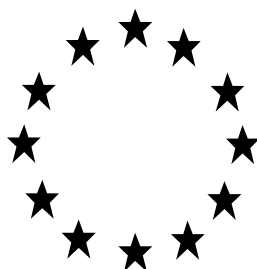


Draft Renewal Assessment Report  
under Regulation (EC) 1107/2009



**CLOPYRALID**

**Volume 2**

RMS: Finland  
Co-RMS: Poland

May 2017

## **Volume 1**

**Level 1: Statement of subject matter and purpose for which this report has been prepared and background information on the application**

**Level 2: Summary of active substance hazard and of product risk assessment**

**Level 3: Proposed decision with respect to the application**

Appendix 1: Guidance documents used in this assessment

Appendix 2: Reference list

## **Volume 2**

**Annex A: List of the tests, studies and information submitted**

## **Volume 3**

**Annex B (Active Substance): Summary, evaluation and assessment of the data and information**

**Annex B.1 (AS): Identity**

Annex B.2 (AS): Physical and chemical properties of the active substance

Annex B.3 (AS): Data on application

Annex B.4 (AS): Further information

Annex B.5 (AS): Methods of analysis

Annex B.6 (AS): Toxicology and metabolism data

Annex B.7 (AS): Residue data

Annex B.8 (AS): Environmental fate and behaviour

Annex B.9 (AS): Ecotoxicology data

## **Volume 3**

**Annex B (Plant Protection Product): Summary, evaluation and assessment of the data and information**

Annex B.1 (PPP): Identity

Annex B.2 (PPP): Physical and chemical properties of the plant protection product

Annex B.3 (PPP): Data on application and efficacy

Annex B.4 (PPP): Further information

Annex B.5 (PPP): Methods of analysis

Annex B.6 (PPP): Toxicology and metabolism data and assessment of risks to humans

Annex B.7 (PPP): Residue data

Annex B.8 (PPP): Environmental fate and behaviour and environmental exposure assessment

Annex B.9 (PPP): Ecotoxicology data and assessment of risks for non-target species

## **Volume 4**

**Annex C: Confidential information and, where relevant, details of any task force formed for the purpose of generating tests and studies submitted**

## **List of Endpoints**

**Version History**

<b>When</b>	<b>What</b>
2017/ May	DRAR- First version submitted to EFSA

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

Data owner: DAS = Dow AgroSciences.

A.1. IDENTITY

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
See Confidential Annex C to the Draft Renewal Assessment Report								

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

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 2.1/1 CA 2.3/2	Madsen, S.	2002	Determination of the Color, Odor, Physical State, And Melting Point of Clopyralid (Purified)  Dow AgroSciences LLC, Indianapolis, Indiana, United States DAS Report No. FAPC023323 19.12.2002 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.1/2 CA 2.1/3	Madsen, S.	2003	Determination of Boiling/Decomposition Point for Clopyralid  Dow AgroSciences LLC, Indianapolis, Indiana, United States DAS Report No. FAPC033231 22.8.2003 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.2/1	Srivastava, R. ; Chakrabarti, A. ; Griffin, K. A.	1991	Vapor Pressure of Clopyralid Measured By The Knudsen-Effusion/ Weight Loss Method.  Dow Chemical Company, Midland, Michigan, United States DAS Report No. ML-AL 91-020325 10.12.1991 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.2/2	Swayze, K.	2000	Calculation of the Henry's Law Constants for Clopyralid from Unbuffered and pH 5, 7, And 9 Buffered Water  Dow AgroSciences LLC, Indianapolis, Indiana, United States DAS Report No. NAFST238 15.3.2000 GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.3/1	Fore, D. W. ; Hamilton, T. D.	1991	Determination of Color, Physical State, Odor and pH of Lontrel T Herbicide.  DowElanco, Midland, Michigan, United States DAS Report No. GH-C 2471 5.3.1991 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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	Elliott, T.	2014	Clopyralid: Determination of UV/Vis Absorption And Molar Absorptivity  ABC Laboratories Inc, Columbia, Missouri, United States DAS Report No. NAFST-14-91 16.4.2015 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).”*)	DAS	Submitted for the purpose of renewal
CA 2.4/1 CA 2.4/2 CA 2.4/3 CA 2.4/4	Madsen, S.; Bridges, J. ; Cooper, D. Godbey, J.; Miller, R.	2002	Determination of the Mass, Infrared, Nuclear Magnetic Resonance, And Ultraviolet/Visible Spectra of Clopyralid  Dow AgroSciences LLC, Indianapolis, Indiana, United States DAS Report No. FAPC013343 22.2.2002 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 CA 2.7/1	Knowles, S. J.	1993	Determination of Water Solubility And Partition Coefficient of Clopyralid (Pure), TSN100042 - 91021/CB  Pharmaco LSR Inc, Eye, Suffolk, United Kingdom DAS Report No. GHE-P-3084 14.4.1993 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.6/1 CA 2.9/1 CA 2.9/2 CA 2.13/1	Comb, A. L. & Madsen, S.	2001	Determination of Solvent Solubility, Flammability, Self- Ignition Temperature, and Oxidising Properties for Clopyralid  Huntingdon Life Sciences Ltd, Suffolk, England DAS Report No. NAFST329 28.11.2001 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.6/1	Swayze, K., Gegel B., Schriber, C.	1989	Solubility of Clopyralid, Clopyralid 2-ethylhexyl ester, and Clopyralid 1-decyl ester in organic Solvents  Agricultural Chemistry R&D Laboratories, Midland, Michigan, United States DAS Report No. GH-C 2238 19.9.1989 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)
CA 2.8/1	Reim, R. E.	1992	Dissociation of Clopyralid  Dow Chemical Company, Midland, Michigan, United States DAS Report No. ML-AL 91-041522 20.3.1992 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.11/1 CA 2.12/1 CA 2.14/1	Dawson, J.	1990	The Determination of Physico-Chemical Properties of Lontrel T (Clopyralid) According To EEC/OECD Guidelines  SafePharm Laboratories Ltd, Derby, Derbyshire, United Kingdom DAS Report No. GHE-P-2183 08.1990 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	in DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.12/1	Dunning, J.	2015	Determination of Surface Tension of Clopyralid - PAI Huntingdon Life Sciences, Occold, Eye Suffolk, England DAS Report No. NAFST-15-101 28.8.2015 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010)."	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.14/1	Huntley, K.	2002	Determination of density for clopyralid.  ABC Laboratories, Inc., Columbia, Missouri, USA Report No.: NAFST595, Date:16.10.2002, GLP Non Published	No	No	N/A	DAS	in DAR (2003)
CP 2.1/1 CP 2.3/1 CP 2.4/1-3 CP 2.5/1-2 CP 2.6/1 CP 2.7/1-2 CP 2.8.2/1 CP 2.8.6/1	Cathie, C.A.	2005	Physical and Chemical Properties of Bofix MCPA Free EC Formulation, GF-1374, 144 g/L Fluroxypyr meptyl, 80 g/L clopyralid and 2.5 g/L florasulam nominal Dow AgroSciences (NZ) Ltd., New Plymouth, New Zealand DAS Report No: 05-683-G 1.11.2005 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.2/1 CP 2.3/3	Turner, B.	2006	Determination of Explosive Properties and Auto-Ignition Temperature for GF-1374  Huntingdon Life Sciences Ltd, Cambridgeshire, UK DAS Report No: NAFST-05-118, DOS/0470 2.3.2006 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal
CP 2.2/2	Comb, A.L.	2012	Determination of Oxidising Properties (liquids) for GF-1374  Huntingdon Life Sciences Ltd, Suffolk, England DAS Report No: NAFST-12-159 2.11.2012 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.5/1 CP 2.8.2/1 CP 2.8.6/1	Koors, B.	2009	Persistent Foaming and Emulsion Stability on GF-1374 - Two Week Accelerated Storage Dow AgroSciences LLC, Indianapolis, Indiana, USA DAS Report No: FOR-09-98 4.12.2009 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal
CP 2.7/1	Elliott, T	2013	GF-1374: Two Week Accelerated Storage Stability in F-HDPE ABC Laboratories, Inc., Columbia, Missouri, USA DAS Report No: NAFST-13-163 3.12.2013 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.7/1 CP 2.8.2/1 CP 2.8.6/1	Kendal, P.A. and Tidswell, J.N.	2005	GF-1374 (80 g/L clopyralid, 2.5g/L florasulam, 100g.a.e/L Fluroxypyr-meptyl) Eight Week 40°C Stability in and Compatibility with PET Bottle Packaging Dow AgroSciences (NZ) Ltd., New Plymouth, New Zealand DAS Report No: 05-676-G 9.12.2005 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal
CP 2.7/3 CP 2.8.2/1  CP 4.4/ 1	Kendall, P.A.	2008	GF-1374 (80g/L clopyralid, 2.5g/L florasulam, 100g.a.e/L fluroxypyr-meptyl) Two Years Ambient Stability in and Compatibility with PET Bottle Packaging Dow AgroSciences (NZ) Ltd., New Plymouth, New Zealand DAS Report No: 05-678-G 19.3.2008 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 2.7/3 CP 2.8.2/1 CP 2.8.6/1  CP 4.4./ 2	Elliott, T.	2015	GF-1374: Two Year Ambient Shelf-life in F-HDPE Packaging Dow AgroSciences LLC, Indianapolis, Indiana, USA DAS Report No: NAFST-13-164 13.6.2016 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal
CP 2.8.2/1 CP 2.8.6/1	Cobb, J.	2014	Persistent Foaming and Emulsion Stability on GF-1374 - Two Year Ambient Study Dow AgroSciences LLC, Indianapolis, Indiana, USA DAS Report No: FOR-09-99 2.6.2014 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CP 2.9/1	Corbett, M. and Hopkins, D.J.	2006	Physical Compatibility of GF-1374 Herbicide with European Cereal Market Tank Mix Partners Dow AgroSciences (NZ) Ltd., New Plymouth, New Zealand DAS Report No: DN0019531 22.2.2006 GLP/GEP (Y/N): N Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

