Jefferson, USA & Burroughs Wellcome Co., Research Triangle Park, North Carolina, USA *Chemical Research & Toxicology*, **7**, pp 164-169 Not GLP, published	Y	N	-	Public	
CA, 5.10.2/02	Capen, C.C.	1998	Correlation of mechanistic data and histopathology in the evaluation of selected endpoints of the endocrine system Department of Veterinary Biosciences, The Ohio State University, Ohio, USA; *Toxicology Letters*; **102-103**; pp 405 to 409 Not GLP, published	Y	N	-	Public	
CA, 5.10.2/0	McClain, R.M.	1995	Mechanistic considerations for the relevance of animal data on thyroid neoplasia to human risk assessment	Y	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
3			Hoffmann-La Roche. Inc, Department of Toxicology and Pathology, New Jersey, USA *Mutation Research*, **333**, pp 131-142 Not GLP, published					
CA, 5.10.2/04	Poirer, L.A., Doerge, D.R., Gaylor, D.W., Miller, M.A., Lorentzen, R.J., Casciano, D.A., Kadlubar, F.F., Schwetz, B.A.	1999	An FDA review on sulfamethazine toxicity Division of Molecular Epidemiology, NCTR, Arkansas, USA *Regulatory Toxicology & Pharmacology*, **30**, pp 217-222 Not GLP, published	Y	N	-	Public	

Plant Protection Product – 'Asulox'

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, 7.1.1/01	[redacted]	2002a	AE F074383 00 SL33 A103 (EXP 04668 A): Acute oral toxicity in rats [redacted] GLP, Unpublished **Study conducted to support formulation**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 7.1.2/01	[redacted]	2002b	AE F074383 00 SL33 A103 (EXP 04668 A) - acute dermal toxicity in rats [redacted] GLP, Unpublished **Study conducted to support formulation**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 7.1.4/01	[redacted]	2002c	AE F074383 00 SL33 A103 (EXP 04668 A): Acute dermal irritation in rabbits [redacted] GLP, Unpublished **Study conducted to support formulation**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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, 7.1.5/01	[redacted]	2002d	AE F074383 00 SL33 A103 (EXP 04668 A): Acute eye irritation in rabbits [redacted] GLP, Unpublished **Study conducted to support formulation**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 7.1.6/01	[redacted]	2003	AE F074383 00 SL33 A103 (EXP 04668 A): Skin sensitisation test in guinea pigs (modified Buehler test: nine applications) [redacted] GLP, Unpublished **Study conducted to support formulation**	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 7.3.3/01	Odin-Feurtet, M.	2006	Asulox® *In-vitro* dermal absorption study using human skin Bayer CropScience, Sophia Antipolis, France Unpublished report no.: SA 06280 Company report no.: M-280980-01-1 GLP, Unpublished **Study conducted to assess the dermal absorption of the representative formulation**	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.6 Residues data

*details to be added during Peer review

Active substance

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
CA 6.1.1/01	Bardel, P.	2004a	Storage stability of asulam in/on spinach (leaves) during freezer storage for 6 months at 5.0 mg/kg fortification level United Phosphorus Limited Report No.: C042938 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.1.1/02	Bardel, P.	2005a	Storage stability of asulam in/on spinach (leaves) during freezer storage for 9 months at 5.0 mg/kg fortification level United Phosphorus Limited Report No.: C046563 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.1.1/03	Sur, R.	2004	Supportive investigations of the storage stability of asulam in spinach. Supplement to: Metabolism of [phenyl-UL-14C]-asulam in spinach after post-emergence application. United Phosphorus Limited Report No.: C043598 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 6.1.1/04	Bardel, P.	2004b	Storage Stability of Malonyl-asulam in/on Spinach (Leaves) during freezer storage for 11 months at 0.5 mg/kg fortification level Code: AE 1388213 United Phosphorus Limited Report No.: C042942 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.1.2/01	Piskorski, R.	2012	[14C]-Asulam: Metabolism in Spinach United Phosphorus Limited Report No.: 20110093 Innovative Environmental Services Ltd, Switzerland GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.1.2/02	Chambers, J.G., Jarrett, H.	2013	Asulam and Major Metabolites: Method Validation in Spinach United Phosphorous Limited Report No. NZ/13/005 Battelle UK Ltd., United Kingdom GLP, Unpublished ⇒ CA 4.3.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.2.1/01	Roohi, A.	2008	[14C]-Asulam: Metabolism, Distribution and Expression of Residue in Spinach Following Pre-emergence Application United Phosphorus Limited Report No.: OU/07/013 Battelle UK Limited, United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 6.2.1/02	Piskorski, R.	2012	[14C]-Asulam: Metabolism in Spinach United Phosphorus Limited Report No.: 20110093 Innovative Environmental Services Ltd, Switzerland GLP, Unpublished ⇒ CA 6.1.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.2.1/03	Lowden, P. and Peatman, M.	2014	The Non-relevance of 'Asulam Dimers' in Asulam Spinach Metabolism Studies Conducted to GAP United Phosphorus Limited Report No. NZ/13/017A Battelle UK Ltd., United Kingdom and JSC International Limited, United Kingdom Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.2.2/01	[redacted]	1990a	A metabolism study with ^{14}C-asulam in laying hens (*Gallus gallus*) [redacted] GLP, Unpublished	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.2.3/01	[redacted]	1990b	A metabolism study with ^{14}C-asulam in dairy goats (*Capra hircus*) [redacted] GLP, Unpublished	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 6.3.1/01	van de Sandt, H.J.	2008	Determination of the decline and magnitude of the residues of asulam and malonyl asulam in/on spinach after one soil application with Asulam 400 g/l SL to spinach in the Netherlands, 2008 + Amendment No. 1 United Phosphorus Limited Report No.: R08-16-NL-09 Research Company for Plant Protection De Bredelaar BV, The Netherlands GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.1/02	van de Sandt, H.J.	2009	Determination of the decline and magnitude of the residues of asulam and malonyl asulam in/on spinach after one soil application with Asulam 400 g/l SL to spinach in the Netherlands, 2008 United Phosphorus Limited Report No.: R08-16-NL-08 Research Company for Plant Protection De Bredelaar BV, The Netherlands GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.1/03	Boileau, G.	2013a	Magnitude of the residues of asulam and its metabolites in spinach (RAC leaves), following one pre-emergence application of Asulox, in 4 harvest trials, northern Europe (northern France and the United Kingdom) – 2013 United Phosphorus Limited Report No.: GBU-13-16062 Staphyt, France GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.2/01	Bardel, P., Oel, D.	2004	Determination of the residues of Asulam in/on spinach after spraying of AE F074383 00 SL33 A1 (400 SL) in the field in	N	Y	Data protection is claimed in	UPL	

