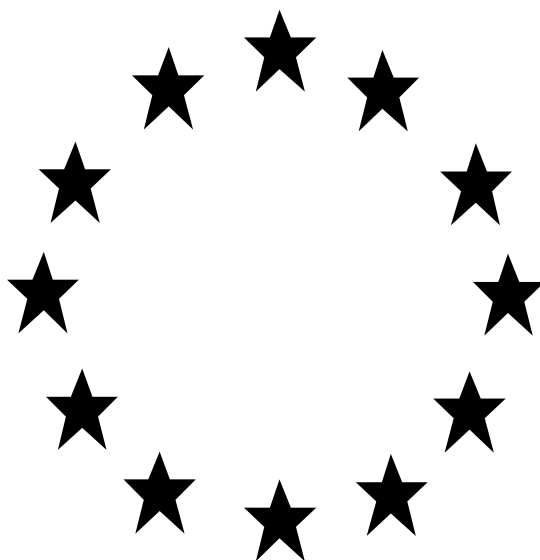




Draft Assessment Report (DAR)

- public version -

**Initial risk assessment provided by the rapporteur Member State
Austria for the existing active substance**

CYMOXANIL

**of the third stage (part B) of the review programme
referred to in Article 8(2) of Council Directive 91/414/EEC**

Volume 2, Annex A

October 2007

Federal Office for Food Safety

Spargelfeldstraße 191
1226 Vienna
Austria

Monograph prepared in the context of inclusion of following active substance in Annex I of the
Council Directive 91/414/EEC

Cymoxanil



Volume 2

Annex A

List of Tests and Studies

Draft: June 2007

WARNING: This document forms part of an EC evaluation data package and should not be read in isolation. No authorization must be granted on the basis of this document.

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A.1 Identity (Annex IIA 1, Annex IIIA 1)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information, Applicant A (DuPont)					
Curl M.G.	IIA, 1.11	2004	Confidential Manufacturing Information- Specifications and Summaries DuPont Report No. 11728EU GLP: No Published: No	Y	DuPont/ Oxon
Flament, C.	IIA, 1.11; 4.1.2	1999a	Preliminary analysis of technical grade cymoxanil (DPX-T3217) from [REDACTED] source GLP: Yes Published: No	Y	DuPont
Flament, C.	IIA, 1.11; 4.1.2	1999b	Preliminary analysis of technical grade cymoxanil (DPX-T3217) from [REDACTED] source GLP: Yes Published: No	Y	DuPont
Itin, J.P	IIA, 1.8, 1.10	2001	DuPont cymoxanil technical (DPX-T3217): Description of the manufacturing process and formation of impurities GLP: No Published: No	Y	DuPont
Jin, L.	IIA, 1.11; 4.1.2	2001	Technical grade cymoxanil (DPX-T3217) preliminary analysis and certification of product ingredients GLP: Yes Published: No	Y	DuPont
Jin, L, Itin, J.P, Schmuckler, M.A.	IIA, 1.2	2006	Tier II, Summary document number – DuPont-11728 EU (revised 19 May 2005 and 31 March 2006) GLP: No Published: No	Y	DuPont
Jin, L, Itin, J.P, Schmuckler, M.A.	IIA, 1.9	2006	Tier II, Summary document number – DuPont-11728 EU (revised 19 May 2005 and 31 March 2006) GLP: No Published: No	Y	DuPont
Jin, L, Itin, J.P, Schmuckler, M.A.	IIA, 1.10	2006	Tier II, Summary document number – DuPont-11728 EU (revised 19 May 2005 and 31 March 2006) GLP: No Published: No	Y	DuPont

