

Chlorothalonil

NOTIFICATION OF AN ACTIVE SUBSTANCE UNDER COMMISSION REGULATION (EU) 844/2012

DOCUMENT L-CA, Section 8 Supplement Reference List

ECOTOXICOLOGICAL STUDIES

Version history¹

Date	Data points containing amendments or additions and brief description	Document identifier and version number
24/08/2015	Additional reports included as detailed in M-CA Section 8; all amendments highlighted in yellow	7 March 2015 updated 24/8/15
21/09/2016	Minor amendments included to reflect changes in M-CA Section 8; all amendments highlighted in green	7 March 2015 updated 24/8/15, 21/9/16

¹ It is suggested that applicants adopt a similar approach to showing revisions and version history as outlined in SANCO/10180/2013 Chapter 4 How to revise an Assessment Report.

Art. 33 (3) c	Justifications of steps taken to avoid animal testing and duplication of such testing	Justification: There is no repetition of studies involving vertebrates. Animal studies were only performed where there were no data available to address an endpoint, no extrapolation to existing data possible or the available data were not done according to modern guidelines or because they were necessary to comply with regulatory requirements outside of EU28. The testing strategy takes into account methods compliant with the 3R concept for refinement, reduction and replacement of animal testing where applicable and acceptable.
Art. 33 (3) d	Reasons for necessity for submission of tests and study reports	Reason: since this active substance was previously registered there have been changes to active substance endpoints and test, study and assessment guidelines; therefore where necessary in order to obtain re-approval new tests and study reports are provided.

Where the report has been previously submitted, but an OECD summary has been provided for clarity reasons only, the original report has not been submitted again and is not included in this reference list.

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Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.1.1.3 / 01	Taylor S., Walton H.	2015	Chlorothalonil (R44686) - A One-Generation Reproduction Study with the Mallard (Anas platyrhynchos). Statistical Reanalysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1358 Not GLP not published Syngenta File No R044686_11121 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.1.1.3 / 02	Taylor S., Blakey A.	2015	Chlorothalonil (R44686) - Reproduction study in Bobwhite Quail (Colinus virginianus) with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1357 Not GLP not published Syngenta File No R044686_11120 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.1.1.3 / 03	Taylor S.	2015	R182281 - Reproduction Study in Mallard Ducks with R182281. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1360 Not GLP not published Syngenta File No R182281_10011 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.1.1.3 / 04	Taylor S.	2015a	R182281 - Reproduction Study in Bobwhite Quail with R182281. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1359 Not GLP not published Syngenta File No R182281_10010 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.1.2.2 / 01	Farag A., Karkour T., Okazy A.	2006	Embryotoxicity of Oral Administered Chlorothalonil in Mice University of Alexandria, Faculty of Agriculture, Egypt, Birth Defects Research (Part 8) 77:104-109 (2006). Not GLP published Syngenta File No R044686_11260	N	N	-	-

Reference List, by Data Point

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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KCA 8.1.4 / 01	Knopper L.	2004	Organismal Effects of Pesticide Exposure on Meadow Voles (<i>Microtus Pennsylvanicus</i>) Living in Golf Course Ecosystems: Developmental Instability, Clinical Hematology, Body Condition, and Blood Parasitology <i>Environmental Toxicology and Chemistry</i> , 23(6), 1512-1519 Not GLP published Syngenta File No R044686_11270	N	N	-	-
KCA 8.1.4 / 02	de Solla S., Palonen K., Martin P.	2014	Toxicity of pesticides associated with potato production, including soil fumigants, to snapping turtle eggs (<i>Chelydra Serpentina</i>) <i>Environ Toxicol Chem</i> 33:102-106 Not GLP published Syngenta File No R044686_11398	Y	N	-	-
KCA 8.1.5 / 01	Panter G.	2015	Chlorothalonil - Review for Potential for Endocrine Disruption in Ecotoxicology Species Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, Not GLP not published Syngenta File No R044686_11146 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

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KCA 8.2.1 / 01	Peither A.	2003	Acute toxicity of chlorothalonil technical to rainbow trout (<i>Oncorhynchus mykiss</i>) in a 96-hour flow-through test Syngenta Crop Protection AG, Basel, Switzerland RCC Ltd., Itingen, Switzerland, 847397 GLP not published Syngenta File No R44686/3408	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
KCA 8.2.1 / 02	Fornier A.	2013	Chlorothalonil - Acute Toxicity of Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Under Static-Renewal Conditions Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6915 GLP not published Syngenta File No R044686_51483	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

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KCA 8.2.1 / 023	O'Meara H., Shults S., Laveglia J.	1996	SDS-67042 - Acute Toxicity to Rainbow Trout (Oncorhynchus mykiss) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, CTL/C/3358, 96-4-6448 GLP not published Syngenta File No R44686/2696	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
KCA 8.2.1 / 034	O'Meara H., Serrone D.	1997	SDS-67042 Sulfoxide - Acute Toxicity to Rainbow Trout (Oncorhynchus mykiss) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0179-TX-002, 96-10-6741 GLP not published Syngenta File No R44686/2727	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.1 / 045	Seyfried B.	2006	Chlorothalonil: Acute Toxicity of the Leachate of 14c-Chlorothalonil From a Lysimeter Study (Rcc Study No. A05837) to Zebra Fish (Brachydanio Rerio) in a 96-Hour Static Test RCC Ltd., Itingen, Switzerland Vischim Srl, Milano, Italy, A45538 GLP not published Syngenta File No R044686_11282	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
KCA 8.2.2.1 / 01	Schwader A.	2014	Chlorothalonil - Early Life-Stage Toxicity Test with Sheepshead Minnow (Cyprinodon variegatus) Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6917 GLP not published Syngenta File No R044686_51476	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

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KCA 8.2.2.24 / 04201	Taylor S.	2015b	Chlorothalonil (R44686) - A Chronic Study in the Fathead Minnow (<i>Pimephales promelas</i>) with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1329 Not GLP not published Syngenta File No R044686_11125 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force
KCA 8.2.2.2 / 02	Yellowlees A.	2016	Chronic study in the fathead minnow. Numbers of eggs per surviving female per day: NOEC and EC10 Syngenta Quantics Biostatistics, Edinburgh, UK, 0090 Not GLP not published Syngenta File No R044686_11395 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force

Reference List, by Data Point

15 February 2015

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KCA 8.2.2.3 / 01 & KCA 8.2.5.4 / 025 & KCA 8.2.5.4 / 036 & KCA 8.2.6.2 / 06 & KCA 8.2.6.2 / 07	Bao V.	2011	Acute toxicities of five commonly used antifouling booster biocides to selected subtropical and cosmopolitan marine species Marine Pollution Bulletin 62 (2011) 1147 – 1151 Not GLP published Syngenta File No R044686_11266	N	N	-	-
KCA 8.2.2.3 / 02	Davies P.	1985	The Toxicology and Metabolism of Chlorothalonil in Fish. I. Lethal Levels for <i>Salmo Gairdneri</i> , <i>Galax/As Maculatus</i> , <i>G. Truttaceus</i> and <i>G. Auratus</i> and the Fate of 14c-Tcin in <i>S. Gairdneri</i> Aquatic Toxicology 7 (1985) 93 – 105 Not GLP published Syngenta File No R044686_11276	N	N	-	-
KCA 8.2.2.3 / 03 & KCA 8.2.2.3 / 04 & KCA 8.2.5.4 / 147 & KCA 8.2.5.4 / 158 & KCA 8.2.6.2 / 09	Onduka T.	2012	Toxicity of chlorothalonil to marine organisms <i>Fish Sci</i> , 78:1301-1308 Not GLP published Syngenta File No R044686_11273	N	N	-	-

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KCA 8.2.2.3 / 05 & KCA 8.2.5.4 / 169	Sherrard R., Murray-Gulde C., Rodgers J., Shah Y.	2003	Comparative toxicity of Chlorothalonil: Ceriodaphnia dubia and Pimephales promelas Ecotoxicology and Environmental Safety 56 (2003) 327 - 333 Not GLP published Syngenta File No R044686_11304	N	N	-	-
KCA 8.2.2.3 / 06	Johnson L.	2013	Interactive Effects of Pesticide Mixtures, Predators, and Environmental Regimes on the Toxicity of Two Pesticides to Red-Eyed Tree Frog Larvae <i>Environmental Toxicology and Chemistry</i> , 32(10), 2379-2386 Not GLP published Syngenta File No R044686_11279	N	N	-	-
KCA 8.2.2.3 / 07	Yu S.	2013	Effects of chlorothalonil on development and growth of amphibian embryos and larvae <i>Environmental Pollution</i> , 181:329-334 Not GLP published Syngenta File No R044686_11268	N	N	-	-