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
			Germany and in the Netherlands United Phosphorus Limited Report No.: C032852 Bayer CropScience AG, Germany, GLP, Unpublished			accordance with Article 59 of Regulation (EC) No 1107/2009		
CA 6.3.2/02	Bardel, P.	2004c	Determination of the residues of asulam in/on spinach after spraying of AE F074383 00 SL33 A1 (400 SL) in Spain United Phosphorus Limited Report No.: C042944 Bayer CropScience, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.2/03	Bardel, P.	2004d	Determination of the residues of asulam in/on spinach after spraying of AE F074383 00 SL33 A1 (400 SL) in Great Britain, Belgium and Germany United Phosphorus Limited Report No.: C042946 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.2/04	Bardel, P.	2004e	Determination of the residues of asulam in / on spinach after spraying of AE F074383 00 SL33 A1 (400 SL) in France United Phosphorus Limited Report No.: C043215 Bayer CropScience AG, Germany, GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.3.2/05	Boileau, G.	2013b	Magnitude of the residues of asulam and its metabolites in spinach (RAC leaves and processed fractions), following one post-emergence application of Asulox, in 5 trials (2 harvest and	N	Y	Data protection is claimed in accordance with	UPL	

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
			3 decline), northern Europe (northern France and the United Kingdom) – 2013 United Phosphorus Limited Report No.: GBU-13-16064 Staphyt, France GLP, Unpublished			Article 59 of Regulation (EC) No 1107/2009		
CA 6.5.1/01	Fitzmaurice, M.J.	2003a	[^{14}C]-Asulam: Nature of the Potential Residue in the Products of Industrial Processing or Household Preparation United Phosphorus Limited Report No.: C033605 Battelle AgriFood Ltd., United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.5.1/02	Fitzmaurice, M.J.	2003b	[^{14}C]-AE 1388213: Nature of the Potential Residue in the Products of Industrial Processing or Household Preparation United Phosphorus Limited Report No.: C034761 Battelle AgriFood Ltd., United Kingdom GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.5.3/01	Bardel, P., Hoffmann, M.	2004a	Determination of the residues of asulam in/on spinach in processing products from spinach (leaves, cooking leaves, cooking water, washing water) after spraying of AE F074383 00 SL33 A1 (400 SL) in Germany United Phosphorus Limited Report No.: C042948 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA 6.5.3/02	Bardel, P., Hoffmann M.	2004b	Determination of the residues of asulam in/on spinach in processing products from spinach (leaves, cooking leaves, cooking water, washing water) after spraying of AE F074383 00 SL33 A1 (400 SL) in Germany United Phosphorus Limited Report No.: C043216 Bayer CropScience AG, Germany GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.5.3/03	Boileau, G.	2013b	Magnitude of the residues of asulam and its metabolites in spinach (RAC leaves and processed fractions), following one post-emergence application of Asulox, in 5 trials (2 harvest and 3 decline), northern Europe (northern France and the United Kingdom) – 2013 United Phosphorus Limited Report No.: GBU-13-16064 Staphyt, France GLP, Unpublished ⇒ CA 6.3.2/05	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 6.6.2/01	Jesudason , P.A.	1996	A confined rotational crop study with ^{14}C-asulam using radishes (*Raphanus sativus*), spinach (*Spinacia oleracea*), and wheat (*Triticum aestivum*) United Phosphorus Limited Report No.: R003651 Rhone-Poulenc Ag Company, USA GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product

None.