**A.3. DATA ON APPLICATION AND EFFICACY**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title</b> <b>Company Report No.</b> <b>Source (where different from company)</b> <b>Date</b> <b>GLP or GEP status</b> <b>Published or not</b>	<b>Vertebrate</b> <b>study</b> <b>Y/N</b>	<b>Data</b> <b>protection</b> <b>claimed</b> <b>Y/N</b>	<b>Justification if</b> <b>data</b> <b>protection is</b> <b>claimed</b>	<b>Owner</b>	<b>Previous</b> <b>evaluation</b>
			No references					

## A.4. FURTHER INFORMATION

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 4.4/ 1  CP 2.7/3 CP 2.8.2/1	Kendall, P.A.	2008	GF-1374 (80g/L clopyralid, 2.5g/L florasulam, 100g.a.e/L fluroxypyr-meptyl) Two Years Ambient Stability in and Compatibility with PET Bottle Packaging Dow AgroSciences (NZ) Ltd., New Plymouth, New Zealand DAS Report No: 05-678-G 19.3.2008 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal
CP 4.4./ 2  CP 2.7/3 CP 2.8.2/1 CP 2.8.6/1	Elliott, T.	2016	GF-1374: Two Year Ambient Shelf-life in F-HDPE Packaging Dow AgroSciences LLC, Indianapolis, Indiana, USA DAS Report No: NAFST-13-164 13.6.2016 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	DAS	Submitted for the purpose of renewal

## A.5. METHODS OF ANALYSIS

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.1 (a)/1	Liang, Y.Y.	1995	Analytical Method for the Determination of Clopyralid in Technical Grade Clopyralid Produced by the Penta Process  The Dow Chemical Company, Pittsburg, CA DAS Report No. DECO-GP-AR 94-47020A GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	In DAR 2003
CA 4.1.2 (e)/1	██████████.	2002a	Determination of residues of clopyralid in animal tissues by gas chromatography with negative-ion chemical ionization mass spectrometry. ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ Report No.: GH-C 5440 (GRM 02.14), Date: 19.04.2002, GLP, Non Published DAS No. O96	No	No	N/A	DAS	In DAR 2003

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.2 (e)/2	Clements, B.,; Harrington, R.	1997	Determination of Residues of MCPA. Clopyralid and Fluroxypyr in Grass and Cereal Grain and Straw  Dow AgroSciences, LLC, Letcombe, UK Dow AgroSciences Study Number: ERC 97.10 15.10.1997 GLP, Non Published	No	No	N/A	DAS	The study has been evaluated at EU level by Ireland (RMS) in the framework of the Fluroxypyr EU Annex I Renewal (RAR, Oct 2009)
CA 4.1.2 (e)/3	Hastings, M.J.	2002b	Determination of residues of clopyralid on agricultural crops by gas chromatography with negative-ion chemical ionization mass spectrometry. Dow AgroSciences LLC, Indianapolis, Indiana, USA Report No.: GH-C 5439, Date:19.04.2002, GLP, Non Published DAS No. O97	No	No	N/A	DAS	In DAR 2003

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.2 (f)/1 (submitted under CA 8.2.6.2/1)	Hoberg, J. R.	2006	Clopyralid Technical Grade - Growth Inhibition Test with Freshwater Blue Green Alga (Anabaena flos-aquae) Springborn Smithers Laboratories 790 Main Street Wareham, Massachusetts, United States 02571 DAS Report No. 060246 25.9.2006 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.2 (f)/2 (submitted under CA 8.2.6.2/2)	Aufder-heide, J.	2015	Clopyralid Technical: Growth Inhibition Test with the Freshwater Diatom, Navicula pelliculosa ABC Laboratories, Inc. 7200 E. ABC Lane Columbia, Missouri 65202 USA DAS Report No. 140515 15.1.2015 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 4.1.2 (f)/3 (submitted under CA 8.2.7-2)	Banman, C. S., Moore, S.	2015	Clopyralid: Toxicity to the Aquatic Macrophyte, Myriophyllum spicatum SynTech Research Laboratory Services LLC 17745 South Metcalf Avenue Stilwell, Kansas 66085- 9104, USA 17.3.2015 DAS Report No. 140735 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/1	Vogl, E.	2012	Method Validation Study for the Determination of Residues of Clopyralid and Picloram in Agricultural Commodities by LC-MS/MS  ABC Laboratories, Inc., Columbia, Missouri, USA DAS Report No. 120610 21.9.2012 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/2	Austin, R.	2012	<p>Independent Laboratory Validation of Dow AgroSciences Method 120610, "Method Validation Study for the Determination of Residues of Clopyralid and Picloram in Agricultural Commodities by LC-MS/MS"</p> <p>Battelle UK Ltd, Ongar, Essex, United Kingdom DAS Report No. 120614 12.10.2012 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	<p>Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).</p>	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/3		2012	<p>Method Validation Study for the Determination of Residues of Clopyralid in Bovine and Poultry Matrices by Liquid Chromatography with Tandem Mass Spectrometry Detection</p> <p></p> <p>DAS Report No. 120483 17.9.2012 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/4		2012	Independent Laboratory Validation of an Analytical Method for the Determination of Clopyralid in Animal Matrices   DAS Report No. 120484 11.9.2012 GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/5	██████ ██████ ████████	2013	Validation of a Multi-residue Method Following the QuEChERS Sample Preparation Technique for the Determination of Clopyralid in Matrices of Plant and Animal Origin  ██ ████████████████████ 7.10.2013 DAS Report No. 130729 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (a)/6	██████ ██████	2014	Independent Laboratory Validation of a Multi-residue Method Following the QuEChERS Sample Preparation Technique for the Determination of Clopyralid in Matrices of Plant and Animal Origin  ██ ██████ DAS Report No. 130728 25.2.2014 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (b)/1	Vincent, T. P.	2013	<p>Method Validation Study for the Determination of Residues of Clopyralid and Picloram in Soil by LC-MS/MS</p> <p>ABC Laboratories, Inc., Columbia, Missouri, USA DAS Report No. 120612 20.2.2013 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	<p>Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).</p>	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (b)/2	Austin, R., Turner, R.	2014	Independent Laboratory Validation of a Dow AgroSciences Method for the Determination of Residues of Clopyralid and Picloram in Soil by LC-MS/MS  Battelle UK Ltd, Chelmsford, Essex, United Kingdom DAS Report No. 140079 19.5.2014 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (b)/3	Shaffer, S.	2012	<p>Method Validation Study for the Determination of Residues of Clopyralid and Picloram in Drinking Water, Ground Water, and Surface Water by LC-MS/MS</p> <p>ABC Laboratories, Inc., Columbia, Missouri, USA DAS Report No. 120611 4.12.2012 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	<p>Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).</p>	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (b)/4	Austin, R., Turner, R.	2013	<p>Independent Laboratory Validation of Dow AgroSciences Method 120611, "Method Validation Study for the Determination of Residues of Clopyralid and Picloram in Drinking Water, Ground Water, and Surface Water by LC-MS/MS"</p> <p>Battelle UK Ltd, Ongar, Essex, United Kingdom DAS Report No. 120613 5.4.2013 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	<p>Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).</p>	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (c)/1	Bacher, R.	2012	<p>The Development and Validation of a Method for the Analysis of Clopyralid in Air</p> <p>PTRL Europe GmbH, D-89081 Ulm, Germany DAS Report No. 120601 4.10.2012 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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 (d)/1		2014	<p>Development and Validation of an Analytical Method for the Determination of Clopyralid in Body Fluid(s)</p> <p></p> <p>DAS Report No. 130727 9.7.2014 GLP/GEP (Y/N): Yes Published (Y/N): No</p>	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 5.1.1/1	Cathie, C.A.	2005	Validation of a Method for the Determination of Clopyralid, Florasulam and Fluroxypyr meptyl in GF-1374  Dow AgroSciences LTD, New Plymouth, New Zealand DAS-AM-05-004 1.11.2005 GLP/GEP (Y/N): Y Published (Y/N): N	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 5.1.2 (f)/1 (submitted under CP 10.6.2/1)	Eley, R.	2005a; amended 2008	Evaluation of the Phytotoxicity of GF-1374 (Fluroxypyr-1-MHE +Clopyralid+Florasulam, EC) GLP Vegetative Vigour Test - Terrestrial Non Target Plants (Based on OECD Guideline 208 B) North Europe 2005.  AgroChemex Ltd., Aldhams Farm, Manningtree, C011 2NF, UK. Analytical report performed in Huntingdon Life Sciences Ltd., Woolley Road, Alconbury, Huntingdon, Cambridgeshire, PE28 4HS, England Study Number: EA05B2A033 13.12.2005 (analytical report 30.11.2005); amended 27.5.2008 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 5.1.2 (f)/2 (submitted under CP 10.6.2/2)	Eley, R.	2005b; amended 2008	Evaluation of the Phytotoxicity of GF-1374 (Fluroxypyr-1-MHE +Clopyralid+Florasulam, 144+80+2.5 g as/l, EC) GLP Seedling Emergence and Seedling Growth Test –Terrestrial Non Target Plants (Based on OECD Guideline 208 A) North Europe 2005.  AgroChemex Ltd., Aldhams Farm, Manningtree, C011 2NF, UK. Analytical report performed in Huntingdon Life Sciences Ltd., Woolley Road, Alconbury, Huntingdon, Cambridgeshire, PE28 4HS, England Study Number: EA05B2A020 13.12.2005 (analytical report 30.11.2005); amended 27.5.2008 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 5.2(a)/3	██████████ ██████	2010	Validation Report for the Determination of Residues of Fluroxypyr 1-methylheptyl Ester as the Acid Equivalent in Agricultural Commodities and Fluroxypyr in Bovine Milk by High Performance Liquid Chromatography with Tandem Mass Spectrometry  ██████████ DAS Report No. 091171 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Product data submitted with an application under Article 47 of the Regulation (low risk products)	DAS	Additional information