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KCA 8.2.2.3 / 08	Mcmahon T.	2013	The fungicide chlorothalonil is nonlinearly associated with corticosterone levels, immunity and mortality in amphibians Environmental Health Perspectives, 119(8), 1098-1103 Not GLP published Syngenta File No R044686_11303	N	N	-	-
KCA 8.2.3 / 01	York D.	2012	Chlorothalonil - Fish Short-Term Reproduction Assay with Fathead Minnow (Pimephales promelas) Syngenta, Arysta LifeScience North America, LLC, Cary, NC, USA, Makhteshim Agan of North America Inc, Raleigh, NC, USA, IBC Manufacturing Co., Memphis, TN, USA, SipcamAdvan, Durham, NC, USA Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6775 GLP not published Syngenta File No R044686_10968	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

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Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.3 / 02	Lee M.	2012	Chlorothalonil - Amphibian Metamorphosis Assay with African Clawed Frog (<i>Xenopus laevis</i>) Syngenta, Makhteshim Agan of North America Inc, Raleigh, NC, USA, SipcamAdvan, Durham, NC, USA, Arysta LifeScience North America, LLC, Cary, NC, USA, IBC Manufacturing Co., Memphis, TN, USA, Oxon Italia S.p.A., c/o Lewis & Harrison, Washington DC, USA Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6774 GLP not published Syngenta File No R044686_51142	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
KCA 8.2.4.1 / 01	O'Meara H., Shults S., Laveglia J.	1996a	SDS-67042 - Acute Toxicity to Daphnids (<i>Daphnia magna</i>) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, CTL/C/3356, 96-3-6412 GLP not published Syngenta File No R44686/2669	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

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KCA 8.2.4.1 / 02	O'Meara H., Serrone D.	1997a	SDS-67042 Sulfoxide - Acute Toxicity to Daphnids (Daphnia magna) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0180-TX-002, 96-11-6765 GLP not published Syngenta File No R44686/2666	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
KCA 8.2.4.1 / 03	Volz E.	2007	SDS-46851 (a Metabolite of Chlorothalonil): Acute Toxicity to Daphnia Magna in a 48-Hour Immobilisation Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86163 GLP not published Syngenta File No R611965_10032	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Data Point

15 February 2015

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KCA 8.2.4.1 / 04	Seyfried B.	2006a	Chlorothalonil: Acute Toxicity of the Leachate of 14c-Chlorothalonil From a Lysimeter Study (Rcc Study No. A05837) to Daphnia Magna in a 48-Hour Immobilization Test RCC Ltd., Itingen, Switzerland Vischim Srl, Milano, Italy, A45551 GLP not published Syngenta File No R044686_11283	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA **
KCA 8.2.4.1 / 05	Hengsberger A., Hartel C.	2015	R613801 - Acute Toxicity to Daphnia magna in a Static 48-hour Immobilisation Test Syngenta IBACON GmbH, Rossdorf, Germany, 104961220 GLP not published Syngenta File No R613801_10000	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force*
KCA 8.2.5.1 / 01	Taylor S.	2015c	Chlorothalonil (R44686) - Chronic Toxicity Study in Daphnia magna with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1333 Not GLP not published Syngenta File No R044686_11123 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

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KCA 8.2.5.2 / 01	Taylor S.	2015d	Chlorothalonil (R44686) - Flow-through life cycle toxicity test in mysid shrimp with technical chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1473 Not GLP not published Syngenta File No R044686_11226 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.2.5.2 / 02	Schwader A.	2014a	Chlorothalonil - Life-Cycle Toxicity Test with Mysids (<i>Americamysis bahia</i>) Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6916 GLP not published Syngenta File No R044686_51504	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

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KCA 8.2.5.3 / 01	Taylor S.	2015e	Chlorothalonil (R44686) - The Toxicity of Chlorothalonil to the Sediment Dwelling Phase of the Midge Chironomus riparius. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1345 Not GLP not published Syngenta File No R044686_11126 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.2.5.4 / 01	Bradley M.	2014	10-Day Toxicity Test Exposing Midge (Chironomus dilutus) to Chlorothalonil Applied to Sediment Under Static-Renewal Conditions Following OCSPP Draft Guideline 850.1735 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6918 GLP not published Syngenta File No R044686_51643	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil**

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KCA 8.2.5.4 / 02	Bradley M.	2014a	10-Day Toxicity Test Exposing Freshwater Amphipods (<i>Hyaella azteca</i>) to Chlorothalonil Applied to Sediment Under Static-Renewal Conditions Following OCSPP Draft Guideline 850.1735 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6940 GLP not published Syngenta File No R044686_51490	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
KCA 8.2.5.4 / 03	Bradley M.	2014b	10-Day Toxicity Test Exposing Estuarine Amphipods (<i>leptocheirus plumulosus</i>) to Chlorothalonil Applied to Sediment Under Static Conditions Following OCSPP Draft Guideline 850.1740 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6919 GLP not published Syngenta File No R044686_51669	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

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KCA 8.2.5.4 / 044 & KCA 8.2.6.2 / 08	Bao V.	2008	Temperature-Dependent Toxicities of Chlorothalonil and Copper Pyrithione to the Marine Copepod Tigriopus Japonicus and Dinoflagellate Pyrocystis Lunula <i>Australasian Journal of Ecotoxicology</i> Vol. 14 pp 45 -54 Not GLP published Syngenta File No R044686_11290	N	N	-	-
KCA 8.2.5.4 / 047	Bejarano A.	2005	Influence of natural dissolved organic matter (DOM) on acute and chronic toxicity of the pesticides chlorothalonil, chlorpyrifos and fipronil on the meiobenthic estuarine copepod <i>Amphiascus tenuiremis</i> <i>Journal of Experimental Biology and Ecology</i> 321 (2005) 43 - 57 Not GLP published Syngenta File No R044686_11267	N	N	-	-
KCA 8.2.5.4 / 058 & KCA 8.2.5.4 / 069 & KCA 8.2.5.4 / 0811	Bellas J.	2006	Comparative toxicity of alternative antifouling biocides on embryos and larvae of marine invertebrates <i>Science of the Total Environment</i> 367 (2006) 573 – 585 Not GLP published Syngenta File No R044686_11272	N	N	-	-

Reference List, by Data Point

15 February 2015

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KCA 8.2.5.4 / 0710	Bellas J.	2008	Prediction and assessment of mixture toxicity of compounds in antifouling paints using the sea-urchin embryo-larval bioassay Aquatic Toxicology 88 (2008) 308 – 315 Not GLP published Syngenta File No R044686_11275	N	N	-	-
KCA 8.2.5.4 / 0912	Bringolf R.	2007	Acute and Chronic Toxicity of Technical-Grade Pesticides to Glochidia and Juveniles of Freshwater Mussels (Unionidae) <i>Environmental Toxicology and Chemistry</i> , Vol. 26, No. 10, pp. 2086- 2093 Not GLP published Syngenta File No R044686_11277	N	N	-	-
KCA 8.2.5.4 / 1013	DeLorenzo M.	2009	Temperature and salinity effects on the toxicity of common pesticides to the grass shrimp, <i>Palaemonetes pugio</i> <i>Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes</i> (2009) 44, 455-460 Not GLP published Syngenta File No R044686_11265	N	N	-	-

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KCA 8.2.5.4 / 14 14	Faria M.	2010	Comparative toxicity of single and combined mixtures of selected pollutants among larval stages of the native freshwater mussels (<i>Unio elongatulus</i>) and the invasive zebra mussel (<i>Dreissena polymorpha</i>) Science of the Total Environment, Vol. 408, pp. 2452 – 2458 Not GLP published Syngenta File No R044686_11274	N	N	-	-
KCA 8.2.5.4 / 15 15	Hagen T.	2010	Utilisation of a new bdelloid rotifer (<i>Philodina acuticornis odiosa</i>) assay to evaluate the effect of salinity on the toxicity of chlorothalonil <i>Toxicological and Environmental Chemistry</i> , 92:743-748 Not GLP published Syngenta File No R044686_11264	N	N	-	-
KCA 8.2.5.4 / 16 16	Phyu Y.	2013	Assessing the Chronic Toxicity of Atrazine, Permethrin, and Chlorothalonil to the Cladoceran <i>Ceriodaphnia</i> cf. <i>Dubia</i> in Laboratory and Natural River Water <i>Archives of Environmental Contamination and Toxicology</i> (2013) 64:419-426 Not GLP published Syngenta File No R044686_11278	N	N	-	-