A.7 Environmental Fate and Behaviour

*details to be added during Peer review

Active substance

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.1.1/01	Yeomans, P.	2000a	[^{14}C]-Asulam sodium: aerobic route and rate of degradation Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/171-D2142 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.1/02	Yeomans, P., Swales, S.	2003a	[^{14}C]-Asulam sodium: Characterisation and degradation kinetic of a putative soil metabolite Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 1849/20-D2149 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.1.1/03	Roohi, A., Mackenzie, E.	2009a	[^{14}C]-Asulam Sodium: Route and Rate of Degradation in Soil at 20°C Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/010 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.1/04	Völkel, W.	2000a	Degradation of [^{14}C]-Asulam in One Soil Incubated under Aerobic Conditions. RCC Ltd., Itingen, Switzerland RCC Report No. 689940 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.1/05	Lowden, P.	2013a	Recalculation of the Distribution of Extractable Radioactivity in An Asulam Soil Study following the Demonstration that One HPLC Peak is an Artefact. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. NZ/10/003A Not GLP, Unpublished	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.1/06	Lowden, P.	2013b	Composition of an 'unknown' soil metabolite in Asulam soil degradation studies. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. NZ/10/003B Not GLP, Unpublished	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.1.2/01	Yeomans, P.	2003a	[^{14}C]-Asulam sodium: Metabolism in flooded soil Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 1849/21-D2149 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.2/02	Morlock, G.	2009a	Degradation of Asulam (^{14}C- labelled) in One Soil under Anaerobic Conditions at 20 °C in the Dark. eurofins-GAB GmbH, Niefern-Oschelbronn, Germany Eurofins Report No. SOS-00327 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.3/01	Yeomans ,P., Swales, S.	2000a	[^{14}C]-Asulam sodium: photodegradation on a soil surface Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/172-D2142 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.1.3/02	Doble, M., Oddy, A.	2007a	[^{14}C]-Asulam: Soil Photolysis Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/007 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.2.1/01	Yeomans, P.	2000a	[^{14}C]-Asulam sodium: aerobic route and rate of degradation Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/171-D2142 GLP, Unpublished ⇒ CA 7.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.1/02	Yeomans, P., Swales, S.	2003a	[^{14}C]-Asulam sodium: Characterisation and degradation kinetic of a putative soil metabolite Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 1849/20-D2149 GLP, Unpublished ⇒ CA 7.1.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.1/03	Roohi, A., Mackenzie, E.	2009a	^{14}C]-Asulam Sodium: Route and Rate of Degradation in Soil at 20°C Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/010 GLP, Unpublished ⇒ CA 7.1.1/03	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.2.1/04	Völkel, W.	2000a	Degradation of [^{14}C]-Asulam in One Soil Incubated under Aerobic Conditions. RCC Ltd., Itingen, Switzerland RCC Report No. 689940 GLP, Unpublished ⇒ CA 7.1.1/04	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 7.2.1/05	Hardy, I.A.J.	2013a	Kinetic Modelling Analysis of Asulam and Sulphanilamide Rate of Degradation Studies to Derive Modelling Endpoints. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. NZ/10/003C Not GLP, Unpublished	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 7.2.1/06	Hardy, I.A.J.	2011a	Kinetic Modelling Analysis of Asulam and Sulphanilamide Rate of Degradation and Asulam Water / Sediment Studies to Derive Modelling Endpoints. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/10/001 Not GLP, Unpublished	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.2.2/01	Yeomans, P.	2000a	[^{14}C]-Asulam sodium: aerobic route and rate of degradation Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/171-D2142 GLP, Unpublished ⇒ CA 7.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.2/02	Roohi, A. Mackenzie, E.	2009a	[^{14}C]-Asulam Sodium: Route and Rate of Degradation in Soil at 20°C Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/010 GLP, Unpublished ⇒ CA 7.1.1/03	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.3/01	Oddy, A.M.	2003a	[^{14}C]-Sulfanilamide: Rate of degradation in three soils at 20 degrees Celsius Battelle AgriFood Ltd., Ongar, Essex, England Battelle Report No. CX/02/023 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.3/02	Mackenzie, E., Roohi, A.	2008a	[^{14}C]-Sulfanilamide: Rate of Degradation in Three Soils at 20°C. Battelle AgriFood Ltd, Ongar, Essex, England Battelle Report No. OU/07/011 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.2.3/03	Hardy, I.A.J.	2013a	Kinetic Modelling Analysis of Asulam and Sulphanilamide Rate of Degradation Studies to Derive Modelling Endpoints. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. NZ/10/003C Not GLP, Unpublished ⇒ CA 7.2.1/05	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.3/04	Hardy, I.A.J.	2011a	Kinetic Modelling Analysis of Asulam and Sulphanilamide Rate of Degradation and Asulam Water / Sediment Studies to Derive Modelling Endpoints. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/10/001 Not GLP, Unpublished ⇒ CA 7.2.1/06	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.4/01	Yeomans, P.	2003a	[^{14}C]-Asulam sodium: Metabolism in flooded soil Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 1849/21-D2149 GLP, Unpublished ⇒ CA 7.1.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.2.4/02	Morlock, G.	2009a	Degradation of Asulam (^{14}C- labelled) in One Soil under Anaerobic Conditions at 20 °C in the Dark. eurofins-GAB GmbH, Niefern-Oschelbronn, Germany Eurofins Report No. SOS-00327 GLP, Unpublished ⇒ CA 7.1.2/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.5/01	Yeomans, P.	2003a	[^{14}C]-Asulam sodium: Metabolism in flooded soil Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 1849/21-D2149 GLP, Unpublished ⇒ CA 7.1.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.2.5/02	Morlock, G.	2009a	Degradation of Asulam (^{14}C- labelled) in One Soil under Anaerobic Conditions at 20 °C in the Dark. eurofins-GAB GmbH, Niefern-Oschelbronn, Germany Eurofins Report No. SOS-00327 GLP, Unpublished ⇒ CA 7.1.2/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.4.1/01	Lewis, C.J.	1999a	[^{14}C]-Asulam-sodium Adsorption/desorption in five soil and one sediment. Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/169-D2142 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.4.1/02	Völkel, W.	2011a	[^{14}C]-Asulam: Adsorption/Desorption on Soil. Innovative Environmental Services (IES), Witterswill, Switzerland IES Report No.: 152 01 013 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.4.1/03	Lowden, P., Mahay, N.	1999a	[^{14}C]-Asulam: Aged desorption from four soils Rhone-Poulenc Agriculture Ltd, Ongar, Essex, England Rhone-Poulenc Report No. 15957 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.4.2/01	Simmonds, M.B.	2002a	[^{14}C]-Sulfanilamide: Adsorption to and desorption from four soils Battelle-AgriFood Ltd, Ongar Essex, England Battelle Report No.: CX/02/022 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.4.2/02	Oddy, A, Brett, R	2008a	[^{14}C]-Sulfanilamide: Adsorption to and Desorption from Four Soils. Battelle AgriFood Ltd, Ongar, Essex, England Battelle Report No. OU/07/012 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.4.3/01	Reeves, G.L., England, D.A., Savage, E.A.	1988a	Herbicides: Asulam-[^{14}C]: Leaching study with four soils Rhone-Poulenc Agriculture Ltd, Ongar, Essex, England Rhone-Poulenc Report No. D.Ag. 1118 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.4.5/01	Reeves, G.L., England, D.A., Savage, E.A.	1988a	Herbicides: Asulam-[^{14}C]: Leaching study with four soils Rhone-Poulenc Agriculture Ltd, Ongar, Essex, England Rhone-Poulenc Report No. D.Ag. 1118 GLP, Unpublished ⇒ CA 7.4.3/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.5/01	Gohdes, M.	1989a	Hydrolysis of ^{14}C-Asulam in buffered aqueous solutions Hazleton Laboratories America Inc., Madison, Wisconsin, USA United Phosphorus Limited Report No.: R000015 Hazleton Report No. HLA 6224-122 GLP, Unpublished ⇒ CA 2.9.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.6/01	Mills, E.A, Simmonds, M.B	2003	[^{14}C]-asulam: aqueous photolysis and quantum yield at pH9 and pH4 Battelle AgriFood Ltd, Ongar, Essex, England United Phosphorus Limited Report No.: C031419 Battelle Report No. CX/02/057 GLP, Unpublished ⇒ CA 2.9.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.6/02	Mills, E.A.	2007	Asulam: [^{14}C]-Aqueous Photolysis and Quantum Yield in Buffers at pH 4 and 9. Battelle UK Ltd, Ongar, Essex, England Battelle report No. OU/07/008 GLP, Unpublished ⇒ CA 2.9.2/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.6/03	Mills, E.A.	2009a	Asulam: [^{14}C]-Aqueous Photolysis at pH 4 and 9: Identification of Photolytic Degradates. Battelle UK Ltd, Ongar, Essex, England Battelle report No. OU/08/001 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.6/04	Lowden, P.	2007a	Asulam: Estimation of environmental photolytic half-life in water (model calculation according to Frank and Klöepffer) Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/009A Not GLP, Unpublished ⇒ CA 2.9.3/03	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.6/05	Lowden P.	2007b	Calculated theoretical lifetime in the top layer of aqueous systems and the real lifetime of asulam (GC Solar) Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/07/009B Not GLP, Unpublished ⇒ CA 2.9.3/04	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.6/06	Mills, E.A., Caine, J.	2004a	[^{14}C]-Asulam: Aqueous photolysis in natural water Battelle UK Ltd, Ongar, Essex, England Battelle Report No. .: CX/04/047 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.7/01	Mead, C.	1999a	Assessment of ready biodegradability CO_2 evolution test Asulam (RPA 096125) Safepharm Laboratories Ltd, Derby, Derbyshire, England Safepharm Report No. 238/047 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.7/02	Feil, N.	2008	Ready Biodegradability of Asulam in a Manometric Respirometry Test. Institut für Biologische Analytik und Consulting IBACON GmbH, Rossdorf, Germany IBACON Report No.: 39851163 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.8.3/01	Purser, D.	1998a	[^{14}C]-Asulam: Degradation and retention in water-sediment systems Covance Laboratories Ltd, Harrogate, North Yorkshire, England Covance Report No. 68/156-D2142 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.8.3/02	Willems, H	1997a	Degradation of asulam in aerobic aquatic environment. Notox 's-Hertogenbosch, Notox Report No. 187717 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 7.8.3/03	Hardy, I.A.J.	2008c	Asulam: Kinetic Modelling Analysis of Data from Water/Sediment Study. Battelle UK Ltd, Ongar, Essex, England Battelle Report No. NZ/08/001A GLP, Unpublished	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA 7.8.3/04	Hardy, I.A.J	2011a	Kinetic Modelling Analysis of Asulam and Sulphanilamide Rate of Degradation and Asulam Water / Sediment Studies to Derive Modelling Endpoints Battelle UK Ltd, Ongar, Essex, England Battelle Report No. OU/10/001A GLP, Unpublished ⇒ CA 7.2.1/06	N	N	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.10/01	Van der Gaauw, A.	2001a	Estimation of the degradation of asulam by photo-oxidation in air RCC Ltd, Itingen, Switzerland RCC Report No. 802168 Not GLP, Unpublished ⇒ CA 2.10/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.12/01	Thorvardarson A., Kristiansen, H.	1992a	Sampling of groundwater from 'Feddet' Plantation, Denmark, for the determination of Asulam Geological Survey of Denmark (GSD) Geochemical Division GSD Report No. No.: Jour.no. 072-051 Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.12/02	Norris, F.A.	1992a	A small scale prospective groundwater monitoring study with asulam-sodium, the active ingredient of asulox® brand herbicide, applied to sugar cane and to turf Rhone-Poulenc Ag Company, Research Triangle Park, North Carolina, USA Rhone-Poulenc Report 41121, GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Data Point	Author(s)	Year	Title Company, Report No Source (where different from company) GLP or GEP status (where relevant), Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	*Previous evaluation
CA, 7.12/03	Gustafson, D.I.	1993a	Drinking water monitoring for residues of asulam in high-use areas of the United States Rhone-Poulenc Agro. Co., El Dorado Hills, California, USA Rhone-Poulenc Report No.: 41293 GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 7.12/04	Boussemart, M.J.	1994a	Asulam monitoring programme in North Yorkshire Rhone-Poulenc Agriculture, Ongar, Essex, England Rhone-Poulenc Report No.: 200636 Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product – 'Asulox'