Annex A: List of tests and studies

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Schmuckler, M.A.	IIA, 1.8, 1.11, 4.1.2.	2004	[Cymoxanil (DPX-T3217)]: Analysis of technical material used in toxicology testing GLP: No Published: No	Y	DuPont
Annex III Data and Information, Applicant A (DuPont)					
Anonymous	AIII, 1.4	2006	TSGE reply to data requirements (2006). Composition of the preparation DPX-KP 481 50WG GLP: No Published: No	Y	DuPont
Jin L., Gutsche O.	AIII, 1.4	2004	DPX-KP481 50 WG. Specifications and information on formulation ingredients. DuPont Report No. 11730 EU (2004) GLP: No Published: No	Y	DuPont
Vander- broeck, V., Cosgrove T.	AIII 1.2	2004	DPX-KP481 50WG. Document Number – DuPont-11710 EU. GLP: No Published: No	Y	DuPont

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Annex A: List of tests and studies

Cymoxanil

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Annex II Data and Information, Applicant B (Oxon):					
Anonymus	IIA 1.8	2006	Reply to data requirements identified by RMS, March 2006 GLP: No Published: No	Y	Oxon
Carvoli G.	IIA 1.8	2002	Cymoxanil: description of technical active ingredient production process Report: OXO-CYM-01 GLP: No Published: No	Y	Oxon
Fraschini, C.	IIA 1.11/01 IIA, 4.1.1/01 IIA, 4.1.2/01	1997	Cymoxanil technical: analytical profile of OXON production, Report 004/97 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIA 1.11/01 IIA, 4.1.1/01 IIA, 4.1.2/01	2003	Cymoxanil technical: analytical profile of OXON production, Report No. 001/2003 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIA, 4.1.1/01	2001	Cymoxanil 50 WP. Shelf life at ambient temperature, Report No. 005/99 GLP: Yes Published: No	Y	Oxon
Pallucca,E.	IIA 1.9	2006	Cymoxanil technical specification. Reply to data requirements identified by RMS GLP: No Published: No	Y	Oxon
Annex III Data and Information, Applicant B (Oxon):					
Anonymus	IIIA, 1.4	2006	Reply to data requirements identified by RMS. Document AIIS1T2, March 2006 GLP: No Published: No	Y	Oxon
Ciccotelli M.	IIIA, 1.4	2004	Cymoxanil 50% WP, Document Number, Oxon CYMO A3S5T2 2004 GLP: No Published: No	Y	Oxon

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A.2 Physical and chemical properties (Annex IIA 2, Annex IIIA 2)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Anderson, J.J., Horne, P., Lawler, S.M., Swain, R.S.	IIA, 2.9.2./01	1993	Photodegradation of [2-14C]DPX-T3217 (cymoxanil) in pond water and sterile buffer pH 5 DuPont Experimental Station AMR 1990-91 GLP: Yes Published: No	N	DuPont
Anderson, J.J., Lawler, S.M., Swain, R.S.	IIA, 2.9.3./01	1993	Quantum yield determination of DPX-T3217 (cymoxanil) and LC/MS confirmation of unknown degradates in sterile buffer pH 5 DuPont Experimental Station AMR 1990-91, Supplement No. 1 GLP: Yes Published: No	N	DuPont
Anderson, L.N.	IIA, 2.7./01	1993	Solubility of cymoxanil in organic solvents DuPont Experimental Station AMR 2541-92 GLP: Yes Published: No	N	DuPont
Betteley J.M.T.	IIA, 2.1.1./02 IIA, 2.3.2./02 IIA, 2.4.1./02 IIA, 2.5.1./03 IIA, 2.6./03 IIA, 2.7./02 IIA, 2.8./02 IIA, 2.9.4./02	1995a	Cymoxanil (pure): physicochemical properties Huntingdon Research Centre Ltd, UK OXN 57/950183 GLP: Yes Published: No	N	Oxon
Betteley J.M.T.	IIA, 2.4.2./02 IIA, 2.11.1./02 IIA, 2.11.2./02 IIA, 2.13./02 IIA, 2.14./01 IIA, 2.15./01	1995b	Cymoxanil (technical): physicochemical properties Huntingdon Research Centre Ltd, UK OXN 58/950197 GLP: Yes Published: No	N	Oxon
Goodyear, A.	IIA, 2.9.1./04 IIA, 2.9.2./03	2006	Cymoxanil Position Paper Identification of Cymoxanil Aquatic Degradation Products Report No. TSGE 4-3-4.PP1 GLP: No Published: No	Y	DuPont Oxon