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP 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(a)/4	██████████	2010	Independent Laboratory Validation of a Method for the Determination of Residues of Fluroxypyr 1-methylheptyl Ester as the Acid Equivalent in Agricultural Commodities and Bovine Milk  ██████████ DAS Report No. 101082 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Product data submitted with an application under Article 47 of the Regulation (low risk products)	DAS	Additional information
CP 5.2(c)/3	Shackelford, D.	2009	Validation Report for Method GRM 08.06 - Determination of Residues of Fluroxypyr 1-Methylheptyl Ester and Fluroxypyr and its Major Metabolites in Soil by Liquid Chromatography with Tandem Mass Spectrometry  Dow AgroSciences DAS Report No. 081041 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Product data submitted with an application under Article 47 of the Regulation (low risk products)	DAS	Additional information
CP 5.2(d)/3	Shackelford, D.	2010	Validation Report for the Determination of Residues of Fluroxypyr 1 Methylheptyl Ester, Fluroxypyr and its Major Metabolites in Surface Water, Ground Water and Drinking Water by High Performance Liquid Chromatography with Tandem Mass Spectrometry *AMENDED REPORT*  Dow AgroSciences DAS Report No. 081042 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Product data submitted with an application under Article 47 of the Regulation (low risk products)	DAS	Additional information



<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CP 5.2(d)/4	Austin, R.	2010	Independent Laboratory Validation of a Method for the Determination of Residues of Fluroxypyr 1-Methylheptyl Ester, Fluroxypyr and its Major Metabolites in Surface Water, Ground Water and Drinking Water  CEMAS DAS Report No. 101083 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Product data submitted with an application under Article 47 of the Regulation (low risk products)	DAS	Additional information

## A.6. TOXICOLOGY AND METABOLISM DATA

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.1.1	██████	1975	The Fate Of 3,6-Dichloropicolinic Acid (DOWCO 290) Following Oral Administration in Rats. DAS Study No. NBK 102 GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.1.1	██████	1991	Metabolism of 14C-3,6-Dichloropicolinic Acid in Rats. HWI 6148-115 DAS Study No. HWI 6148-115 ██████ ████████ ███ ██████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.1.2	██████ ██████ ██████████████ ██████ ██████ ██████████████ ██████ ██████	2016	Clopyralid: <i>In Vitro</i> Comparative Metabolism Using Liver Microsomes from F344 Rat and Human Donors DAS study no. 160839 GLP/GEP (Y/N): Yes Published (Y/N): No	N	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	Dow AgroSciences	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.2.1	██████████ ██████████ ██████████ ██████████	1987	Lontrel T Herbicidal Chemical (Penta Process): Acute Oral Toxicity Study in Fischer 344 Rats. DAS Study No. K-038252-033A ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.2.2	██████████ ██████████ ██████████ ██████████	1987	Lontrel T Herbicidal Chemical (Penta Process): Acute Dermal Toxicity Study in New Zealand White Rabbits. DAS Study No. K-038252-033D ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.2.3	██████████ ██████████ ██████████	1987	Lontrel T Herbicidal Chemical (Penta Process): An Acute Aerosol Inhalation Study in Fischer 344 Rats. DAS Study No. K-038252-034 ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.2.3	██████████ ██████████ ██████████	1991	Lontrel T: Acute Inhalation Toxicity Study With Fischer 344 Rats. DAS Study No. K-038252-045 ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.2.4	[REDACTED]	1987	Lontrel T Herbicidal Chemical (Penta Process): Primary Dermal Irritation Study in New Zealand White Rabbits. DAS Study No. K-038252-033B [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.2.5	[REDACTED]	1987	Lontrel T Herbicidal Chemical (Penta Process): Primary Eye Irritation Study in New Zealand White Rabbits. DAS Study No. K-038252-033C [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.2.6	[REDACTED]	1996	Lontrel T (Clopyralid Technical): Delayed Contact Hypersensitivity Study in the Guinea Pig DAS Study No. DES/363 DAS Report No. GHE-T-1150 [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.2.6	[REDACTED]	1987	LONTREL* T Herbicidal Chemical (Penta Process): Dermal Sensitization Potential in the Hartley Albino Guinea Pig [REDACTED] DAS Report No.: K-038252-033E GLP/GEP (Y/N): Y Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.1	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1986	Lontrel T - Toxicity To Rats By Dietary Admixture For 4 Weeks (Final Report) DAS Study No. DWC 463/86108 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.1	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1982	LONTREL* T (DOWCO* 290): Results of a 2-week Dietary Probe Study in B <sub>6</sub> C <sub>3</sub> F <sub>1</sub> Mice [REDACTED] DAS Report No.: HET K-038252-(16) GLP/GEP (Y/N): Y Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.1	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1990	Clopyralid: 13-day Repeated Oral Gavage Study in New Zealand White Rabbits [REDACTED] DAS Report No.: K-038252-040 GLP/GEP (Y/N): Y Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.3.2	[REDACTED]	1983	Dowco 290 Herbicide: Results of A Three-Month Dietary Toxicity Study in Rats. DAS Study No. A2A-054 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.2	[REDACTED]	1973	DOWCO 290 - pesticide: results of a 90 day dietary feeding study in rats. DAS Study No. A2A-030 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.2	[REDACTED]	1983	Dowco 290: Results of A 13-Week Dietary Toxicity Study in B6C3F1 Mice. DAS Study No. A2A-029 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.3.2	[REDACTED]	1984	A 12-Month Oral Toxicity Study of 3,6-Dichloropicolinic Acid in the Beagle Dog. DAS Study No. 81347 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.2	[REDACTED]	1976	DOWCO* 290 Herbicide (3,6-Dichloropicolinic Acid): Results of a Six-month Dietary Feeding Study in Beagle Dogs [REDACTED] DAS Report No.: HET K-38252-(5) GLP/GEP (Y/N): N Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.2	[REDACTED]	1975	180-Day Subacute Toxicity Study in Dogs - DOWCO 290 [REDACTED] DAS Report No.: GH-RC-21 GLP/GEP (Y/N): N Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)
B.6.3.3	[REDACTED]	1990	Clopyralid: probe and 21 day dermal toxicity study in New Zealand White rabbits DAS Study No. K-038252-044 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.4.1	Richold, M.; Jones, E.; Fleming, P.M.	1982	Ames Metabolic Activation Test To Assess The Potential Mutagenic Effect of 3,6-Dichloropicolinic Acid Technical DAS Study No. DWC 339/81801 DAS Report No. GHE-T-041 Huntingdon Research Center Ltd, Huntingdon, Cambridgeshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	N	N		Dow AgroSciences	DAR (2003)
B.6.4.1	Bruce, R. J.; Bhaskar Gollapudi, B.	1987	Lontrel T Herbicidal Chemical (Penta Process): Evaluation in the Ames Salmonella/Mammalian- Microsome Mutagenicity Assay. DAS Study No. K-038252-036 Dow Chemical Company, Freeport, Texas, United States GLP/GEP (Y/N): Yes Published (Y/N): No	N	N		Dow AgroSciences	DAR (2003)
B.6.4.1	██████████ ██████████ ██████████ ██████████	2001	Evaluation of Clopyralid in an <i>In Vitro</i> Chromosomal Aberration Assay Utilizing Rat Lymphocytes <i>DAS Study No. 001155</i> ██ ██████████ <i>GLP/GEP (Y/N): Yes</i> <i>Published (Y/N): No</i>	N	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.4.1	██████████ ██████████ ██████████	1987	Evaluation of Lontrel T Herbicidal Chemical (Penta Process) in the Chinese Hamster Ovary Cell/Hypoxanthine-Guanine-Phosphoribosyl Transferase (CHO/HGPRT) Forward Mutation Assay DAS Study No. K-038252-037 ██ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	N	N		Dow AgroSciences	DAR (2003)
B.6.4.1	██████████ ██████████ ██████████	1985	The evaluation of Lontrel T herbicide in the rat hepatocyte unscheduled DNA synthesis assay DAS Study No. HET K 038252 -031 ██ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	N	N		Dow AgroSciences	DAR (2003)
B.6.4.1	██████████ ██████████ ██████████	1973	In Vitro and Subacute In Vivo Host-mediated Assay for Mutagenesis: Final Report - Compound DOWCO 290 ████████████████████ DAS Report No.: GHE-T-1151 GLP/GEP (Y/N): N Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.4.2	[REDACTED]	1991	Evaluation of Clopyralid in the Mouse Bone Marrow Micronucleus Test. DAS Study No. K-038252-042 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.4.2	[REDACTED]	1973	Acute and subacute in vivo cytogenetic study in rats. Final report - compound DOWCO 290. DAS Study No. GHE-T-1152 [REDACTED] [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.4.3	[REDACTED]	1973	Dominant Lethal Assay for Mutagenesis Final Report - Compound DOWCO 290. DAS Study No. 2421 [REDACTED] [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.5	[REDACTED]	1985	Dowco 290: 2-Year Rat Diet Chronic Toxicity and Oncogenicity Study 1-Year Interim Report. DAS Study No. K-038252-25, part 1 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.5	[REDACTED]	1986	Dowco 290: 2-Year Rat Diet Chronic Toxicity and Oncogenicity Study Final Report. DAS Study No. K-038252-25 (2), part 2 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.5	[REDACTED]	1977	DOWCO 290 (3,6 dichloropicolinic acid): results of a two-year chronic toxicity and oncogenicity study in rats by the dietary route DAS Study No. A2A-052 [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.5	[REDACTED]	1978	Supplemental report on DOWCO 290 (3,6 dichloropicolinic acid): results of a two-year chronic toxicity and oncogenicity study in rats by the dietary route DAS Study No. HET K-038252 (4) [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.5	[REDACTED]	1985	DOWCO 290 (3,6 dichloropicolinic acid): results of a two-year chronic toxicity and oncogenicity study in rats by the dietary route. Supplemental report on the histopathological evaluation of thyroid gland and pituitary gland tissues from female rats in the 50, 15 and 5 mg/kg bw/day groups DAS Study No. HET K-038252 (4) [REDACTED] [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.5	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	1984	Dowco 290: 2-Year Chronic Toxicity and Oncogenicity Study in Mice: 1-year Interim Report DAS Study No. K-038252-24 part 1 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.5	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	1986	Dowco 290: 2-Year Dietary Chronic Toxicity-Oncogenicity Study in Mice (Final report) DAS Study No. K-038252-24 part 2 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.5	██████	1976	18-month Mouse Oncology Study with DOWCO 290 (Powder) ██████████ DAS Report No.: GHR-C-93 GLP/GEP (Y/N): N Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)
B.6.6.1	██████ ██████ ██████████ ██████████ ██████ ██████ ██████ ██████ ██████ ██████	1983	Dowco 290: Two Generation Dietary Reproduction Study in Fischer-344 Rats DAS Study No. K-038252-021 ██ ██████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.6.1	██████ ██████ ██████████	1984	DOWCO 290 herbicide: two generation dietary reproduction study in Fischer 344 rats - supplemental histopathology DAS Study No. K-038252-(21) PT3 ██ ██████ GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.6.2	[REDACTED]	1981	DOWCO 290 - Oral Teratology Study in Fischer 344 Rats. DAS Study No. HET K-38252-(10) [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.6.2	[REDACTED]	1990	Clopyralid: Oral Gavage Teratology Study in New Zealand White Rabbits. DAS Study No. K-038252-039 [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Y	N		Dow AgroSciences	DAR (2003)
B.6.6.2	[REDACTED]	1974	The Effect of DOWCO <sup>®</sup> 290 (3,6-dichloropicolinic Acid) on the Developing Embryo and Foetus of Pregnant Rabbits [REDACTED] DAS Report No.: HET K-038252-(7) GLP/GEP (Y/N): N Published (Y/N): N	Y	N		Dow AgroSciences	DAR (2003)