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 9.4/01	M. Patel, I.A.J. Hardy and P. Lowden	2013a	Predicted Environmental Concentrations of Asulam and its Major Metabolite Sulphanilamide in Soil, Following Application to Spinach or Flower-bulbs of the Formulation ASULOX® Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017A Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 9.5/01	M. Patel, I.A.J. Hardy and P. Lowden	2013a	Predicted Environmental Concentrations of Asulam and its Major Metabolite Sulphanilamide in Soil, Following Application to Spinach or Flower-bulbs of the Formulation ASULOX® Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017A Not GLP, Unpublished ⇒ CP 9.4/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 9.6/01	M. Patel, I.A.J. Hardy and P. Lowden	2013c	Predicted Environmental Concentrations of Asulam and the metabolite Sulphanilamide in Groundwater (PEC_{GW}) Following Application to Spinach or Flower-bulbs. Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017C Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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 9.6.2/01	M. Patel, I.A.J. Hardy and P. Lowden	2013c	Predicted Environmental Concentrations of Asulam and the metabolite Sulphanilamide in Groundwater (PEC_{GW}) Following Application to Spinach or Flower-bulbs. Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017C Not GLP, Unpublished ⇒ CP 9.6/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 9.7/01	M. Patel, I.A.J. Hardy and P. Lowden	2013b	Predicted Environmental Concentrations in Surface Water (PEC_{SW}) and Sediment (PEC_{Sed}) for Asulam and Its Metabolites Following Application to Spinach or Flower-bulbs. Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017B Not GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 9.8/01	M. Patel, I.A.J. Hardy and P. Lowden	2013b	Predicted Environmental Concentrations in Surface Water (PEC_{SW}) and Sediment (PEC_{Sed}) for Asulam and Its Metabolite Following Application to Spinach or Flower-bulbs. Generated by Battelle UK Ltd, Chelmsford, Essex UK Report No.: NZ/13/017B Not GLP, Unpublished ⇒ CP 9.7/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.8 Ecotoxicology