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Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.5.4 / 1720	Willming M.	2013	Effects of Environmentally Realistic Daily Temperature Variation on Pesticide Toxicity to Aquatic Invertebrates <i>Environmental Toxicology and Chemistry</i> Vol. 32 No. 12 pp. 2738 – 2745 Not GLP published Syngenta File No R044686_11271	N	N	-	-
KCA 8.2.6.1 / 01	Priestly S., Taylor S.	2015	Chlorothalonil (R44686) - The toxicity of technical chlorothalonil to <i>Selenastrum capricornutum</i> (subsequently named <i>Pseudokirchneriella subcapitata</i>). Statistical reanalysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1268 Not GLP not published Syngenta File No R044686_11115 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.1 / 02	Taylor S., Priestly S.	2015	R613636 - Toxicity to the green alga Selenastrum capricornutum. Statistical Re- analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1320 Not GLP not published Syngenta File No R613636_10004 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.2.6.1 / 03	Taylor S., Priestly S.	2015a	R417888 - Toxicity to the green alga Selenastrum capricornutum. Statistical Re- analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1297 Not GLP not published Syngenta File No R417888_10009 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.1 / 04	O Meara H, Shults S, Laveglia J	1996	SDS-67042 - Toxicity to the Freshwater Green Alga, Selenastrum capricornutum Zeneca Ag Products, Richmond, USA Springborn Laboratories Inc., Wareham, USA, CTL/C/3357, 96-4-6445 GLP not published Syngenta File No R44686/2672	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	SYN
KCA 8.2.6.1 / 05	O'Meara H., Serrone D.	1997b	SDS-67042 Sulfoxide - Toxicity to the Freshwater Green Alga, Selenastrum capricornutum Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0181-TX-002, 96-10-6737 GLP not published Syngenta File No R44686/2675	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	SYN

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.1 / 06	Taylor S., Priestly S.	2015b	R613841 - Toxicity to the Freshwater Green Alga, <i>Selenastrum capricornutum</i> . Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1318 Not GLP not published Syngenta File No R613841_10002 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.2.6.1 / 07	Seyfried B.	2007	SDS-46851 (Metabolite of Chlorothalonil): Toxicity to <i>Pseudokirchneriella Subcapitata</i> (Formerly <i>Selenastrum Capricornutum</i>) in a 72-Hour Algal Growth Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86231 GLP not published Syngenta File No R611965_10034	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.1 / 08	Seyfried B.	2007a	R417888 (Metabolite of Chlorothalonil): Toxicity to Pseudokirchneriella Subcapitata (Formerly Selenastrum Capricornutum) in a 72- Hour Algal Growth Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86253 GLP not published Syngenta File No R417888_10049	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience
KCA 8.2.6.1 / 09	Vryenhoef H., Mullee D.	2007	R613841 - Algal Inhibition Test Syngenta Crop Protection AG, Basel, Switzerland Safepharm Laboratories Ltd., Shardlow, United Kingdom, 2364/0039 GLP not published Syngenta File No R613841/0002	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	SYN
KCA 8.2.6.1 / 10	Hengsberger A., Hartel C.	2015a	R613801 - Toxicity to Pseudokirchneriella subcapitata in an Algal Growth Inhibition Test Syngenta, Syngenta IBACON GmbH, Rossdorf, Germany, 104961210 GLP not published Syngenta File No R613801_10001	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.2 / 01	Priestly S., Taylor S.	2015a	Chlorothalonil (R44686) - Toxicity to blue-green alga <i>Anabaena flos-aquae</i> . Statistical re-analysis. Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1301 Not GLP not published Syngenta File No R044686_11116 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.2.6.2 / 02	Taylor S., Priestly S.	2015c	Chlorothalonil (R44686) - Toxicity to the freshwater diatom <i>Navicula pelliculosa</i> . Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1321 Not GLP not published Syngenta File No R044686_11119 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.6.2 / 03	Seyfried B.	2007b	Chlorothalonil: Toxicity to Navicula Pelliculosa in a 72-Hour Algal Growth Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86185 GLP not published Syngenta File No R044686_11298	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.2.6.2 / 04	Seyfried B.	2007c	Chlorothalonil: Toxicity to Anabaena Flos-Aquae in a 72-Hour Algal Growth Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86207 GLP not published Syngenta File No R044686_11293	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.2.6.2 / 05	Vryenhoef H., Mullee D.	2007a	R613841 - Navicula Pelliculosa Algal Inhibition Test Syngenta Crop Protection AG, Basel, Switzerland SafePharm Laboratories Ltd., Shardlow, United Kingdom, 2364/0037 GLP not published Syngenta File No R613841/0001	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.7 / 01	Batscher R.	2007	Chlorothalonil: Toxicity to the Aquatic Higher Plant Lemna Gibba in a 7-Day Semi-Static Growth Inhibition Test ARYSTA LIFESCIENCE SAS, Noguères, France RCC Ltd., Itingen, Switzerland, A86308 GLP not published Syngenta File No R044686_11320	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.2.8 / 01	Doren L., Christmann R., Ebke K.	2015	Calculation of minimum detectable differences (MDD) of the microcosm study with chlorothalonil Syngenta Institut für Gewässerschutz MESOCOSM GmbH, Homberg, Germany, RJ3261B Not GLP not published Syngenta File No R044686_11306 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.2.8 / 02	Schafers C.	2005	Outdoor aquatic mesocosm study with Chlorothalonil 500 G/L SC (500 g Chlorothalonil/L) Vischim Srl, Milano, Italy Fraunhofer Institute, Schmallenberg, Germany, VIS-001/4-52 GLP not published Syngenta File No R044686_11280	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
KCA 8.2.8 / 03	Stegger P.	2016	Statistical evaluation of a Mesocosm Study: Calculation of minimum detectable difference (MDD) and NOEC at population level via Williams-test Outdoor aquatic mesocosm study with Chlorothalonil 500g/L SC Oxon Italia S.p.A., Pero, Italy Inst. f. Gewässerschutz MESOCOSM GmbH, Homberg, Germany, VIS-001/4-52, 206-001 Not GLP not published Syngenta File No R044686_11368	N	N	-	Oxon Italia SpA**
KCA 8.2.8 / 0304	Dijksterhuis J.	2011	Effects of Seven Fungicides on Non-Target Aquatic Fungi Water Air Soil Pollut, 222 421-425 Not GLP published Syngenta File No R044686_11269	N	N	-	-