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.8.2	██████████	1995	Clopyralid An Evaluation of Mammalian Toxicology ██████████ DAS Report No.: None GLP/GEP (Y/N): No Published (Y/N): No	No	No		Dow AgroSciences	DAR (2003)



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.8.2	[REDACTED]	2010	<p>Clopyralid: Assessment of Immunotoxic Potential using the Sheep Red Blood Cell Assay after 28-Day Dietary Exposure to Male F344/DuCrI Rats</p> <p>DAS Study No. 101062, K-038252-132</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP/GEP (Y/N): Yes Published (Y/N): No</p>	Y	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	Dow AgroSciences	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.9.1	Carson, M.; Parsons, T.	1991	Worker Exposure Assessment to LONTREL Herbicide (Letter Report) The Dow Chemical Company DAS Report No.: None GLP/GEP (Y/N): N Published (Y/N): N	N	N		Dow AgroSciences	DAR (2003)
B.6.1.1.	██████████	2005	GF-1374: Acute Oral Toxicity Up and Down Procedure in Rats. DAS Report No. 040251 ████████████████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.1.2.	[REDACTED]	2005	GF-1374: Acute Dermal Toxicity Study in Rats – Limit Test. DAS Report No. 040252 [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.
B.6.1.3.	[REDACTED] [REDACTED] [REDACTED] [REDACTED]	2005	GF-1374: Acute Liquid Aerosol Inhalation Toxicity Study in Fischer 344 Rats. DAS Report No. 041120 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.1.4.	██████████	2005	GF-1374: Primary Skin Irritation Study in Rabbits. DAS Report No. 040254 ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.
B.6.1.5.	██████████	2005	GF-1374: Primary Eye Irritation Study in Rabbits. DAS Report No. 040255 ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) Date GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.6.1.6.	██████████	2005	GF-1374: Dermal Sensitization Study in Guinea Pigs (Magnusson-Kligman Method) DAS Report No. 040253 ████████████████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards.	Dow AgroSciences	Submitted for the purpose of renewal.

**A.7. RESIDUE DATA**

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.1.1/1	Allen, L.	2013	Frozen Storage Stability of Residues of Clopyralid in Crop Matrices DAS Study No. 120939 CEM Analytical Services (CEMAS), North Ascot, Berkshire, UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.1.1/2	Foster, D.R., Blakeslee, B.A., Rutherford, B.S.	1996	Frozen Storage Stability of Clopyralid, 2,4-D in Corn Grain, Straw and Fodder DAS Study No. RES93050.01 DowElanco, Indianapolis, Indiana, US GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.1.1/3	Clements, B, Bolton, A	1996	Determination of the Stability of Clopyralid Residues in Pasture under Frozen Storage Conditions DAS Study No. GHE-P-5350 CEM Analytical Services (CEMAS), North Ascot, Berkshire, UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.1.2/1	████████	2015	Frozen Storage Stability of Clopyralid in Bovine Fat DAS Study No. 120602 ████████████████████ GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.1.2/2	██████ ██████	2004	Frozen Storage Stability of Clopyralid in Beef Muscle, Liver, Kidney, Milk and Chicken Egg DAS Study No. 020120.01 ██ GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.2.1/1	Chapleo, S. ; Caley, C. Y.	2002	The Metabolism of [14C]-Clopyralid in Sugar Beet DAS Study No. GHE-P-9939 Inveresk Research International, Tranent, East Lothian, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.2.1/2	Guo, C.	1996	Metabolism of 14C -Clopyralid in Cabbage DAS Study No. RES95095 DAS Report No. GH-C-4289 ABC Laboratories Inc, Columbia, Missouri, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.2.1/3	Chapleo, S., Caley, C. Y., White, D. E.	2002	The Metabolism of (14C)-Clopyralid in Oilseed Rape DAS Study No. GHE-P 9938 Inveresk Research International, Tranent, East Lothian, UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.2.1/4	Gourlay, V.	2015	Plant uptake of 14C -labelled clopyralid in wheat and oilseed rape under greenhouse conditions DAS Study No. 150297 RLP AgroScience GmbH, 67435 Neustadt a.d. Weinstraße, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.2.2/1	██████ ██ ██████ ██	2014	A Nature of the Residue Study in the Laying Hen with [14C]-Clopyralid DAS Study No. 130906 Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, Indiana 46268 GLP/GEP (Y/N): Yes Published (Y/N): No ██	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.2.3/1	██████ ██████ ██	2015	A Nature of the Residue Study in the Ruminant with [14C]Clopyralid DAS Study No. 130202 ██ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.1/1	Delmotte, R.	2015	Magnitude of the residues of clopyralid in grassland pasture (RAC fresh grass, hay and silage), following one application of GF-1966, Northern and Southern Europe – 2014 DAS Study No. 140653 Lab study No. CES-14-18931 STAPHYT, 23, Route de Moeuvres, 62860 Inchy en Artois, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.1/2	Freeman, J.M.H., Almond, R.H., MCDonald, I.A., Dawson, J., Ellis, S.E., Green, S.L.	1982	Determination of residues of 3,6-dichloropicolinic acid (DOWCO* 290) in grass & vegetable crops treated with FORMAT ** U.K. 1981 DAS Report No GHE-P-912 Huntingdon Research Centre (HRC) U.K. GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.1/3	Osborne, K.A (S Flatt – Student)	1988	Clopyralid residues in grass following application of SHIELD – UK 1987 DAS Study No. RT 51/87 DAS Report No. GHE-P-1881 Agricultural Products Research Development Centre, Letcombe Laboratory, UK GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.1/4	Wood, S.	1995	Residues of clopyralid in grass at intervals following a single application of DOW SHIELD (EF-584), UK – 1994 DAS Study No. R94-09 <sup>a</sup> DAS Report No. GHE-P-3918 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.3.1/5	Wood, S.	1995	Residues of clopyralid in established grassland at intervals following application of DOW SHIELD (EF 584), UK – 1993 DAS Study No. R93-63 DAS Report No. GHE-P-3919 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.1/6	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in pasture at intervals under open field conditions following a single application of LONTREL 100 (EF 1136), Southern France and Spain – 2000 Study No. CEMS-1298 DAS Report No. GHE-P-9369 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.1/7	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in pasture at intervals following a single application of LONTREL 100 (EF 1136), EU Southern Zone – 2001 Study No. CEMS-1545 Report No. GHE-P-9386 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.2/1	Boissinot, J.C.	2015	Magnitude of the residues of clopyralid in spring barley (RAC whole plant, grain and straw), following one application of GF-1966, Northern and Southern Europe – 2014 DAS Study No. 140655 STAPHYT, 23, Route de Moeuvres, 62860 Inchy en Artois, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.2/2	Clements, B.	1997	Residues of fluroxypyr-BPE, clopyralid and MCPA in cereals at harvest following a single application of BOFIX (NEW) EF-1403, France (North and South) – 1996 DAS Study No. R96-138 Huntingdon Research Centre (HRC) U.K. GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.3.2/3	Butler, R.E.	1998	Residues of clopyralid, fluroxypyr and MCPA in Winter Barley at harvest following a single application of BOFIX* BP (EF-1403), UK, 1997 DAS Study No. R97-104 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.3.2/4	Garbay, M.	2005	Determination of residue in Barley for malt and brewery in spring barley in France DAS Study No. S04DAR.BREGG39,JL34 Solevi, Crest, France; IFBM, Vandoeuvre, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.2/5	Garbay, M.	2005	Determination of residue in barley for malt and brewery in winter barley in France DAS Study No. S04DAR.BREGG40,JL35 Solevi, Crest, France; IFBM, Vandoeuvre, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.2/6	Freeman, JMH et al	1982	Effect of Length of Period Between Application of CYRONAL* and Harvest on Residues of 3,6-dichloropicolinic Acid (DOWCO 290**) in Winter Wheat, Winter Barley and Maize – Belgium 1981 DAS Report No. GHE-P-943 Huntingdon Research Centre (HRC) U.K. GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.2/7	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in barley at intervals and at harvest following a single application of LONTREL 100 (EF-1136), EU Northern Zone – 2011 Study No. CEMS-1542 Report No. GHE-P-9383 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.2/8	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in barley at intervals under open field conditions following a single application of LONTREL (EF-1136), UK – 2000 Study No. CEMS-1289 DAS Report No. GHE-P-9360 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.2/9	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in barley at harvest under open field conditions following a single application of LONTREL (EF-1136), UK – 2000 Study No. CEMS-1288 DAS Report No. GHE-P-9359 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.2/10	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in barley at harvest following a single application of LONTREL 100 (EF-1136), EU Southern Zone – 2001 Study No. CEMS-1543 DAS Report No. GHE-P-9384 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.3.2/11	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in barley at intervals under open field conditions following a single application of LONTREL 100 (EF-1136), Southern France and Italy – 2000 Study No. CEMS-1292 DAS Report No. GHE-P-9363 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/1	Pronier, I.	2013	Residues of fluroxypyr-meptyl, clopyralid MCPA-2-ethylhexyl in wheat at intervals and at harvest following a single application of GF-1681. Northern and Southern Zone – 2012 DAS Study No. 14SRFR12R03 SynTech Research France, 613 Route du Bois de Loyse, 71570 La Chapelle de Guinchay, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal



<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.3.3/2	Devine, H.C.	2006	Residues of clopyralid in wheat and process fractions at harvest following a single application of EF-1498, Northern France – 2005 Study No. CEMS-2711 DAS Report No. GHE-P-11274 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/3 Refer to CA 6.3.2/2	Clements, B.	1997	Residues of fluroxypyr-BPE, clopyralid and MCPA in cereals at harvest following a single application of BOFIX (NEW) EF-1403, France (North and South) – 1996 DAS Study No. R96-138 Huntingdon Research Centre (HRC) U.K. GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/4	Butler, R.E.	1998	Residues of clopyralid, fluroxypyr and MCPA in winter wheat at harvest following a single application of BOFIX* BP (EF-1403), Belgium, 1997 DAS Study No. R97-103 Redebel, Belgium GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/5	Garbay, M.	2005	Residue Study with Fluroxypyr and Clopyralid and 2,4-MCPA (Bofix = EF-1498) in or on Wheat in France (North And South); Analyse de Residus de Florasulam, Fluroxypyr, 2,4-MCPA et Clopyralid dans l'Orge, le Ble, la Farine et les Produits Transformés [Analysis of Residues of Florasulam, Fluroxypyr, 2,4-MCPA and Clopyralid in Barley, Corn, Flour and the Processed Products] DAS Study No. S03DAHBOFIX Solevi, Crest, France; IFBM, Vandoeuvre, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/6	Butler, R.E.	1998	Residues of clopyralid, fluroxypyr and MCPA in winter wheat and durum wheat at harvest following a single application of BOFIX* BP (EF-1403), Southern France, 1997 DAS Study No. R97-105 DowElanco Europe, Letcombe, UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/7 Refer to CA 6.3.2/6	Freeman, JMH et al	1982	Effect of Length of Period Between Application of CYRONAL* and Harvest on Residues of 3,6-dichloropicolinic Acid (DOWCO 290**) in Winter Wheat, Winter Barley and Maize – Belgium 1981 DAS Report No. GHE-P-943 Huntingdon Research Centre (HRC) U.K. GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.3/8	Freeman, JMH et al	1984	Clopyralid residues in wheat grain and straw treated with either LONPAR* or LONTREL* 100 from French trials, 1983 DAS Report No. GHE-P-1258 Huntingdon Research Centre (HRC) France GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.3/9	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in wheat at intervals under open field conditions following a single application of LONTREL (EF-1136), UK and Germany – 2000 DAS Study No. CEMS-1287 DAS Report No. GHE-P-9358 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.3/10	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in wheat at intervals following a single application of LONTREL 100 (EF-1136), EU Northern Zone – 2001 DAS Study No. CEMS-1544 DAS Report No. GHE-P-9385 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.3.3/11	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in wheat at intervals under open field conditions following a single application of LONTREL 100 (EF-1136), Southern France and Italy – 2000 DAS Study No. CEMS-1242 DAS Report No. 9351 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.3.3/12	Rawle, N.W., Khoshab, A.	2002	Residues of clopyralid in wheat at harvest under open field conditions following a single application of LONTREL 100 (EF-1136), Greece – 2000 DAS Study No. CEMS-1290 DAS Report No. GHE-P-9361 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Addendum 1 Rapporteur Member State Finland 30.12.2004
CA 6.4.1/1	██████████ ██████████ ██████████ ██████████	1974	Dowco 290 and 2,4-D Chicken Feeding Study DAS Study No. TA-517 ██ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Submitted for the purpose of renewal
CA 6.4.1/2	██████████ ██████████	1975	Residues of Dowco 290 (3,6-dichloropicolinic acid) in Tissues of Chickens Fed the Herbicide DAS Study No. GH-C 819 ██ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.4.1/3	██████ ██	2015	Summary of Clopyralid Livestock Feeding Study: Magnitude of Residue in Eggs, Muscle, Liver and Fat of Laying Hens DAS Study No. 150031 Lab Study No. CEMS-6921 ████████████████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.4.2/1	██████ ██████	1974	Milk Residue Study with Dairy Cows Fed Lontrel Herbicide, Nellite Nematocide and 2,4-D Herbicide: Animal Care, Sampling and Production Records DAS Study No. GH-A 579 ████████████████████ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.4.2/2	██████ ██████	1974	Residues of Dowco 290 (3,6-dichloropicolonic acid) in Milk and Cream from Cows Fed the Herbicide DAS Study No. GH-C 745 ████████████████████ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC
CA 6.4.2/3	██████ ██████	1975	Residues of Dowco 290 (3,6-dichloropicolonic acid) in Bovine Tissues from Calves Fed the Herbicide DAS Study No. GH-C 811 ████████████████████ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.4.2/4	██████ ██	2015	Summary of Clopyralid Livestock Feeding Study: Magnitude of Residue in Milk, Muscle, Liver, Kidney and Fat of Lactating Dairy Cattle DAS Study No. 150030 Lab study No. CEMS-6968 ████████████████████ GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.4.3/1	██████ ██████	1975	Residues of Dowco 290 (3,6-dichloropicolinic acid) in Tissues of Swine Fed the Herbicide DAS Study No. GH-C 874 ████████████████████ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	Yes, evaluated for inclusion to Annex I under Directive 91/414/EEC

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.5.1/1	Adusumilli, H.	2014	Processing Study to Determine the Nature of Residues of 14C -Clopyralid Following the Industrial or Household Preparation DAS Study No. 140574 Dow AgroSciences LLC, Indianapolis, Indiana, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection n claimed Y/N	Justification if data protection is claimed	Owner	Previous assessments
CA 6.5.3/1 Refer to 6.3.3/5	Garbay, M.	2005	Residue Study with Fluroxypyr and Clopyralid and 2,4-MCPA (Bofix = EF-1498) in or on Wheat in France (North And South); Analyse de Residus de Florasulam, Fluroxypyr, 2,4-MCPA et Clopyralid dans l'Orge, le Ble, la Farine et les Produits Transformés [Analysis of Residues of Florasulam, Fluroxypyr, 2,4-MCPA and Clopyralid in Barley, Corn, Flour and the Processed Products] DAS Study No. S03DAHBOFIX Solevi, Crest, France; IFBM, Vandoeuvre, France GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.5.3/2	Devine, H.C.	2006	Residues of clopyralid in wheat and process fractions at harvest following a single application of EF-1498, Northern France - 2005 DAS Study No. GHE-P-11274 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.5.3/3	Devine, H.C.	2006	Residues of clopyralid in spring barley and process fractions at harvest and at intervals following a single application of Lontrel 100 (EF-1136), Southern Europe 2006 DAS Study No. GHE-P-11684 CEM Analytical Services - UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.6.1/1	Yackovich, P. R. ; Lardie, T. S. ; Brink, D. L.	1993	A 10-1/2 Month Rotational Crops Study With 14C - Labeled Clopyralid - MET90080 DAS Study No. GH-C 2992 Dow AgroSciences LLC, Indianapolis, Indiana, United States GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	Submitted for the purpose of renewal
CA 6.6.1/2	Yackovich, P.R.; Lardie T.S.; Miller J.H.	1989	A 125-Day Rotational Crops Study with 14C Labelled Clopyralid DAS Study No. GH-C 2277 DowElanco, Midland, Michigan, USA Published (Y/N): No	No	No	N/A	DAS	Submitted for the purpose of renewal



<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection n claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous assessments</b>
CA 6.6.1/3	Hall, L. R.	2015	14C -Clopyralid: Metabolism in Confined Rotational Crops with a 30-Day Plant-back Interval DAS Study No. 130733 ABC Laboratories, Inc., Columbia, Missouri 65202, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