*details to be added during Peer review

Active substance

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
CA, 8.1.1/01	[redacted]	2000	Asulam sodium salt: Acute oral toxicity (LD_{50}) to the bobwhite quail [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.1.2/01	[redacted]	1970a	Asulox - Subacute (5 days) toxicity in mallard ducklings [redacted] Not GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.1.3/01	[redacted]	1970b	Asulox - Subacute (5 days) toxicity study in pheasant chicks [redacted] Not GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.1.4/01	[redacted]	2003	Asulam sodium salt: A reproduction study with Japanese quail, amended final report [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.1.4/02	[redacted]	2003	Asulam: A study to evaluate egg shell quality with the Japanese quail [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.1.4/03	Thompson, H.M.	2004	Expert Opinion (EBAWX004): Impact of asulam on eggshell quality Central Science Laboratory United Phosphorus Limited Report No.: C039956 Not GLP, Unpublished	n/a	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.2.1.1/01	[redacted]	1988a	Acute toxicity of Asulam technical to rainbow trout (*Salmo gairdneri*) under static conditions [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.2.1.2/01	[redacted]	2000	Asulam Sodium salt - Acute toxicity to Bluegill Sunfish (*Lepomis macrochirus*) under static-renewal conditions [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.2.2.1/01	[redacted]	1997a	Asulam - Fish, juvenile growth test - 28 Days - under flow-through conditions [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.2.3.1/01	[redacted]	1981	Asulam - Absorption, metabolism and elimination studies with fish [redacted] Not GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.3.1.1/01	Manning, C.S.	1988b	Asulam technical acute toxicity to the water flea (*Daphnia magna*) under flow-through conditions Hunter/ESE Inc. Hunter/ESE Inc. Study No.: ESE 89325-0200-2130 United Phosphorus Limited Report No.: R001268 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.3.2.1/01	McElligott, A.	1997b	Asulam - Chronic toxicity (21-day) to Daphnids under static renewal conditions Rhone-Poulenc Agro Rhone-Poulenc Agro Study No.: SA 97050 United Phosphorus Limited Report No.: R005639 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.3.2.1/02	Herrmann, Voigt, Benz	1992	Toxicity of Asulox® 80SG to water-fleas (*Daphnia magna*) (20 days) Ökolimna Ökolimna Study No.: 11/90/286 United Phosphorus Limited Report No.: R001808 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.4/01a	Hoberg, J.R.	1992a	Asulam sodium - Toxicity to the freshwater green alga, *Selenastrum capricornutum* Springborn Laboratories, Inc. Springborn Laboratories, Inc. Study No.: 92-8-4391 United Phosphorus Limited Report No.: R003656 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.4/01b	Dorgerloh, M.	2004a	Non-GLP recalculation report: Influence of Asulam-sodium on the growth of green alga, *Pseudokirchnerellia subcapitata* (formerly named *Selenastrum capricornutum*) Bayer CropScience AG originally reported from Springborn Laboratories, Inc. Study No.: 92-8-4391 United Phosphorus Limited Report No.: C040380 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.4/02a	Hoberg, J.R.	1992b	Asulam sodium - Toxicity to the freshwater alga, *Anabaena flos-aquae* Springborn Laboratories, Inc. Springborn Laboratories, Inc. Study No.: 92-10-4457 United Phosphorus Limited Report No.: R003654 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.4/02b	Dorgerloh, M.	2004b	Non-GLP recalculation report: Influence of Asulam-sodium on the growth of the freshwater alga, *Anabaena flos-aquae* Bayer CropScience AG originally reported from Springborn Laboratories, Inc. Study No.: 92-10-4457 United Phosphorus Limited Report No.: C040383 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.4/03	Hoberg, J.R.	1992c	Asulam sodium - toxicity to the freshwater diatom, *Navicula pelliculosa* Springborn Laboratories, Inc. Springborn Laboratories, Inc. Study No.: 92-12-4519 United Phosphorus Limited Report No.: R003655 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.4/04a	Hoberg, J.R.	1992d	Asulam sodium - toxicity to the marine diatom, *Skeletonema costatum* Springborn Laboratories, Inc. Springborn Laboratories, Inc. 92-8-4395 United Phosphorus Limited Report No.: R003657 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.4/04b	Dorgerloh, M.	2004c	Non-GLP recalculation report: influence of asulam-sodium on the growth of the marine diatom, *Skeletonema costatum*. Bayer CropScience AG originally reported from Springborn Laboratories, Inc. Study No.: 92-8-4395 United Phosphorus Limited Report No.: Report No.: C040376 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.4.1/01	Gosch, H., Sowig, P.	2003	Algal growth inhibition - *Pseudokirchneriella subcapitata* under static testing conditions AE C473799; substance, pure sulfanilamide, metabolite of asulam code: AE C473799 00 1B99 0001 Bayer CropScience GmbH, DEU; Ecotoxicology, Frankfurt United Phosphorus Limited Report No.: C027726 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.5.2/01	Heintze, A.	2002	Assessment of side effects of asulam sodium salt on the larvae of the midge, *Chironomus riparius* with the laboratory test method Arbeitsgemeinschaft GAB GmbH & IFU GmbH Arbeitsgemeinschaft GAB GmbH & IFU GmbH Study No.: 20011081/01-ASCr United Phosphorus Limited Report No.:C030755 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.6/01	Hoberg, J.R.	1992e	Asulam sodium - Toxicity to the duckweed (*Lemna gibba*) Springborn Laboratories, Inc. Springborn Laboratories, Inc. Study No.: 92-9-4397 United Phosphorus Limited Report No.: R003653 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.6.1/01	Juckeland, D.	2011	Effects of Sulfanilamide on *Lemna minor* in growth inhibition test under semi-static test conditions BioChem agrar, GmbH BioChem agrar, GmbH, Study No.: 11 10 48 021 W United Phosphorus Limited Report No.: 11 10 48 021 W GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.7.1/01	Schmitzer, S.	1998	Laboratory testing for toxicity (acute contact and oral LD_{50}) of asulam on honey bees (*Apis mellifera* L.) (Hymenoptera, Apidae) IBACON IBACON Study No.: 3560036 United Phosphorus Limited Report No.: C015416 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.7.2/01	Schmitzer, S.	1998	Laboratory testing for toxicity (acute contact and oral LD_{50}) of asulam on honey bees (*Apis mellifera* L.) (Hymenoptera, Apidae) IBACON GmbH IBACON GmbH Study No.: 3560036 United Phosphorus Limited Report No.: C015416 GLP, Unpublished ⇒ CA 8.7.1/01	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.8.1.1/01	Moll, M., Bützler, R.	2001	Effects of EXP 04668 A on the parasitoid *Aphidius rhopalosiphi* in the laboratory - dose response test IBACON GmbH IBACON GmbH Study No.: 6465001, United Phosphorus Limited No.: C017898 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.1.1/02	Moll, M.	1999a	Effects of EXP04668A on the parasitoid *Aphidius rhopalosiphi* (Hymenoptera, Aphidiidae) in the laboratory IBACON GmbH IBACON GmbH Study No.: 6461001 United Phosphorus Limited Report No.: R006295 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.1.2/01	Goßmann, A.	2001	Effects of EXP 04668 A on the predatory mite *Typhlodromus pyri* in the laboratory - dose response test - IBACON GmbH IBACON GmbH Study No.: 6466063 United Phosphorus Limited Report No.: C017897 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.8.1.2/02	Luehrs, U.	1999a	Effects of EXP04668A on the predatory mite *Typhlodromus pyri* Scheuten (Acari, Phytoseiidae) in the laboratory. IBACON GmbH IBACON GmbH Study No.: 6462063 Rhone-Poulenc Report No.: R006339 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.1.3/01	Schmitzer, S.	2002	Effects of EXP04668A (AE F074383 00 SL33) on the wolf spider *Pardosa spec.