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.3.1.1.1 / 01	Fauser-Misslin A.	2015	Chlorothalonil - Acute Oral and Contact Toxicity to Bumble bee (<i>Bombus terrestris</i> L.) under Laboratory Conditions Syngenta Innovative Environmental Services, Witterswil, Switzerland, 20140186 GLP not published Syngenta File No R044686_11179	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force
KCA 8.3.1.2 / 01	Kleebaum K.	2014	Chlorothalonil SC (A7867A) - Chronic toxicity to the honeybee <i>Apis mellifera</i> L. in a 10 day continuous laboratory feeding study Syngenta BioChem Agrar, Gerichshain, Germany, 13 10 48 072 B GLP not published Syngenta File No A7867A_11245	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force
KCA 8.3.1.3 / 01	Kleebaum K.	2014a	Chlorothalonil SC (A7867A) - Semi-chronic toxicity to the honeybee larvae <i>Apis mellifera</i> L. under laboratory conditions (in vitro) Syngenta BioChem Agrar, Gerichshain, Germany, 13 10 48 071 B GLP not published Syngenta File No A7867A_11246	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.3.1.4 / 01	Zhu W.	2014	Four Common Pesticides, Their Mixtures and a Formulation Solvent in the Hive Environment Have High Oral Toxicity to Honey Bee Larvae PLoS One. 2014; 9(1): e77547 Not GLP published Syngenta File No R044686_11262	N	N	-	-
KCA 8.3.2.2 / 01	Schmidt T.	2008	SDS-3701 (a Metabolite of Chlorothalonil): Rate-Response Toxicity to Adults of the Ground Beetle Species Poecilus Cupreus (Coleopteran: Carabidae) Under Extended Laboratory Conditions RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86894 GLP not published Syngenta File No R182281_10040	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.3.2.2 / 02	Schmidt T.	2007	R417888 (a Metabolite of Chlorothalonil): Rate-Response Toxicity to Adults of the Ground Beetle Species Poecilus Cupreus (Coleoptera: Carabidae) Under Extended Laboratory Conditions RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86905 GLP not published Syngenta File No R417888_10050	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.4.1 / 01	Taylor S., Blakey A., Walton H.	2015	Chlorothalonil (R44686) - Reproduction toxicity of chlorothalonil technical material to the Earthworm Eisenia andrei. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1342 Not GLP not published Syngenta File No R044686_11122 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.4.1 / 02	Taylor S., Blakey A., Walton H.	2015a	R182281 - The reproductive toxicity test of R182281 in Earthworms (<i>Eisenia andrei</i>). Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1343 Not GLP not published Syngenta File No R182281_10012 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.4.1 / 03	Taylor S.	2015f	R417888 - The reproductive toxicity test of the metabolite R417888 in Earthworms (<i>Eisenia andrei</i>). Statistical re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1344 Not GLP not published Syngenta File No R417888_10010 This is CONFIDENTIAL INFORMATION	N	N		Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.4.1 / 04	Schmidt T.	2007a	Chlorothalonil Technical: Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71605 GLP not published Syngenta File No R044686_11292	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.4.1 / 05	Schmidt T.	2007b	SDS-3701 (a Metabolite of Chlorothalonil): Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71583 GLP not published Syngenta File No R182281_10041	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.4.1 / 06	Schmidt T.	2007c	R417888 (a Metabolite of Chlorothalonil): Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71594 GLP not published Syngenta File No R417888_10051	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.4.2.1 / 01	Vinall S.	2014	Chlorothalonil SC (A7867A) - A laboratory test to determine the effects of fresh residues on the predatory mite <i>Hypoaspis aculeifer</i> (Acari, Laelapidae) Syngenta Mambo-Tox Ltd., Southampton, United Kingdom, SYN-14-1 GLP not published Syngenta File No A7867A_11243	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force
KCA 8.4.2.1 / 02	Kolzer U.	2005	Toxicity of SDS-3701 on the Reproduction of the Springtail <i>Folsomia candida</i> (Willem) (Collembola) Using an Artificial Soil Test GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041334/01-NLFC GLP not published Syngenta File No R182281_10033	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
KCA 8.4.2.1 / 03	Kolzer U.	2005a	Toxicity of VIS-01 on the Reproduction of the Springtail <i>Folsomia candida</i> (Willem) (Collembola) Using an Artificial Soil Test GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041355/01-NLFC GLP not published Syngenta File No R417888_10045	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.4.2.1 / 04	Schmidt T.	2009	SDS-3701 (metabolite of Chlorothalonil): Effects on the Decomposition of Organic Material by Soil Macro- and Micro-Organisms Enclosed in Litter Bags in the Field Harlan Laboratories Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71638 GLP not published Syngenta File No R182281_10039	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience
KCA 8.4.2.1 / 05 & KCA 8.4.2.1 / 06	Leitao S.	2014	Effects of azoxystrobin, chlorothalonil, and ethoprophos on the reproduction of three terrestrial invertebrates using a natural Mediterranean soil <i>Applied Soil Ecology</i> 76 (2014) 124 – 131 Not GLP published Syngenta File No R044686_11263	N	N	-	-
KCA 8.5 / 01	Kolzer U.	2005b	Assessment of the Side Effects of VIS-01 on the Activity of the Soil Microflora GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041355/01-ABMF GLP not published Syngenta File No R417888_10042	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Oxon Italia SpA**

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.5 / 02	Volkel W.	2008	Determination of Effects of SDS-46851 on Soil Microflora Activity RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71616 GLP not published Syngenta File No R611965_10033	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.5 / 03	Volkel W.	2008a	The Effects of R417888 on Soil Respiration and Nitrification RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71627 GLP not published Syngenta File No R417888_10048	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
KCA 8.5 / 04	Volkel W.	2006	Effects of SDS-3701 on Soil Respiration and Nitrification RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86343 GLP not published Syngenta File No R182281_10037	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.6.2 / 01	Balluff M.	2005	Seedling Emergence Dose Response Test for Non Target Plants Following Multiple Rate Applications of SDS-3701, a main Chlorothalonil Metabolite GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041334/S 1-FGSE GLP not published Syngenta File No R182281_10034	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
KCA 8.7 / 01	Schneiter P.	2014	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CCCC210323, CCCC547341, CCCC547367, CCCC548417, CCCC890840 against Septoria leaf spot on wheat (Zymoseptoria tritici) Syngenta , PDB-2014.2525.7A Not GLP not published Syngenta File No R044686_11319 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.7 / 02	Schneider P.	2014a	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against brown rust on wheat (<i>Puccinia recondita</i>) Syngenta , PDB-2014.2525.7C Not GLP not published Syngenta File No R044686_11317 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.7 / 03	Schneider P.	2014b	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against late blight of potato (<i>Phytophthora infestans</i>) Syngenta , PDB-2014.2525.7B Not GLP not published Syngenta File No R044686_11316 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.7 / 04	Schneiter P.	2014c	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CCCC210323, CCCC547341, CCCC547367, CCCC548417, CCCC890840 against , early blight of tomato (Alternaria solani) Syngenta , PDB-2014.2525.7D Not GLP not published Syngenta File No R044686_11318 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.7 / 05	Schneiter P.	2015	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against early blight of tomato (Alternaria solani) Syngenta , PDB-2014.2525.7E Not GLP not published Syngenta File No R044686_11354 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.7 / 06	Schneiter P.	2015a	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against late blight of potato (<i>Phytophthora infestans</i>) Syngenta , PDB-2014.2525.7F Not GLP not published Syngenta File No R044686_11355 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
KCA 8.7 / 07	Schneiter P.	2015b	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against Septoria leaf spot on wheat (<i>Zymoseptoria tritici</i>) Syngenta , PDB-2014.2525.7G Not GLP not published Syngenta File No R044686_11353 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
KCA 8.7 / 058	Seville A.	1999	GSH Reactivity of Chlorothalonil and its Metabolite R417888 Zeneca Agrochemicals, Jealott's Hill, United Kingdom Zeneca Agrochemicals, Jealott's Hill, United Kingdom, Not GLP not published Syngenta File No R044686_10536 This is CONFIDENTIAL INFORMATION	N	N	-	SYN*
KCA 8.7 / 069	Seville A.	1999a	GSH Reactivity of Chlorothalonil & its Metabolite R611965 Zeneca Agrochemicals, Jealott's Hill, United Kingdom , RIC7304 Not GLP not published Syngenta File No R44686/0210 This is CONFIDENTIAL INFORMATION	N	N	-	SYN*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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KCA 8.7 / 0710	Pierce A.	2001	GSH Reactivity of Chlorothalonil and Metabolites R182281, R419492 and R471811 Syngenta - Jealott's Hill, Bracknell, United Kingdom Syngenta - Jealott's Hill, Bracknell, United Kingdom, RIC7335 Not GLP not published Syngenta File No R044686_10542 This is CONFIDENTIAL INFORMATION	N	N	-	SYN*
KCA 8.7 / 0811	Pierce A.	2015	Reactivity of Chlorothalonil and metabolites CSCC548417, CSCC547367, CSDH394773, CSDB870985, CSDH059745, CSDH701649 with glutathione (GSH) Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, Not GLP not published Syngenta File No R044686_11305 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Data Point**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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KCA 8.8 / 01	Buche C.	2006	Chlorothalonil: Toxicity to Activated Sludge in a Respiration Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71706 GLP not published Syngenta File No R044686_11295	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

*Data confidentiality is requested for these data. Disclosure of the information might undermine the company commercial interests by providing access to company specific know-how used to develop unique positions and approaches to risk assessment.