## A.8. ENVIRONMENTAL FATE AND BEHAVIOUR

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.1.1.1/1 CA 7.1.2.1.1/1	Baloch, R.; Grant, R.	1991	Degradation and metabolism of Clopyralid in Soil under Aerobic Conditions DAS Report No.GHE-P-2398R Agricultural Research and Development Center, DowElanco Limited, Letcombe Laboratory, Letcombe Regis, Wantage, Oxon, U.K. GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.1.1/2 CA 7.7.2.1.1/2	Skinner, W.; Jao, N.; Smith, J. K.	1995	Aerobic Soil Metabolism of [ <sup>14</sup> C]Clopyralid DAS Report No.GHE-C-3598 PTRL West, Inc. 4123-B Lakeside Drive, Richmond, CA 94806 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.1.1/3 CA 7.1.2.1.1/3	Wardrope, L.	2009	The Degradation of (14C)-Clopyralid in Soil Under Aerobic Conditions DAS Report No.808711 Charles River Laboratories, Tranent, East Lothian, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.1.1.2/1 CA 7.1.2.1.3/1	Allan, J.; Lowrie, C. ; Hall, B. E.	2002	The Degradation of C14 Clopyralid in Soil Under Anaerobic Conditions DAS Report No.GHE-P-9563 Inveresk Research International, Tranent, East Lothian, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.1.3/1	Ponte, M.	2014	14C-Clopyralid: Photodegradation on Soil by Xenon lamp DAS Report No.140076 PTRL West, Hercules, California, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						substances (Regulation (EU) No 1141/2010).		
CA 7.1.2.1.1/4	Schubert, S.	2015	Evaluation of kinetic endpoints for clopyralid from laboratory soil degradation studies DAS Report No. 151039 Dow AgroSciences, Milton Park, UK GLP/GEP (Y/N): No Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 7.1.2.2.1/1	Rawle, N.; Yon, D.	2002	The dissipation of clopyralid in soil following a single application of LONTREL (EF-1136), Denmark and the UK – 2000 DAS Report No. GHE-P-9370 CEMAS GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.1.2.2.1/ 2	Rawle, N.; Yon, D.	2002	The dissipation of clopyralid in soil following a single application of LONTREL (EF-1136), Germany and Northern France – 2000 DAS Report No. GHE-P-9371 CEMAS GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.2.2.1/ 3	Kröger, F.	2015	Soil dissipation study with one spring application of GF-1966 (Clopyralid) at three sites to bare soil in Europe in 2013-2015 Eurofins Agrosience Services, Stade, Germany Eurofins Study S13-00312 DAS Study No. 130673 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 7.1.2.2.1/ 4	Robinson, P.	2015	Estimation of kinetic endpoints for clopyralid from soil dissipation studies. Dr Knoell Consult Ltd., Cardiff, UK	No	Yes	Active substance data submitted with an	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			DAS Study No. 150296 GLP/GEP (Y/N): No Published (Y/N): No			application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.1.2.2.1/ 5	Kröger, F.	2016	Soil dissipation study with one spring application of GF-1966 (Clopyralid) at one site to bare soil in South Europe in 2015. Eurofins Agrosience Services, Stade, Germany Eurofins Study S15-02991 DAS Study No. 150672 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.1.2.2.1/ 6	Kröger, F.	2016	Soil dissipation study with one spring application of GF-1966 (Clopyralid) at one site to bare soil in South Europe in . Eurofins Agroscience Services, Stade, Germany Eurofins Study S15-02992 DAS Study No. 150673 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 7.1.2.2.1/ 7	Robinson, P.	2016	Estimation of kinetic endpoints for clopyralid from field soil dissipation studies (Southern Europe). Dr Knoell Consult Ltd., Cardiff, UK	No	Yes	Active substance data submitted with an	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			DAS Study No. 160486 GLP/GEP (Y/N): No Published (Y/N): No			application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.1.3.1.1/1	Reeves, G. L. & Mittelstaedt, W.	2002	Adsorption/Desorption of Clopyralid in Soil: Corrections to Final Report of Study DW 2/92 from August 1993 DAS Report No.GHE-P-9762 Forschungszentrum Julich GmbH, Julich, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.3.1.1/2	Buntain, I., Simmonds, M.	2015	[14C]-Clopyralid: Adsorption to and Desorption from Five Soils DAS Report No.130699 Battelle UK Ltd., Chelmsford, Essex, UK GLP/GEP (Y/N): Yes	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			Published (Y/N): No			(renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.1.4.2/1	Schnöder, F.	2004	[14C] Clopyralid: Leaching in outdoor lysimeters following spring application to oilseed rape – Final report DAS Report No.000136 Covariance Laboratories, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR addendum 1, 2004
CA 7.1.4.2/2	Dust, M., Führ, F.	1994	Degradation and leaching of clopyralid monoethylamine salt after post emergence application of LONTREL 100 to winter rape in German lysimeters DAS Report No.GHE-P-4037 Forschungszentrum Julich GmbH, Julich, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.1.4.2/3	Brumhard, B., Führ, F., Baloch, R.	1994	Behaviour of [2,6 14C] Clopyralid (LONTREL*) in a sandy Pseudogley Braunerde after post-emergence application to sugar beet DAS Report No.GHE-P-2908 Forschungszentrum Julich GmbH, Julich, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.1.4.2/4	Brumhard, B., Baloch, R., Führ, F.	1994	Behaviour of [2,6 14C] clopyralid formulated as LONTREL 100 in Parabraunerde (Orthic Luvisol) after post emergence application to sugar beet lysimeters DAS Report No.GHE-P-2580 Forschungszentrum Julich GmbH, Julich, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.2.1.1/1	Smith-Drake, J. K.	2000	Hydrolysis of 14C Clopyralid in Natural Water And Buffered Water as a Function of pH DAS Report No.000132 Dow AgroSciences LLC, Indianapolis, Indiana, United States GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.2.1.2/1	Concha, M. & Shepler, K.	1994	Photodegradation of [14C] Clopyralid in Buffered Aqueous Solution at pH 7 by Natural Sunlight DAS Report No. ENV 94048 DowElanco, Indianapolis, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.2.1.2/2	Ponte, M.	2014	Direct Aqueous Photodegradation of [14C]Clopyralid in pH 7 Buffer DAS Report No.140077 PTRL West, Hercules, California, USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 7.2.2.1/1	Jenkins, W. R.	1991	LONTREL T: Assessment of its Biodegradability - Modified Sturm Test Life Science Research, Eye, Suffolk, UK DAS Report No. GHE-P-2522 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.2.2.2/1	Ponte, M., Hiler, T.	2015	[14C]Clopyralid: Aerobic Mineralization in Surface Water DAS Report No.140078 PTRL West, Hercules, CA, USA	No	Yes	Active substance data submitted with an application under	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			GLP/GEP (Y/N): Yes Published (Y/N): No			Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 7.2.2.3/1	Hall B.E.; Allen, J.; Clements B.	2002	The Aerobic Degradation of [14]-Clopyralid in Natural Waters and their Associated Sediments DAS Report No.GHE-P-9564 Inveresk Research International, Tranet, East Lothian, UK Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.3.1/1	Day, S. R.; Rudel, H.	1994	The evaporation of Clopyralid acid from soil and leaf surfaces following application of LONTREL 100 DAS Report No. GHE-P-3507 Fraunhofer Institute, D-57392 Schmallenberg, Grafschaft/Hochsauerland, Germany GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 7.3.1/2	Madsen, S.	2002	Calculation of the Stability in Air of Clopyralid - Photochemical Degradation. DAS Report No. LLC NAFST GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.5/1	Wright, K. & Horn, H.	2002	Review of monitoring and occurrence of clopyralid in groundwater and surface water in Europe. DAS Report No. GHE-P-9757 Water Research Council, Wallingford, Oxon, UK GLP/GEP (Y/N): No Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 7.5/2	Aldous, E.; Johnson, I.; Keirle, R.	2015	Review of monitoring and occurrence of clopyralid in surface freshwater, groundwater and drinking water in Europe. WRc plc, Swindon, UK WRc Report Reference: UC10779.02. DAS Report No. 150295 GLP/GEP (Y/N): No Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						(Regulation (EU) No 1141/2010).		
CP 9.2.4/1	Robinson, P.	2016	Predicted environmental concentrations of clopyralid in groundwater (PECgw) following the application to winter cereals and grassland - a modelling assessment for Europe using FOCUS PEARL, FOCUS PELMO and FOCUS MACRO DAS Report No. 151156, 25.2.2016. Dr. Knoell Consult Report 104115-2. GLP/GEP (Y/N): No Published (Y/N): No	N	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CP 9.2.4/2	Robinson, P.	2016	Predicted environmental concentrations of clopyralid in groundwater (PECgw) following the application to winter cereals and grassland - a modelling assessment for Europe using FOCUS PEARL, FOCUS PELMO and FOCUS MACRO DAS Report No. 151156, revision 04.05.2016 Dr. Knoell Consult Report 104115-7. GLP/GEP (Y/N): No	N	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			Published (Y/N): No			renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CP 9.2.4/3	Chatton, P.	19.5.2016	Letter from DAS to Tukes: DAS Response to RMS position on Plant Uptake Factor	N	N	N/A	DAS	Submitted for the purpose of renewal
CP 9.2.5/1	Robinson, P.	2015	Predicted environmental concentrations of clopyralid in surface water and sediment (PECSW and PECSW) following the application to winter cereals and grassland - a modelling assessment for Europe using the FOCUS surface water scenarios at Steps 1-3 DAS Report No. 151157 16.10.2015. Dr. Knoell Consult Report 02664-2. GLP/GEP (Y/N): No Published (Y/N): No	N	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CP 9.2.5/2	Robinson, P.	2016	<p>Predicted environmental concentrations of clopyralid in surface water and sediment (PECSW and PECSW) following the application to winter cereals and grassland - a modelling assessment for Europe using the FOCUS surface water scenarios at Steps 1-3</p> <p>DAS Report No. 151157, revision 04.05.206</p> <p>Dr. Knoell Consult Report 104115-8.</p> <p>GLP/GEP (Y/N): No</p> <p>Published (Y/N): No</p>	N	Y	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal



## A.9. ECOTOXICOLOGY DATA

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 8.1.1.1/1	[REDACTED]	1980	Acute Oral LD50 – Mallard Duck – DOWCO 290 DAS Report No. GH-RC 164 [REDACTED] [REDACTED] GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	DAR 2003
CA 8.1.1.3/1	[REDACTED]	1985	Lontrel Herbicide: A One-Generation Reproduction Study with the Mallard (Anas platyrhynchos) - Final Report. DAS Report No. 103-235 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	No	N/A	DAS	DAR 2003
CA 8.2.1/1	[REDACTED]	2000	Clopyralid: An Acute Toxicity Study with the Rainbow Trout, Oncorhynchus mykiss Walbaum DAS Report No. 001024 [REDACTED] [REDACTED] GLP/GEP (Y/N): Yes Published (Y/N): No	Yes	No	N/A	DAS	DAR 2003
CA 8.2.2.1/1	[REDACTED]	2000	Clopyralid: Toxicity to the Early Life Stages of the Fathead Minnow, Pimephales Promelas Rafinesque. DAS Report No. 001017	Yes	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
	██████ ██████ ██████ ██████ ██████		████████████████████ ██████████ GLP/GEP (Y/N): Yes Published (Y/N): No					
KCA 9/3 (CA 8.2.1)	Fairchild, J.F., Allert, A.L., Sappington, L.S., Nelson, K.J., Valle, J.A.	2008	Using accelerated life testing procedures to compare the relative sensitivity of rainbow trout and the federally listed threatened bull trout to three commonly used rangeland herbicides (picloram, 2,4-D and clopyralid). Environ. Toxicol. Chem. Vol. 27(3): 623-630.  GLP/GEP (Y/N): No Published (Y/N): Yes	Yes	No	N/A	-	Submitted for the purpose of renewal
KCA 9/4 (CA 8.2.2)	Fairchild, J.F., Allert, A.L., Feltz, K.P., Nelson, K.J., Valle, J.A.	2009	An ecological risk assessment of the acute and chronic effects of the herbicide clopyralid to rainbow trout ( <i>Oncorhynchus mykiss</i> ). Arch. Environ. Contam. Toxicol. Vol. 57: 725-731.  GLP/GEP (Y/N): No Published (Y/N): Yes	Yes	No	N/A	-	Submitted for the purpose of renewal
KCA 9/7 (CA 8.2.2.1)	Padilla, S., Corum, D., Padnos, B.,	2012	Zebrafish developmental screening of the ToxCast™ Phase I chemical library. Reprod. Toxicol. Vol. 33(2): 174-187.  GLP/GEP (Y/N): No	Yes	No	N/A	-	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
	Hunter, D.L., Beam, A., Houck, K.A., Sipes, N., Klein-streuer, N., Knudsen, T., Dix, D.J., Reif, D.M.		Published (Y/N): Yes					
KCA 9/8 (CA 8.2.2.1)	Stehr, C.M., Linbo, T.L., Baldwin, D.H., Scholz, N.L., Incardona, J.P.	2009	Evaluating the effects of forestry herbicides on fish development using rapid phenotypic screens. North American Journal of Fisheries Management Vol. 29(4): 975-984.  GLP/GEP (Y/N): No Published (Y/N): Yes	Yes	No	N/A	-	Submitted for the purpose of renewal
CA 8.2.2.3/1	██████ ██████	1982	Determination of the Bioconcentration Factor for 3,6-Dichloropicolinic Acid in Bluegill Sunfish During Continuous Aqueous Exposure. DAS Report No. GH-C 1577 ██ ██████████ GLP/GEP (Y/N): No Published (Y/N): No	Yes	No	N/A	DAS	DAR 2003

<b>Data Point</b>	<b>Author(s)</b>	<b>Year</b>	<b>Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not</b>	<b>Vertebrate study Y/N</b>	<b>Data protection claimed Y/N</b>	<b>Justification if data protection is claimed</b>	<b>Owner</b>	<b>Previous evaluation</b>
CA 8.2.4.1/1	Marino, T. A. ; McClymont, E. L. ; Staley, J. L.	2000	Clopyralid: An Acute Toxicity Study with the Daphnia, Daphnia magna Straus DAS Report No. 001025 Dow AgroSciences LLC, Midland, Michigan, United States GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.2.5.1/1	Douglas, M. T. ; Bell, G. ; Macdonald, I. A.	1992	An Assessment of the Effects of Lontrel T on the Reproduction of Daphnia magna DAS Report No. DWC 615/911087 Huntingdon Research Center Ltd, Huntingdon, Cambridgeshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.2.5.3/1	Barrett, K.	2001	Clopyralid Technical Toxicity to the Sediment Dwelling Phase of the Midge Chironomus riparius DAS Report No. GHE-T-1122 Huntingdon Life Sciences Ltd, Huntingdon, Cambridgeshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.2.6.1/1	Kirk, H. D. ; Gilles, M. M. ; McClymont, E. L. ; McFadden, L. G.	2000	Clopyralid: Growth Inhibition Test with the Freshwater Green Alga, Selenastrum capricornutum Printz DAS Report No. 001040 Dow AgroSciences LLC, Midland, Michigan, United States GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 8.2.6.2/1	Hoberg, J. R.	2006	Clopyralid Technical Grade - Growth Inhibition Test with Freshwater Blue Green Alga (Anabaena flos-aquae) DAS Report No. 060246 Springborn Smithers Laboratories 790 Main Street Wareham, Massachusetts, United States 02571 GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 8.2.6.2/2	Aufderheide, J.	2015	Clopyralid Technical: Growth Inhibition Test with the Freshwater Diatom, Navicula pelliculosa DAS Report No. 140515 ABC Laboratories, Inc. 7200 E. ABC Lane Columbia, Missouri 65202 USA GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
						applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
KCA 9/1 (CA 8.2.6.1/4 )	Chalifour, A., Spear, P.A., Boily, M.H., DeBlois, C., Giroux, C., Dassylva, N., Juneau, P.	2009	Assessment of toxic effects of pesticide extracts on different green algal species by using chlorophyll a fluorescence. Toxicological & Environmental Chemistry Vol 91(7): 1315-1329	No	No	N/A	-	Submitted for the purpose of renewal
CA 8.2.7/1	Cowgill, U. M. ; Milazzo, D. P. ; Potter, R. B.	1990	The Fourteen Day Toxicity of Lontrel T to Lemna gibba L G-3 (Duckweed) - ES-DR-0197-3428-4 DAS Report No. ES-2243 Dow AgroSciences LLC, Midland, Michigan, United States GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.2.7/2	Banman, C. S., Moore, S.	2015	Clopyralid: Toxicity to the Aquatic Macrophyte, Myriophyllum spicatum DAS Report No. 140735	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			SynTech Research Laboratory Services LLC 17745 South Metcalf Avenue Stilwell, Kansas 66085-9104 GLP/GEP (Y/N): Yes Published (Y/N): No			(renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 8.3.1.1.1/1	Wainwright, M.	2001	Clopyralid Technical Acute Toxicity To Honey Bees DAS Report No. GHE T-1091 Huntingdon Life Sciences Ltd, Huntingdon, Cambridgeshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.1.1.2/1	Wainwright, M.	2001	Clopyralid Technical Acute Toxicity To Honey Bees DAS Report No. GHE T-1091 Huntingdon Life Sciences Ltd, Huntingdon, Cambridgeshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.2.1/1	Sankanu, A.	2000a	A Laboratory Study To Evaluate The Effects of Clopyralid (EF 1136, An SL Formulation)	No	No	N/A	DAS	DAR 2003

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			Containing 100 G/L Clopyralid) on the Parasitic Wasp <i>Aphidius rhopalosiphi</i> (Hymenoptera: Braconidae) DAS Report No. GHE-P-8725 Ecotox Ltd, Tavistock, Devon, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No					
CA 8.3.2.1/2	Halsall, N.	2005	A laboratory rate response test to determine the effects of EF-1136 on the parasitic wasp, <i>Aphidius rhopalosiphi</i> DAS Report No. 050171 Insect Investigations Services Wentloog Cardiff UK GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal
CA 8.3.2.1/3	Riches, M.N.	2004	Lontrel 100: Effects on the parasitic wasp, <i>Aphidius rhopalosiphi</i> under extended laboratory conditions DAS Report No. GHE-P-10713 CEM Analytical Services Ltd Berkshire UK	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
			GLP/GEP (Y/N): Yes Published (Y/N): No			(renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 8.3.2.2/1	Sankanu, A.	2000b	A Laboratory Study To Evaluate The Effects of Clopyralid (EF-1136, An SL Formulation Containing 100 G-L Clopyralid) on Typhlodromus pyri (Acari: Phytoseiidae) DAS Report No. GHE-P-8416 Ecotox Ltd, Tavistock, Devon, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.2.3/1	Miles, M. J.	2002a	A Laboratory Study To Evaluate The Side Effects of EF-1136 (100 G/L Clopyralid SL) on the, Lacewing Chrysoperla carnea DAS report No. GHE-P-9505 EC Directive 91/414/EEC; EC Directive 96/12/EC GLP/GEP: Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003