* in the laboratory IBACON GmbH IBACON GmbH Study No.: 13502065 United Phosphorus Limited Report No.: C030817 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.1.3/02	Mead-Briggs, M.	1991	An evaluation of the side-effects of Asulox® 80 SG on lycosid spiders University Southampton University Southampton Study No.: RP-91-1 United Phosphorus Limited Report No.: R001634 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.8.1.4/01	Waltersdorfer, A.	2002	Toxicity to the foliage dwelling predator *Chrysoperla carnea* Steph. (Neuroptera, Chrysopidae) in the laboratory Asulam water soluble concentrate Bayer CropScience GmbH Bayer CropScience GmbH Study No.: CW02/017 United Phosphorus Limited Report No.: C028606 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.2.1/01	Moll, M.	1999b	Effects of EXP04668A on the parasitoid *Aphidius rhopalosiphi* (Hymenoptera, Aphidiidae) - extended Laboratory study. IBACON GmbH IBACON GmbH Study No.: 6463002 United Phosphorus Limited Report No.: R007954 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.2.2/01	Luehrs, U.	1999b	Effects of EXP04668A on the predatory mite *Typhlodromus pyri* Scheuten (Acari, Phytoseiidae) - extended laboratory study IBACON GmbH IBACON GmbH Study No.: 6464062 United Phosphorus Limited Report No.: R007956 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.8.2.3/01	Drexler, A.	2002	Effects of EXP04668A on the reproduction of rove beetles *Aleochara bilineata* - Extended laboratory study IBACON GmbH IBACON GmbH Study No.: 13501071 United Phosphorus Limited Report No.: C030818 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.8.2.5/01	Feije, R.	2002	Asulam (EXP 04668 A = AE F074383): An extended laboratory single-dose test to evaluate the effects on survival and reproduction of the predaceous mite *Hypoaspis aculeifer Canestrini* (Acari: Laelapidae) in standard soil (LUFA 2.1) MITOX Trial Management BV MITOX Trial Management BV Study No.: AV011HAE United Phosphorus Limited Report No.: C030819 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.8.2.5/02	Vinall, S.	2011	Sulfanilamide – Laboratory determination of toxicity to the springtail *Folsomia candida* (Collembola, Isotomidae) in an artificial soil substrate Mambo-Tox Ltd Mambo-Tox Ltd Study No.: UP-11-11 United Phosphorus Limited Report No.: UP-11-11 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.9.1/01	Handley, J.W.; Wetton, P.M.	1992	The acute toxicity of asulam sodium to earthworms (*Eisenia foetida*) Safepharm Laboratories Limited Safepharm Laboratories Limited Study No.: 282/234 United Phosphorus Limited Report No.: R001746 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.9.1/02	Sowig, P.	2002	Acute toxicity to earthworms (*Eisenia fetida*) Sulfanilamid substance, pure Code: AE C473799 00 1B99 0001 Bayer CropScience GmbH United Phosphorus Limited Report No.: C023318 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.9.2/01	Luehrs, U.	2000	Effects of ASULAM sodium salt on reproduction and growth of earthworms *Eisenia fetida* (Savigny 1826) in artificial soil IBACON GmbH IBACON GmbH Study No.: 6960022 United Phosphorus Limited Report No.: C010993 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.9.2/02	McCormac, A.	2011	Sulfanilamide – Determination of Chronic (sub-lethal) toxicity to the earthworm *Eisenia fetida* in artificial soil substrate Mambo-Tox Ltd Mambo-Tox Ltd Study No.: UP-11-10 United Phosphorus Limited Report No.: UP-11-10 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.10.1/01	Luscombe, B.M.	1981a	Asulam - Effect on soil micro-organisms: II. studies on soil processes - carbon cycle, mobilization of organic nitrogen, denitrification and enzyme activity May & Baker Ltd. May & Baker Ltd. Study No.: R.Ag.18 United Phosphorus Limited Report No.: R000731 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.10.1/02	Luscombe, B.M.	1981b	Asulam: Effects on soil micro-organisms - III. Studies on soil processes - nitrogen fixation May & Baker Ltd. May & Baker Ltd. Study No.: R.Ag 19 United Phosphorus Limited Report No.: R000733 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.10.1/03	Kölzer, U.	2002	Assessment of the side effects of ASULAM sodium salt on the activity of the soil microflora Arbeitsgemeinschaft GAB GmbH & IFU GmbH Arbeitsgemeinschaft GAB GmbH & IFU GmbH Study No.: 20011081/01-ABMF United Phosphorus Limited Report No.: C021214 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.10.1/04	Schulz, L.	2011	Sulfanilamide – Effects on the activity of soil microflora (Nitrogen transformation test) BioChem agrar, GmbH BioChem agrar, GmbH, Study No.: 11 10 48 021 W United Phosphorus Limited Report No.: 11 10 48 048 N GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.10.2/01	Luscombe, B.M.	1981a	Asulam - Effect on soil micro-organisms: II. studies on soil processes - carbon cycle, mobilization of organic nitrogen, denitrification and enzyme activity May & Baker Ltd. May & Baker Ltd. Study No.: R.Ag.18 United Phosphorus Limited Report No.: R000731 Not GLP, Unpublished ⇒ CA 8.10.1/01	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.10.2/02	Kölzer, U.	2002	Assessment of the side effects of ASULAM sodium salt on the activity of the soil microflora Arbeitsgemeinschaft GAB GmbH & IFU GmbH Arbeitsgemeinschaft GAB GmbH & IFU GmbH Study No.: 20011081/01-ABMF United Phosphorus Limited Report No.: C021214 GLP, Unpublished ⇒ CA 8.10.1/03	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.12/01	Christensen, K.P.	1992	Asulam Sodium - Determination of effects on seed germination, seedling emergence and vegetative vigor of ten plant species Springborn Laboratories, Inc. Springborn Laboratories, Inc. Study No.: 92-9-4431 United Phosphorus Limited Report No.: R003652 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.15/01	Luscombe, B.M., Craven, A.C.C.	1981	ASULAM - Metabolism in and effect on the sewage treatment process May & Baker Ltd. May & Baker Ltd. Study No.: R.Ag 21 United Phosphorus Limited Report No.: R000735 Not GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CA, 8.15/02	Mead, C.	2001	Asulam sodium salt: Assessment of the inhibitory effect on the respiration of activated sewage sludge Safepharm Laboratories Ltd. Safepharm Laboratories Ltd. Study No.: 1392/015 United Phosphorus Limited Report No.: C015300 GLP, Unpublished	N	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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
CA, 8.16.2/01	[redacted]	2012	Diet composition of skylarks (*Alauda arvensis*) in leafy crops during spring and summer [redacted] GLP, Unpublished	Y	Yes	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