**OXON Italia SpA acquired Vischim S.r.l. in November 2011.

*** Syngenta, Arysta Life Science and Oxon's sister company are members of the US Consortium Chlorothalonil

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Balluff M.	KCA 8.6.2 / 01	2005	Seedling Emergence Dose Response Test for Non Target Plants Following Multiple Rate Applications of SDS-3701, a main Chlorothalonil Metabolite GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041334/S 1-FGSE GLP not published Syngenta File No R182281_10034	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA **
Bao V.	KCA 8.2.2.3 / 01 & KCA 8.2.5.4 / 025 & KCA 8.2.5.4 / 036 & KCA 8.2.6.2 / 06 & KCA 8.2.6.2 / 07	2011	Acute toxicities of five commonly used antifouling booster biocides to selected subtropical and cosmopolitan marine species Marine Pollution Bulletin 62 (2011) 1147 – 1151 Not GLP published Syngenta File No R044686_11266	N	N	-	-
Bao V.	KCA 8.2.5.4 / 044 & KCA 8.2.6.2 / 08	2008	Temperature-Dependent Toxicities of Chlorothalonil and Copper Pyrethrin to the Marine Copepod Tigriopus Japonicus and Dinoflagellate Pyrocystis Lunula <i>Australasian Journal of Ecotoxicology</i> Vol. 14 pp 45 -54 Not GLP published Syngenta File No R044686_11290	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Batscher R.	KCA 8.2.7 / 01	2007	Chlorothalonil: Toxicity to the Aquatic Higher Plant Lemna Gibba in a 7-Day Semi-Static Growth Inhibition Test ARYSTA LIFESCIENCE SAS, Noguères, France RCC Ltd., Itingen, Switzerland, A86308 GLP not published Syngenta File No R044686_11320	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Bejarano A.	KCA 8.2.5.4 / 047	2005	Influence of natural dissolved organic matter (DOM) on acute and chronic toxicity of the pesticides chlorothalonil, chlorpyrifos and fipronil on the meiobenthic estuarine copepod <i>Amphiascus tenuiremis</i> Journal of Experimental Biology and Ecology 321 (2005) 43 - 57 Not GLP published Syngenta File No R044686_11267	N	N	-	-
Bellas J.	KCA 8.2.5.4 / 058 & KCA 8.2.5.4 / 069 & KCA 8.2.5.4 / 0811	2006	Comparative toxicity of alternative antifouling biocides on embryos and larvae of marine invertebrates <i>Science of the Total Environment</i> 367 (2006) 573 – 585 Not GLP published Syngenta File No R044686_11272	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Bellas J.	KCA 8.2.5.4 / 0710	2008	Prediction and assessment of mixture toxicity of compounds in antifouling paints using the sea-urchin embryo-larval bioassay Aquatic Toxicology 88 (2008) 308 – 315 Not GLP published Syngenta File No R044686_11275	N	N	-	-
Bradley M.	KCA 8.2.5.4 / 01	2014	10-Day Toxicity Test Exposing Midge (Chironomus dilutus) to Chlorothalonil Applied to Sediment Under Static-Renewal Conditions Following OCSP Draft Guideline 850.1735 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6918 GLP not published Syngenta File No R044686_51643	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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Bradley M.	KCA 8.2.5.4 / 02	2014a	10-Day Toxicity Test Exposing Freshwater Amphipods (<i>Hyaella azteca</i>) to Chlorothalonil Applied to Sediment Under Static-Renewal Conditions Following OCSPP Draft Guideline 850.1735 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6940 GLP not published Syngenta File No R044686_51490	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Bradley M.	KCA 8.2.5.4 / 03	2014b	10-Day Toxicity Test Exposing Estuarine Amphipods (<i>leptocheirus plumulosus</i>) to Chlorothalonil Applied to Sediment Under Static Conditions Following OCSPP Draft Guideline 850.1740 Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6919 GLP not published Syngenta File No R044686_51669	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Bringolf R.	KCA 8.2.5.4 / 0912	2007	Acute and Chronic Toxicity of Technical-Grade Pesticides to Glochidia and Juveniles of Freshwater Mussels (Unionidae) <i>Environmental Toxicology and Chemistry</i> , Vol. 26, No. 10, pp. 2086- 2093 Not GLP published Syngenta File No R044686_11277	N	N	-	-
Buche C.	KCA 8.8 / 01	2006	Chlorothalonil: Toxicity to Activated Sludge in a Respiration Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71706 GLP not published Syngenta File No R044686_11295	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Davies P.	KCA 8.2.2.3 / 02	1985	The Toxicology and Metabolism of Chlorothalonil in Fish. I. Lethal Levels for <i>Salmo Gairdneri</i> , <i>Galax/As Maculatus</i> , <i>G. Truttaceus</i> and <i>G. Auratus</i> and the Fate of 14c-Tcin in <i>S. Gairdneri</i> <i>Aquatic Toxicology</i> 7 (1985) 93 – 105 Not GLP published Syngenta File No R044686_11276	N	N	-	-

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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DeLorenzo M.	KCA 8.2.5.4 / 1013	2009	Temperature and salinity effects on the toxicity of common pesticides to the grass shrimp, <i>Palaemonetes pugio</i> <i>Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes</i> (2009) 44 , 455-460 Not GLP published Syngenta File No R044686_11265	N	N	-	-
de Solla S., Palonen K., Martin P.	KCA 8.1.4 / 02	2014	Toxicity of pesticides associated with potato production, including soil fumigants, to snapping turtle eggs (<i>Chelydra Serpentina</i>) <i>Environ Toxicol Chem</i> 33 :102–106 Not GLP published Syngenta File No R044686_11398	Y	N	-	-
Dijksterhuis J.	KCA 8.2.8 / 0304	2011	Effects of Seven Fungicides on Non-Target Aquatic Fungi <i>Water Air Soil Pollut</i> , 222 421-425 Not GLP published Syngenta File No R044686_11269	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Doren L., Christmann R., Ebke K.	KCA 8.2.8 / 01	2015	Calculation of minimum detectable differences (MDD) of the microcosm study with chlorothalonil Syngenta Institut für Gewässerschutz MESOCOSM GmbH, Homberg, Germany, RJ3261B Not GLP not published Syngenta File No R044686_11306 This is CONFIDENTIAL INFORMATION	N	N		Chlorothalonil Task Force*
Farag A., Karkour T., Okazy A.	KCA 8.1.2.2 / 01	2006	Embryotoxicity of Oral Administered Chlorothalonil in Mice University of Alexandria, Faculty of Agriculture, Egypt, Birth Defects Research (Part 8) 77:104-109 (2006). Not GLP published Syngenta File No R044686_11260	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Faria M.	KCA 8.2.5.4 / 1114	2010	Comparative toxicity of single and combined mixtures of selected pollutants among larval stages of the native freshwater mussels (<i>Unio elongatulus</i>) and the invasive zebra mussel (<i>Dreissena polymorpha</i>) Science of the Total Environment, Vol. 408, pp. 2452 – 2458 Not GLP published Syngenta File No R044686_11274	N	N	-	-
Fausser-Misslin A.	KCA 8.3.1.1.1 / 01	2015	Chlorothalonil - Acute Oral and Contact Toxicity to Bumble bee (<i>Bombus terrestris</i> L.) under Laboratory Conditions Syngenta Innovative Environmental Services, Witterswil, Switzerland, 20140186 GLP not published Syngenta File No R044686_11179	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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Formier A.	KCA 8.2.1 / 02	2013	Chlorothalonil - Acute Toxicity of Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Under Static-Renewal Conditions Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6915 GLP not published Syngenta File No R044686_51483	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Hagen T.	KCA 8.2.5.4 / 1215	2010	Utilisation of a new bdelloid rotifer (<i>Philodina acuticornis odiosa</i>) assay to evaluate the effect of salinity on the toxicity of chlorothalonil <i>Toxicological and Environmental Chemistry</i> , 92:743-748 Not GLP published Syngenta File No R044686_11264	N	N	-	-
Hengsberger A., Hartel C.	KCA 8.2.4.1 / 05	2015	R613801 - Acute Toxicity to <i>Daphnia magna</i> in a Static 48-hour Immobilisation Test Syngenta IBACON GmbH, Rossdorf, Germany, 104961220 GLP not published Syngenta File No R613801_10000	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force*

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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Hengsberger A., Hartel C.	KCA 8.2.6.1 / 10	2015a	R613801 - Toxicity to <i>Pseudokirchneriella</i> subcapitata in an Algal Growth Inhibition Test Syngenta, Syngenta IBACON GmbH, Rossdorf, Germany, 104961210 GLP not published Syngenta File No R613801_10001	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Chlorothalonil Task Force*
Johnson L.	KCA 8.2.2.3 / 06	2013	Interactive Effects of Pesticide Mixtures, Predators, and Environmental Regimes on the Toxicity of Two Pesticides to Red-Eyed Tree Frog Larvae <i>Environmental Toxicology and Chemistry</i> , 32(10), 2379-2386 Not GLP published Syngenta File No R044686_11279	N	N	-	-
Kleebaum K.	KCA 8.3.1.2 / 01	2014	Chlorothalonil SC (A7867A) - Chronic toxicity to the honeybee <i>Apis mellifera</i> L. in a 10 day continuous laboratory feeding study Syngenta BioChem Agrar, Gerichshain, Germany, 13 10 48 072 B GLP not published Syngenta File No A7867A_11245	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Chlorothalonil Task Force