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CA 8.3.2.3/2	Miles, M. J.	2002b	A Laboratory Study To Evaluate The Side Effects of EF-1136 (100 G/L Clopyralid SI) on the Carabid Beetle Poecilus Cupreus DAS report No. GHE-P-7173 Directive 96/12/EC GLP/GEP: Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.2.3/3	Rombke, J	1991	The Study of the acute toxicity for Poecilus cupreus (carabidae) of Lontrel 100 (EF-255) according to the BBA Guideline for testing of chemicals developed by Dr. U. Heimback DAS report No. BE-E084-90-03-CAK6 BBA GLP/GEP: Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.2.3/4	Rombke, J., Vickus, P.	1991	The Study of the acute toxicity for Aleochara bilineata (Staphylinidae) of Lontrel 100 (EF-255) according to IOBC/WPRS Guideline for Testing Chemical Developed by Dr. L. Samsoe-Petersen DAS report No. GHE-P-2489 IOBC/WPRS GLP/GEP: Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.3.2.3/5	Heimann, D.A., Vickus, P.	1991	A Study of the Acute Toxicity For Pardosa Sp. (Araneae) of Lontrel 100 DAS report No. GHE-P-3126 GLP/GEP: Yes	No	No	N/A	DAS	DAR 2003

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			Published (Y/N): No					
KCA 9/2 (CA 8.3.2.2)	Czarnecka, M., Parma, P., Kulec-Poszczyca, E.	2014	Total effects of selected plant protection products applied to different natural substrates on the predatory mite Typhlodromus pyri Sch. IOBC/WPRS Bulletin Vol. 103: 51-60.  GLP/GEP: No Published (Y/N): Yes	No	No	N/A	-	Submitted for the purpose of renewal
[CA 8.4.1/1	Hayward, J. C.	2001	The acute toxicity of clopyralid to the Earthworm Eisenia fetida DAS Report No. GHE-T-1130 CEMAS Study CEMR-1635 GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003]
CA 8.4.1/1	Hayward, J. C.	2001	The Effects of EF-1136 on Reproduction and Growth in the Earthworm Eisenia fetida DAS Report No. CEMS-1637 CEM Analytical Services Ltd, North Ascot, Berkshire, United Kingdom GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CA 8.5/1	Schöbinger, U.	2013	Clopyralid: Effects on the Activity of the Soil Microflora under Laboratory Conditions (Nitrogen and Carbon Transformation) DAS Report No. 130283 Eurofins Agrosience Services EcoChem GmbH Eutinger Str. 24 D-75223 Niefern-Öschelbronn Germany	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of	DAS	Submitted for the purpose of renewal

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			GLP/GEP (Y/N): Yes Published (Y/N): No			authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
[CA 8.5.1	Hayward & Morgan	2003	Soil respiration + N transformation GLP/GEP (Y/N): Yes Published (Y/N): No	No	No	N/A	DAS	DAR 2003]
KCA 9/5 (CA 8.5)	Kucharski, J., Bacmaga, M., Wyszowska, J.	2009	Effect of soil contamination with herbicides on the nitrification process. Ecological Chemistry and Engineering A Vol. 16(8): 947-952.  GLP/GEP (Y/N): No Published (Y/N): Yes	No	No	N/A	-	Submitted for the purpose of renewal
CA 8.6.2/1	Rockliff, C.	2013	EF-797 (clopyralid potassium, 750 g a.e/kg, SG) GLP Seedling Emergence and Seedling Growth Test Terrestrial Non Target Plants (based on OECD Guideline 208) – China, 2013 DAS Report No. 130095 Stockbridge Technology Centre Ltd., Cawood, Selby, North Yorkshire, YO8 3TZ. UK.	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of	DAS	Submitted for the purpose of renewal

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			GLP/GEP (Y/N): Yes Published (Y/N): No			authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).		
CA 8.6.2/2	Rockliff, C.	2013	EF-797 (clopyralid potassium, 750 g a.e/kg, SG) GLP Vegetative Vigour Test Terrestrial Non Target Plants (based on OECD Guideline 227) – China 2013 DAS Report No. 130094 Stockbridge Technology Centre Ltd, Cawood, Selby, North Yorkshire, UK. GLP/GEP (Y/N): Yes Published (Y/N): No	No	Yes	Active substance data submitted with an application under Article 15 of the Regulation (renewal) and with the application for renewal of authorisation of the corresponding product. Applies also to data submitted with applications for authorisation for products containing AIR2 substances (Regulation (EU) No 1141/2010).	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 9/6 (CA 8.6)	Olszyk, D., Pfleeger, T., Lee, E.H., Plocher, M.	2009	Pea ( <i>Pisum sativum</i> ) seed production as an assay for reproductive effects due to herbicides. Environ Toxicol Chem (2009) Vol. 28(9), pp. 1920-9	No	No	N/A	-	Submitted for the purpose of renewal
CA 8.8/1	Mallett, M. J.	2000	The Effects of Clopyralid Technical on Activated Sludge Respiration. DAS Report No CEMS-1322  CEM Analytical Services Ltd, North Ascot, Berkshire, UK  GLP/GEP (Y/N): Yes  Published (Y/N): No	No	No	N/A	DAS	DAR 2003
CP 10.1.1.1/1	██████ ██████ ██████ ██████	2005	GF-1374: an Acute Oral Toxicity Study With The Northern Bobwhite. DAS Study ID 040261 GLP/GEP Yes Published No	Yes	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.1.2.1/	██████ ██████	2005	GF-1374: Acute Oral Up and Down Procedure in Rats. DAS Report No. 040251	Yes	Yes	Product data submitted with an application for	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
1 (See CP 7.1.1)			██████████ GLP/GEP (Y/N): Yes Published (Y/N): No			renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards		
CP 10.2.1.4/1	██████ ██████	2005a	GF-1374: Acute Toxicity to Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) under Flow-through Conditions. Dow AgroSciences Study Number: 040342 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.2.1.4/2	Sayers, L.E.	2005b	GF-1374: Acute Toxicity to Water Fleas ( <i>Daphnia magna</i> ) under Static Conditions Dow AgroSciences Study Number: 040343 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.2.1.4/3	Hoberg, J.R.	2005a	GF-1374 – 72-Hour Acute Aoxicity Test With The Freshwater Green Alga <i>Pseudokirchneriella subcapitata</i> . Dow AgroSciences Study Number: 040270 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.2.1.4/4	Hoberg, J.R.	2005b	GF-1374 – Acute Toxicity to the Freshwater Diatom <i>Navicula pelliculosa</i> . Dow AgroSciences Study Number: 040272 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.2.1.4/5	Hoberg, J.R.	2005c	GF-1374 – Toxicity to Duckweed, <i>Lemna gibba</i> . Dow AgroSciences Study Number: 040271 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal



Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.2.1.4/6	Gonsior, G.	2013	GF-1374 - Growth Inhibition of <i>Myriophyllum spicatum</i> in a Water/Sediment System Dow AgroSciences Study Number: 121208 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.3.1.1.1/1	Hughes, C.	2004a	GF-1374: Acute Oral Toxicity Test with the Honeybee ( <i>Apis mellifera</i> ) Dow AgroSciences Study Number: 040260 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.3.1.1.2/1	Hughes, C.	2004b	GF-1374: Acute Contact Toxicity Test With The Honeybee, <i>Apis mellifera</i> . Dow AgroSciences Study Number: 040259 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.3.2.2/1	Loose, E.	2004a	GF-1374: an Extended Laboratory Study to Evaluate the Effects on Survival and Reproduction of the Parasitoid Wasp <i>Aphidius rhopalosiphi</i> (De Stefani-Perez) (Hymenoptera: Braconidae). Dow AgroSciences Study Number: 040262 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.3.2.2/2	Loose, E.	2005	GF-1374: an Extended Laboratory Study to Evaluate The Effects on Survival And Reproduction of the Predaceous Mite <i>Typhlodromus pyri</i> Scheuten (Acari: Phytoseiidae). Dow AgroSciences Study Number: 040263R GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.3.2.2/3	Loose, E.	2004b	An Extended Laboratory Study to Evaluate the Effects Of Gf-1374 On Survival and Reproduction of the Green Lacewing, <i>Chrysoperla carnea</i> Steph. (Neuroptera: Chrysopidae). Dow AgroSciences Study Number: 040264R GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.4.2.1/1	Davies, N.A.	2005	The Effects of GF-1374 on Reproduction and Growth in the Earthworm <i>Eisenia fetida</i> . Dow AgroSciences Study Number: 040258 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.4.2.1/2	Ganßmann, M.	2012a	Effects of GF-1374 on Reproduction of the Collembola <i>Folsomia candida</i> in Artificial Soil with 5% Peat Dow AgroSciences Study Number: 120256 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.4.2.1/3	Ganßmann, M.	2012b	Effects of GF-1374 on Reproduction of the Predatory Mite <i>Hypoaspis aculeifer</i> in Artificial Soil with 5% Peat. Dow AgroSciences Study Number: 120257 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.5.1/1	Rix, S.	2005	GF-1374: Determination of Effects on Soil Microflora Activity. Dow AgroSciences Study Number: 040256 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.6.2/1	Eley, R.	2005a	Evaluation of the Phytotoxicity of GF-1374 (Fluroxypr-1-MHE +Clopyralid+Florasulam, EC) GLP Vegetative Vigour Test - Terrestrial Non Target Plants (Based on OECD Guideline 208 B) North Europe 2005. Dow AgroSciences Study Number: EA05B2A033 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal
CP 10.6.2/2	Eley, R.	2005b	Evaluation of the Phytotoxicity of GF-1374 (Fluroxypr-1-MHE +Clopyralid+Florasulam, 144+80+2.5 g as/l, EC) GLP Seedling Emergence and Seedling Growth Test – Terrestrial Non Target Plants (Based on OECD Guideline 208 A) North Europe 2005. Dow AgroSciences Study Number: EA05B2A020 GLP/GEP Yes Published No	No	Yes	Product data submitted with an application for renewal of authorisation under Article 43 of the Regulation – containing at least one active considered under AIR2 onwards	DAS	Submitted for the purpose of renewal