Plant Protection Product – 'Asulox'

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, 10.3.2.1/01	[redacted]	2002	AE F074383 00 5L33 A103 (EXP04668A) - Acute oral toxicity in Rats "acute toxic class method" [redacted] GLP, Unpublished ⇒ 7.1.1/01	Y	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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, 10.5.1/01	Moll, M.; Buetzler, R.	2001	Effects of EXP 04668 A on the parasitoid *Aphidius rhopalosiphi* in the laboratory - dose response test – United Phosphorus Limited Report No.: C017898 IBACON GmbH Study No.: 6465001 IBACON GmbH GLP, Unpublished ⇒ 8.8.1.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.1/02	Moll, M.	1999a	Effects of EXP04668A on the parasitoid *Aphidius rhopalosiphi* (Hymenoptera, Aphidiidae) in the laboratory United Phosphorus Limited Report No.: R006295 IBACON GmbH Study No.: 6461001 IBACON GmbH GLP, Unpublished ⇒ 8.8.1.1/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.1/03	Gossmann, A.	2001	Effects of EXP04668A on the predatory mite *Typhlodromus pyri* in the laboratory - dose response test United Phosphorus Limited Report No.: C017897 IBACON GmbH IBACON GmbH Study No.: 6466063 GLP, Unpublished ⇒ 8.8.1.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.1/04	Luehrs, U.	1999a	Effects of EXP04668A on the predatory mite *Typhlodromus pyri* Scheuten (Acari, Phytoseiidae) in the laboratory.	N	Y	Data protection is claimed in accordance with	UPL	

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 Phosphorus Limited Report No.: R006339 IBACON GmbH Study No.: 6462063 IBACON GmbH GLP, Unpublished ⇒ 8.8.1.2/02			Article 59 of Regulation (EC) No 1107/2009		
CP, 10.5.1/05	Schmitzer, S.	2002	Effects of EXP04668A (AE F074383 00 SL33) on the wolf spider *Pardosa* spec. in the laboratory United Phosphorus Limited Report No.: C030817 IBACON GmbH Study No.: 13502065 IBACON GmbH GLP, Unpublished ⇒ 8.8.1.3/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.1/06	Mead-Briggs, M., Thomas, M.	1991	An evaluation of the side-effects of Asulox 80 SG on lycosid spiders United Phosphorus Limited Report No.: R001634, University Southampton, England Study No.: RP-91-1 University Southampton, England GLP, Unpublished ⇒ 8.8.1.3/02	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.1/07	Waltersdorfer, A.	2002	Toxicity to the foliage dwelling predator *Chrysoperla carnea* Steph. (Neuroptera, Chrysopidae) in the laboratory, Asulam watersoluble concentrate 392 g/L United Phosphorus Limited Report No.: C028606 Bayer CropScience GmbH Study No.: CW02/017 Bayer CropScience GmbH	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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, Unpublished ⇒ 8.8.1.4/01					
CP, 10.5.2/01	Moll, M.	1999b	Effects of EXP04668A on the parasitoid *Aphidius rhopalosiphi* (Hymenoptera, Aphidiidae) - Extended Laboratory study and amended final report. United Phosphorus Limited Report Nos.: R007954 and C031135 IBACON GmbH, Rossdorf, DEU; GLP, Unpublished ⇒ 8.8.2.1/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.2/02	Luehrs, U.	1999b	Effects of EXP04668A on the predatory mite *Typhlodromus pyri* Scheuten (Acari, Phytoseiidae) - Extended laboratory study United Phosphorus Limited Report No.: R007956 IBACON GmbH Study No.: 6464062 IBACON GmbH GLP, Unpublished ⇒ 8.8.2.2/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP, 10.5.2/03	Drexler, A.	2002	Effects of EXP04668A on the reproduction of rove beetles *Aleochara bilineata* Extended laboratory study United Phosphorus Limited Report No.: C030818, IBACON GmbH Study No.: 13501071 IBACON GmbH GLP, Unpublished ⇒ 8.8.2.3/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