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Kleebaum K.	KCA 8.3.1.3 / 01	2014a	Chlorothalonil SC (A7867A) - Semi-chronic toxicity to the honeybee larvae <i>Apis mellifera</i> L. under laboratory conditions (in vitro) Syngenta BioChem Agrar, Gerichshain, Germany, 13 10 48 071 B GLP not published Syngenta File No A7867A_11246	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force
Knopper L.	KCA 8.1.4 / 01	2004	Organismal Effects of Pesticide Exposure on Meadow Voles (<i>Microtus Pennsylvanicus</i>) Living in Golf Course Ecosystems: Developmental Instability, Clinical Hematology, Body Condition, and Blood Parasitology Environmental Toxicology and Chemistry, 23(6), 1512-1519 Not GLP published Syngenta File No R044686_11270	N	N	-	-
Kolzer U.	KCA 8.4.2.1 / 02	2005	Toxicity of SDS-3701 on the Reproduction of the Springtail <i>Folsomia candida</i> (Willem) (Collembola) Using an Artificial Soil Test GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041334/01-NLFC GLP not published Syngenta File No R182281_10033	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Kolzer U.	KCA 8.4.2.1 / 03	2005a	Toxicity of VIS-01 on the Reproduction of the Springtail <i>Folsomia candida</i> (Willem) (Collembola) Using an Artificial Soil Test GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041355/01-NLFC GLP not published Syngenta File No R417888_10045	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
Kolzer U.	KCA 8.5 / 01	2005b	Assessment of the Side Effects of VIS-01 on the Activity of the Soil Microflora GAB Biotechnologie GmbH, Niefern, Germany Vischim Srl, Milano, Italy, 20041355/01-ABMF GLP not published Syngenta File No R417888_10042	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Lee M.	KCA 8.2.3 / 02	2012	Chlorothalonil - Amphibian Metamorphosis Assay with African Clawed Frog (<i>Xenopus laevis</i>) Syngenta, Makhteshim Agan of North America Inc, Raleigh, NC, USA, SipcamAdvan, Durham, NC, USA, Arysta LifeScience North America, LLC, Cary, NC, USA, IBC Manufacturing Co., Memphis, TN, USA, Oxon Italia S.p.A., c/o Lewis & Harrison, Washington DC, USA Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6774 GLP not published Syngenta File No R044686_51142	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Leitao S.	KCA 8.4.2.1 / 05 & KCA 8.4.2.1 / 06	2014	Effects of azoxystrobin, chlorothalonil, and ethoprophos on the reproduction of three terrestrial invertebrates using a natural Mediterranean soil <i>Applied Soil Ecology</i> 76 (2014) 124 – 131 Not GLP published Syngenta File No R044686_11263	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Mcmahon T.	KCA 8.2.2.3 / 08	2013	The fungicide chlorothalonil is nonlinearly associated with corticosterone levels, immunity and mortality in amphibians Environmental Health Perspectives, 119(8), 1098-1103 Not GLP published Syngenta File No R044686_11303	N	N	-	-
O Meara H, Shults S, Laveglia J	KCA 8.2.6.1 / 04	1996	SDS-67042 - Toxicity to the Freshwater Green Alga, <i>Selenastrum capricornutum</i> Zeneca Ag Products, Richmond, USA Springborn Laboratories Inc., Wareham, USA, CTL/C/3357, 96-4-6445 GLP not published Syngenta File No R44686/2672	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
O'Meara H., Serrone D.	KCA 8.2.1 / 034	1997	SDS-67042 Sulfoxide - Acute Toxicity to Rainbow Trout (<i>Oncorhynchus mykiss</i>) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0179-TX-002, 96-10-6741 GLP not published Syngenta File No R44686/2727	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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O'Meara H., Serrone D.	KCA 8.2.4.1 / 02	1997a	SDS-67042 Sulfoxide - Acute Toxicity to Daphnids (Daphnia magna) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0180-TX-002, 96-11-6765 GLP not published Syngenta File No R44686/2666	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
O'Meara H., Serrone D.	KCA 8.2.6.1 / 05	1997b	SDS-67042 Sulfoxide - Toxicity to the Freshwater Green Alga, Selenastrum capricornutum Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, 6860-96-0181-TX-002, 96-10-6737 GLP not published Syngenta File No R44686/2675	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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O'Meara H., Shults S., Laveglia J.	KCA 8.2.1 / 023	1996	SDS-67042 - Acute Toxicity to Rainbow Trout (<i>Oncorhynchus mykiss</i>) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, CTL/C/3358, 96-4-6448 GLP not published Syngenta File No R44686/2696	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
O'Meara H., Shults S., Laveglia J.	KCA 8.2.4.1 / 01	1996a	SDS-67042 - Acute Toxicity to Daphnids (<i>Daphnia magna</i>) Under Flow-Through Conditions Syngenta Crop Protection AG, Basel, Switzerland Springborn Laboratories Inc., Wareham, USA, CTL/C/3356, 96-3-6412 GLP not published Syngenta File No R44686/2669	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
Onduka T.	KCA 8.2.2.3 / 03 & KCA 8.2.2.3 / 04 & KCA 8.2.5.4 / 147 & KCA 8.2.5.4 / 158 & KCA 8.2.6.2 / 09	2012	Toxicity of chlorothalonil to marine organisms <i>Fish Sci</i> , 78:1301-1308 Not GLP published Syngenta File No R044686_11273	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Panter G.	KCA 8.1.5 / 01	2015	Chlorothalonil - Review for Potential for Endocrine Disruption in Ecotoxicology Species Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, Not GLP not published Syngenta File No R044686_11146 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Peither A.	KCA 8.2.1 / 01	2003	Acute toxicity of chlorothalonil technical to rainbow trout (<i>Oncorhynchus mykiss</i>) in a 96-hour flow-through test Syngenta Crop Protection AG, Basel, Switzerland RCC Ltd., Itingen, Switzerland, 847397 GLP not published Syngenta File No R44686/3408	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN
Phyu Y.	KCA 8.2.5.4 / 136	2013	Assessing the Chronic Toxicity of Atrazine, Permethrin, and Chlorothalonil to the Cladoceran <i>Ceriodaphnia</i> cf. <i>Dubia</i> in Laboratory and Natural River Water <i>Archives of Environmental Contamination and Toxicology</i> (2013) 64:419-426 Not GLP published Syngenta File No R044686_11278	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Pierce A.	KCA 8.7 / 0710	2001	GSH Reactivity of Chlorothalonil and Metabolites R182281, R419492 and R471811 Syngenta - Jealott's Hill, Bracknell, United Kingdom Syngenta - Jealott's Hill, Bracknell, United Kingdom, RIC7335 Not GLP not published Syngenta File No R044686_10542 This is CONFIDENTIAL INFORMATION	N	N	-	SYN
Pierce A.	KCA 8.7 / 0811	2015	Reactivity of Chlorothalonil and metabolites CSCC548417, CSCC547367, CSDH394773, CSDB870985, CSDH059745, CSDH701649 with glutathione (GSH) Syngenta Syngenta - Jealott's Hill, Bracknell, United Kingdom, Not GLP not published Syngenta File No R044686_11305 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Priestly S., Taylor S.	KCA 8.2.6.1 / 01	2015	Chlorothalonil (R44686) - The toxicity of technical chlorothalonil to <i>Selenastrum capricornutum</i> (subsequently named <i>Pseudokirchneriella subcapitata</i>). Statistical reanalysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1268 Not GLP not published Syngenta File No R044686_11115 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Priestly S., Taylor S.	KCA 8.2.6.2 / 01	2015a	Chlorothalonil (R44686) - Toxicity to blue-green alga <i>Anabaena flos-aquae</i> . Statistical re-analysis. Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1301 Not GLP not published Syngenta File No R044686_11116 This is CONFIDENTIAL INFORMATION	N	N		Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schafers C.	KCA 8.2.8 / 02	2005	Outdoor aquatic mesocosm study with Chlorothalonil 500 G/L SC (500 g Chlorothalonil/L) Vischim Srl, Milano, Italy Fraunhofer Institute, Schmallenberg, Germany, VIS-001/4-52 GLP not published Syngenta File No R044686_11280	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
Schmidt T.	KCA 8.3.2.2 / 01	2008	SDS-3701 (a Metabolite of Chlorothalonil): Rate-Response Toxicity to Adults of the Ground Beetle Species Poecilus Cupreus (Coleopteran: Carabidae) Under Extended Laboratory Conditions RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86894 GLP not published Syngenta File No R182281_10040	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schmidt T.	KCA 8.3.2.2 / 02	2007	R417888 (a Metabolite of Chlorothalonil): Rate-Response Toxicity to Adults of the Ground Beetle Species Poecilus Cupreus (Coleoptera: Carabidae) Under Extended Laboratory Conditions RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86905 GLP not published Syngenta File No R417888_10050	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Schmidt T.	KCA 8.4.1 / 04	2007a	Chlorothalonil Technical: Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71605 GLP not published Syngenta File No R044686_11292	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schmidt T.	KCA 8.4.1 / 05	2007b	SDS-3701 (a Metabolite of Chlorothalonil): Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71583 GLP not published Syngenta File No R182281_10041	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience
Schmidt T.	KCA 8.4.1 / 06	2007c	R417888 (a Metabolite of Chlorothalonil): Effects on Survival, Growth and Reproduction of the Earthworm Eisenia Fetida RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71594 GLP not published Syngenta File No R417888_10051	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Schmidt T.	KCA 8.4.2.1 / 04	2009	SDS-3701 (metabolite of Chlorothalonil): Effects on the Decomposition of Organic Material by Soil Macro- and Micro-Organisms Enclosed in Litter Bags in the Field Harlan Laboratories Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71638 GLP not published Syngenta File No R182281_10039	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience
Schneiter P.	KCA 8.7 / 01	2014	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against Septoria leaf spot on wheat (<i>Zymoseptoria tritici</i>) Syngenta , PDB-2014.2525.7A Not GLP not published Syngenta File No R044686_11319 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schneiter P.	KCA 8.7 / 02	2014a	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against brown rust on wheat (<i>Puccinia recondita</i>) Syngenta , PDB-2014.2525.7C Not GLP not published Syngenta File No R044686_11317 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Schneiter P.	KCA 8.7 / 03	2014b	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against late blight of potato (<i>Phytophthora infestans</i>) Syngenta , PDB-2014.2525.7B Not GLP not published Syngenta File No R044686_11316 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schneiter P.	KCA 8.7 / 04	2014c	Fungicidal activity of Chlorothalonil and the metabolites CSAC202566, CSCA655149, CSCC210323, CSCC547341, CSCC547367, CSCC548417, CSCC890840 against , early blight of tomato (Alternaria solani) Syngenta , PDB-2014.2525.7D Not GLP not published Syngenta File No R044686_11318 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Schneiter P.	KCA 8.7 / 05	2015	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against early blight of tomato (Alternaria solani) Syngenta , PDB-2014.2525.7E Not GLP not published Syngenta File No R044686_11354 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schneiter P.	KCA 8.7 / 06	2015a	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against late blight of potato (<i>Phytophthora infestans</i>) Syngenta , PDB-2014.2525.7F Not GLP not published Syngenta File No R044686_11355 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Schneiter P.	KCA 8.7 / 07	2015b	Fungicidal activity of Chlorothalonil and the metabolites CSDH394773, CSDH059745, CSDH058344, CSDB870985, against Septoria leaf spot on wheat (<i>Zymoseptoria tritici</i>) Syngenta , PDB-2014.2525.7G Not GLP not published Syngenta File No R044686_11353 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Schwader A.	KCA 8.2.2.1 / 01	2014	Chlorothalonil - Early Life-Stage Toxicity Test with Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6917 GLP not published Syngenta File No R044686_51476	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Schwader A.	KCA 8.2.5.2 / 02	2014a	Chlorothalonil - Life-Cycle Toxicity Test with Mysids (<i>Americamysis bahia</i>) Syngenta Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6916 GLP not published Syngenta File No R044686_51504	N	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Seville A.	KCA 8.7 / 058	1999	GSH Reactivity of Chlorothalonil and its Metabolite R417888 Zeneca Agrochemicals, Jealott's Hill, United Kingdom Zeneca Agrochemicals, Jealott's Hill, United Kingdom, Not GLP not published Syngenta File No R044686_10536 This is CONFIDENTIAL INFORMATION	N	N	-	SYN*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Seville A.	KCA 8.7 / 069	1999a	GSH Reactivity of Chlorothalonil & its Metabolite R611965 Zeneca Agrochemicals, Jealott's Hill, United Kingdom , RIC7304 Not GLP not published Syngenta File No R44686/0210 This is CONFIDENTIAL INFORMATION	N	N		SYN*
Seyfried B.	KCA 8.2.1 / 045	2006	Chlorothalonil: Acute Toxicity of the Leachate of 14c-Chlorothalonil From a Lysimeter Study (Rcc Study No. A05837) to Zebra Fish (Brachydanio Rerio) in a 96-Hour Static Test RCC Ltd., Itingen, Switzerland Vischim Srl, Milano, Italy, A45538 GLP not published Syngenta File No R044686_11282	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**
Seyfried B.	KCA 8.2.4.1 / 04	2006a	Chlorothalonil: Acute Toxicity of the Leachate of 14c-Chlorothalonil From a Lysimeter Study (Rcc Study No. A05837) to Daphnia Magna in a 48-Hour Immobilization Test RCC Ltd., Itingen, Switzerland Vischim Srl, Milano, Italy, A45551 GLP not published Syngenta File No R044686_11283	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Oxon Italia SpA**

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Seyfried B.	KCA 8.2.6.1 / 07	2007	SDS-46851 (Metabolite of Chlorothalonil): Toxicity to Pseudokirchneriella Subcapitata (Formerly Selenastrum Capricornutum) in a 72- Hour Algal Growth Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86231 GLP not published Syngenta File No R611965_10034	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience
Seyfried B.	KCA 8.2.6.1 / 08	2007a	R417888 (Metabolite of Chlorothalonil): Toxicity to Pseudokirchneriella Subcapitata (Formerly Selenastrum Capricornutum) in a 72- Hour Algal Growth Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86253 GLP not published Syngenta File No R417888_10049	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	Arysta LifeScience

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Seyfried B.	KCA 8.2.6.2 / 03	2007b	Chlorothalonil: Toxicity to Navicula Pelliculosa in a 72-Hour Algal Growth Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86185 GLP not published Syngenta File No R044686_11298	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Seyfried B.	KCA 8.2.6.2 / 04	2007c	Chlorothalonil: Toxicity to Anabaena Flos-Aquae in a 72-Hour Algal Growth Inhibition Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86207 GLP not published Syngenta File No R044686_11293	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Sherrard R., Murray-Gulde C., Rodgers J., Shah Y.	KCA 8.2.2.3 / 05 & KCA 8.2.5.4 / 1619	2003	Comparative toxicity of Chlorothalonil: Ceriodaphnia dubia and Pimephales promelas Ecotoxicology and Environmental Safety 56 (2003) 327 - 333 Not GLP published Syngenta File No R044686_11304	N	N	-	-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Stegger P.	KCA 8.2.8 / 03	2016	Statistical evaluation of a Mesocosm Study: Calculation of minimum detectable difference (MDD) and NOEC at population level via Williams-test Outdoor aquatic mesocosm study with Chlorothalonil 500g/L SC Oxon Italia S.p.A., Pero, Italy Inst. f. Gewässerschutz MESOCOSM GmbH, Homberg, Germany, VIS-001/4-52, 206-001 Not GLP not published Syngenta File No R044686_11368	N	N	-	Oxon Italia SpA**
Taylor S.	KCA 8.1.1.3 / 03	2015	R182281 - Reproduction Study in Mallard Ducks with R182281. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1360 Not GLP not published Syngenta File No R182281_10011 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Taylor S.	KCA 8.1.1.3 / 04	2015a	R182281 - Reproduction Study in Bobwhie Quail with R182281. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1359 Not GLP not published Syngenta File No R182281_10010 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S.	KCA 8.2.2.24 / 04201	2015b	Chlorothalonil (R44686) - A Chronic Study in the Fathead Minnow (Pimephales promelas) with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1329 Not GLP not published Syngenta File No R044686_11125 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Taylor S.	KCA 8.2.5.1 / 01	2015c	Chlorothalonil (R44686) - Chronic Toxicity Study in Daphnia magna with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1333 Not GLP not published Syngenta File No R044686_11123 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S.	KCA 8.2.5.2 / 01	2015d	Chlorothalonil (R44686) - Flow-through life cycle toxicity test in mysid shrimp with technical chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1473 Not GLP not published Syngenta File No R044686_11226 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Taylor S.	KCA 8.2.5.3 / 01	2015e	Chlorothalonil (R44686) - The Toxicity of Chlorothalonil to the Sediment Dwelling Phase of the Midge Chironomus riparius. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1345 Not GLP not published Syngenta File No R044686_11126 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S.	KCA 8.4.1 / 03	2015f	R417888 - The reproductive toxicity test of the metabolite R417888 in Earthworms (Eisenia andrei). Statistical re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1344 Not GLP not published Syngenta File No R417888_10010 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Taylor S., Blakey A.	KCA 8.1.1.3 / 02	2015	Chlorothalonil (R44686) - Reproduction study in Bobwhite Quail (<i>Colinus virginianus</i>) with Technical Chlorothalonil. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1357 Not GLP not published Syngenta File No R044686_11120 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S., Blakey A., Walton H.	KCA 8.4.1 / 01	2015	Chlorothalonil (R44686) - Reproduction toxicity of chlorothalonil technical material to the Earthworm <i>Eisenia andrei</i> . Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1342 Not GLP not published Syngenta File No R044686_11122 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Taylor S., Blakey A., Walton H.	KCA 8.4.1 / 02	2015a	R182281 - The reproductive toxicity test of R182281 in Earthworms (<i>Eisenia andrei</i>). Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1343 Not GLP not published Syngenta File No R182281_10012 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S., Priestly S.	KCA 8.2.6.1 / 02	2015	R613636 - Toxicity to the green alga <i>Selenastrum capricornutum</i> . Statistical Re- analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1320 Not GLP not published Syngenta File No R613636_10004 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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Taylor S., Priestly S.	KCA 8.2.6.1 / 03	2015a	R417888 - Toxicity to the green alga Selenastrum capricornutum. Statistical Re- analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1297 Not GLP not published Syngenta File No R417888_10009 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S., Priestly S.	KCA 8.2.6.1 / 06	2015b	R613841 - Toxicity to the Freshwater Green Alga, Selenastrum capricornutum. Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1318 Not GLP not published Syngenta File No R613841_10002 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Taylor S., Priestly S.	KCA 8.2.6.2 / 02	2015c	Chlorothalonil (R44686) - Toxicity to the freshwater diatom <i>Navicula pelliculosa</i> . Statistical Re-analysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1321 Not GLP not published Syngenta File No R044686_11119 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*
Taylor S., Walton H.	KCA 8.1.1.3 / 01	2015	Chlorothalonil (R44686) - A One-Generation Reproduction Study with the Mallard (<i>Anas platyrhynchos</i>). Statistical Reanalysis Syngenta Cambridge Environmental Assessments, United Kingdom, CEA.1358 Not GLP not published Syngenta File No R044686_11121 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force*