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, 10.6.6/01	Feije, R.	2002	Asulam (EXP 04668 A = AE F074383): An extended laboratory single-dose test to evaluate the effects on survival and reproduction of the predaceous mite *Hypoaspis aculeifer* Canestrini (Acari: Laelapidae) in standard soil (LUFA 2.1) and amendment United Phosphorus Limited Report No.: C030819 and C038575 MITOX Trial Management BV Study No.: AV011HAE MITOX Trial Management BV GLP, Unpublished ⇒ 8.8.2.5/01	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	
CP 10.8.2.1/01	Arts G.H.P., Belgers J.D.M.	2013	Aquatic macrophyte toxicity tests with asulam United Phosphorus Limited Report Alterra, The Netherlnads Non-GLP, Unpublished	N	Y	Data protection is claimed in accordance with Article 59 of Regulation (EC) No 1107/2009	UPL	

A.9 Efficacy

*details to be added during Peer review

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 6.1-01	Anonymous	1987	Report of products used in spinach for the control of annual dicotyledonous weeds De Bredelaar 1987-I 1987-II 1987-III 1987-IV -, unpublished				Agrichem B.V	
IIIA 6.1-02	van der Heijden, J.C J.	2006	Selectivity testing in spinach with Asulam 400 g/L SL in the Netherlands in 2006 Brabant Chemie B.V 2002.02.021.02.0602 2002.02.021.02.0603 2002.02.021.02.0604 2002.02.021.02.0605 2002.02.021.02.0606 GEP, unpublished				Agrichem B.V	

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 6.1-03	van der Heijden, J.C.J.	2007	Control of weeds in spinach with Asulam 400 g/L SL in the Netherlands in 2006 Brabant Chemie B.V 2002.02.021.02.0632 2002.02.021.02.0633 2002.02.021.02.0634 GEP, unpublished				Agrichem B.V	
IIIA 6.1-04	Martin, J	2011	Determination of efficacy of HBM01 and HBM06 against a range of weeds in Field Spinach, 2 sites in the UK, 2011 Eurofins Agrosciences services S11-02754-01 S11-02754-02 GEP, unpublished				Agrichem B.V	
IIIA 6.1-05	Anonymous	1994	Report of the control of weeds in tulip and hyacinth in the Netherlands in 1994 Agrichem B.V P94-380-Bant P94-380-Oude Tonge P94-380- Noordwijkerhout -, unpublished				Agrichem B.V	

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 6.1-06	van der Heijden, J.C.J	2007	Control of weeds in tulip and lily with Asulam 400 g/l SL in the Netherlands in 2006 Brabant Chemie B.V 2002.02.021.02.0612 2002.02.021.02.0613				Agrichem B.V	
IIIA 6.1-07	van der Heijden, J.C.J	2002	Report of the control of annual weeds with Asulam 400 g/L SL in lily in the Netherlands in 2002 Brabant Chemie B.V 2002.02.021.02.0202 2002.02.021.02.0203 GEP, unpublished				Agrichem B.V	
IIIA 6.1/6.2-08	van der Heijden, J.C.J	2007	Selectivity testing in tulip and lily with Asulam 400 g/l SL in the Netherlands in 2006 Brabant Chemie B.V 2002.02.021.02.0622 2002.02.021.02.0623 2002.02.021.02.0624 2002.02.021.02.0625 GEP, unpublished				Agrichem B.V	

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 6.2-09	Anonymous	1990	Afbroei: onderhoudsbespuiting tegen onkruid ten velde PPO 1499115 -, unpublished				Agrichem B.V	
IIIA 6.2-10	Anonymous	1991	Afbroei: onderhoudsbespuiting tegen onkruid ten velde PPO 1499212 -, unpublished				Agrichem B.V	
IIIA 6.2-11	Anonymous	1993	Stadiumonderzoek bij bollen die te velde met asulam zijn bespoten PPO 1499317 -, unpublished				Agrichem B.V	
IIIA 6.2-12	Anonymous	1994	Invloed van het combineren van asulam met vuur- en luisbestrijding op de opbrengst PPO 3019503 -, unpublished				Agrichem B.V	

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 6.2-13	Anonymous	1995	Afbroei: Invloed van het het combineren van asulam met vuur- en luisbestrijding op de opbrengst PPO 273199508 -, unpublished				Agrichem B.V	
IIIA 6.2-14	Anonymous	1997	Onkruidbestrijding met asulam en metamitron in tulpen PPO 321199701 -, unpublished				Agrichem B.V	
IIIA 6.2-15	Anonymous	1997	Onkruidbestrijding met asulam in tulpen PPO 321199702 -, unpublished				Agrichem B.V	
IIIA 6.2-16	Anonymous	1997	Invloed van het tijdstip van een bespuiting met asulam op de opbrengst en onkruidbestrijding PPO 321199703 -, unpublished				Agrichem B.V	

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 6.2-17	Anonymous	1997	Afbroei: het gebruik van asulam als bodemherbicide in tulpen PPO 321199704 -, unpublished				Agrichem B.V	
IIIA 6.2-18	Anonymous	1997	Afbroei: het gebruik van asulam als bodemherbicide in tulpen PPO 321199705 -, unpublished				Agrichem B.V	
IIIA 6.2-19	Anonymous	1990	Invloed van bespuitingen met MB 9057 in de bollenteelt op de broeikwaliteit PPO 069905A/B -, unpublished				Agrichem B.V	
IIIA 6.2-20	Anonymous	1991	Invloed van bespuitingen met MB 9057 in de bollenteelt op de broeikwaliteit PPO 069905A/B, 699109 -, unpublished				Agrichem B.V	

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 6.2-21	Anonymous	1992	Afbroei: invloed onkruidbestrijding op de opbrengst bij lelies PPO 66199205 -, unpublished				Agrichem B.V	
	Anonymous		Efficacy overview asulam				UPL	
	Van Esbroeck, C.	2014	Efficacy BAD (Asulox)				UPL	