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Vinall S.	KCA 8.4.2.1 / 01	2014	Chlorothalonil SC (A7867A) - A laboratory test to determine the effects of fresh residues on the predatory mite <i>Hypoaspis aculeifer</i> (Acari, Laelapidae) Syngenta Mambo-Tox Ltd., Southampton, United Kingdom, SYN-14-1 GLP not published Syngenta File No A7867A_11243	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Chlorothalonil Task Force
Volkel W.	KCA 8.5 / 02	2008	Determination of Effects of SDS-46851 on Soil Microflora Activity RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71616 GLP not published Syngenta File No R611965_10033	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Volkel W.	KCA 8.5 / 03	2008a	The Effects of R417888 on Soil Respiration and Nitrification RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A71627 GLP not published Syngenta File No R417888_10048	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Volkel W.	KCA 8.5 / 04	2006	Effects of SDS-3701 on Soil Respiration and Nitrification RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86343 GLP not published Syngenta File No R182281_10037	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Volz E.	KCA 8.2.4.1 / 03	2007	SDS-46851 (a Metabolite of Chlorothalonil): Acute Toxicity to Daphnia Magna in a 48-Hour Immobilisation Test RCC Ltd., Itingen, Switzerland ARYSTA LIFESCIENCE SAS, Noguères, France, A86163 GLP not published Syngenta File No R611965_10032	N	Y	New data; eligible for data protection according to SANCO/12576/2012	Arysta LifeScience
Vryenhoef H., Mullee D.	KCA 8.2.6.1 / 09	2007	R613841 - Algal Inhibition Test Syngenta Crop Protection AG, Basel, Switzerland Safepharm Laboratories Ltd., Shardlow, United Kingdom, 2364/0039 GLP not published Syngenta File No R613841/0002	N	Y	New data; eligible for data protection according to SANCO/12576/2012	SYN

Reference List, by Author

15 February 2015

KCA Section 8, Ecotoxicological studies on the active substance

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Vryenhoef H., Mullee D.	KCA 8.2.6.2 / 05	2007a	R613841 - Navicula Pelliculosa Algal Inhibition Test Syngenta Crop Protection AG, Basel, Switzerland Safepharm Laboratories Ltd., Shardlow, United Kingdom, 2364/0037 GLP not published Syngenta File No R613841/0001	N	Y	New data; eligible for data protection according to SANCO/12576/201 2	SYN
Willming M.	KCA 8.2.5.4 / 1720	2013	Effects of Environmentally Realistic Daily Temperature Variation on Pesticide Toxicity to Aquatic Invertebrates <i>Environmental Toxicology and Chemistry</i> Vol. 32 No. 12 pp. 2738 – 2745 Not GLP published Syngenta File No R044686_11271	N	N	-	-
Yellowlees A.	KCA 8.2.2.2 / 02	2016	Chronic study in the fathead minnow. Numbers of eggs per surviving female per day: NOEC and EC10 Syngenta Quantics Biostatistics, Edinburgh, UK, 0090 Not GLP not published Syngenta File No R044686_11395 This is CONFIDENTIAL INFORMATION	N	N	-	Chlorothalonil Task Force

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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York D.	KCA 8.2.3 / 01	2012	Chlorothalonil - Fish Short-Term Reproduction Assay with Fathead Minnow (Pimephales promelas) Syngenta, Arysta LifeScience North America, LLC, Cary, NC, USA, Makhteshim Agan of North America Inc, Raleigh, NC, USA, IBC Manufacturing Co., Memphis, TN, USA, SipcamAdvan, Durham, NC, USA Smithers Viscient, 790 Main Street, Wareham, MA, USA, 1781.6775 GLP not published Syngenta File No R044686_10968	Y	Y	New data; eligible for data protection according to SANCO/12576/2012	US Consortium Chlorothalonil* **
Yu S.	KCA 8.2.2.3 / 07	2013	Effects of chlorothalonil on development and growth of amphibian embryos and larvae Environmental Pollution, 181:329-334 Not GLP published Syngenta File No R044686_11268	N	N	-	-
Zhu W.	KCA 8.3.1.4 / 01	2014	Four Common Pesticides, Their Mixtures and a Formulation Solvent in the Hive Environment Have High Oral Toxicity to Honey Bee Larvae PLoS One. 2014; 9(1): e77547 Not GLP published Syngenta File No R044686_11262	N	N		-

Reference List, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

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*Data confidentiality is requested for these data. Disclosure of the information might undermine the company commercial interests by providing access to company specific know-how used to develop unique positions and approaches to risk assessment.

**OXON Italia SpA acquired Vischim S.r.l. in November 2011.

*** Syngenta, Arystas Life Science and Oxon's sister company are members of the US Consortium Chlorothalonil

Listing of Test and Study Reports and published Papers not submitted, by Author**15 February 2015****KCA Section 8, Ecotoxicological studies on the active substance**

Author(s)	Data point	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner (SYN = Syngenta)
Stäbler D.	KCA 8.2.1	2005	Acute toxicity testing of VIS 01 in rainbow trout (Oncorhynchus mykiss) (Teleostei, Salmonidae) Report No. 20041355/01-AAOm	Y	N/A*	N/A*	Oxon Italia SpA**
Stäbler D.	KCA 8.2.1	2005	Acute toxicity testing of SDS 46851 in rainbow trout (Oncorhynchus mykiss) (Teleostei, Salmonidae) Report No. 20041336/01-AAOm	Y	N/A*	N/A*	Oxon Italia SpA**
Stäbler D.	KCA 8.3.1	2005	Assessment of toxic effects of VIS 01 on Daphnia magna using the 48 h acute immobilisation test Report No. 20041355/01-AADm	N	N/A*	N/A*	Oxon Italia SpA**
Stäbler D.	KCA 8.3.1	2005	Assessment of toxic effects of SDS 46851 on Daphnia magna using the 48 h acute immobilisation test Report No. 20041336/01-AADm	N	N/A*	N/A*	Oxon Italia SpA**
Dengler D.	KCA 8.4	2005	Testing of toxic effects of VIS 01 on the single cell green alga Desmodesmus subspicatus (formerly Scenedesmus subspicatus) Report No. 20041355/01-AADs	N	N/A*	N/A*	Oxon Italia SpA**
Dengler D.	KCA 8.4	2005	Testing of toxic effects of SDS 46851 on the single cell green alga Desmodesmus subspicatus (formerly Scenedesmus subspicatus) Report No. 20041336/01-AADs	N	N/A*	N/A*	Oxon Italia SpA**

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Müther-Paul J.	KCA 8.9.2	2005	Sublethal toxicity of VIS 01 on earthworm, Eisenia fetida using an artificial soil test, Report No. 20041355/01-NREF	N	N/A*	N/A*	Oxon Italia SpA**
Kölzer U.	KCA 8.10	2005	Assessment of the side effects of SDS 46851 on the activity of the soil microflora Report No. 20041336/01-ABMF	N	N/A*	N/A*	Oxon Italia SpA**

N/A* - Not applicable as reports not submitted

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