Annex A: List of tests and studies

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Gravell, R.L.	IIA, 2.11.1/01 IIA, 2.11.2/01 IIA, 2.13./01 IIA, 2.15./02	1996	Auto-flammability, flammability, explosive and oxidizing properties of cymoxanil DuPont Experimental Station AMR 3510-95 GLP: Yes Published: No	N	DuPont
Hansen, S.W.	IIA, 2.6./02	2000	Solubility of cymoxanil in water DuPont Experimental Station DuPont-3711 GLP: Yes Published: No	Y	DuPont
Hatzenbeler, C.J., Moore, L.A.	IIA, 2.9.3/03	2004	Calculated Theoretical Lifetime for Cymoxanil in the Top Layer of Aqueous Systems DuPont Stine-Haskell Research Center DuPont-12330 GLP: No Published: No	Y	DuPont
Huntley, K.	IIA, 2.1.1./01	2000	Determination of the melting point/melting range for cymoxanil (DPX-T3217) ABC Laboratories, Inc. (Missouri) DuPont-4286 GLP: Yes Published: No	Y	DuPont
Huntley, K., Lowe, S.J.	IIA, 2.2./01	2000	Determination of relative density for cymoxanil (DPX-T3217) ABC Laboratories, Inc. (Missouri) DuPont-3821 GLP: Yes Published: No	Y	DuPont
Kleier, D.A.	IIA, 2.10./01	1997	Atmospheric oxidation rates for cymoxanil DuPont Stine Research Center CYMO/PRO 5 GLP: No Published: No	N	DuPont
Lawler, S.M.	IIA, 2.9.1./01	1996	Hydrolysis of cymoxanil (DPX-T3217) in buffer solutions of pH 5, 7, and 9 DuPont Experimental Station AMR 3677-95 GLP: Yes Published: No	N	DuPont

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Moore, L.A.	IIA, 2.6./01	1993	Solubility of cymoxanil in pH 5, 7, and 9 aqueous buffers DuPont Experimental Station AMR 2526-92 GLP: Yes Published: No	N	DuPont
Moore, L.A.	IIA, 2.5.1./02	1998	UV/visible absorption of cymoxanil DuPont Experimental Station AMR 4865-98 GLP: No Published: No	N	DuPont
Moore, L.A.	IIA, 2.4.1/01	2003	Cymoxanil (DPX-T3217): Appearance (color, odor, and physical state) DuPont Stine-Haskell Research Center DuPont-11983 GLP: No Published: No	Y	DuPont
Moore, L.A.	IIA, 2.4.2/01	2003	Cymoxanil (DPX-T3217): Appearance (color, odor, and physical state) DuPont Stine-Haskell Research Center DuPont-11983 GLP: No Published: No	Y	DuPont
Santos, L.M.	IIA, 2.8./01	1993	Octanol water partition coefficient of cymoxanil DuPont Experimental Station AMR 2581-92 GLP: Yes Published: No	N	DuPont
Schmuckler, M.E.	IIA, 2.3.2./01	1993	Volatility of cymoxanil DuPont Experimental Station AMR 2726-93 GLP: No Published: No	N	DuPont
Schmuckler, M.E.	IIA, 2.5.1./01	1998	Spectra of cymoxanil DuPont Experimental Station CYMO/PRO 6 GLP: No Published: No	N	DuPont
Schmuckler, M.E.	IIA, 2.16.1./01	2001	The calculated octanol water partition coefficient (Log Kow) and bioconcentration factor (BCF) of cymoxanil metabolite, IN-KQ960 DuPont Stine-Haskell Research Center DuPont-4620 GLP: No Published: No	Y	DuPont

Annex A: List of tests and studies

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Schmuckler, M.E.	IIA, 2.16.2./01	2001	The calculated octanol water partition coefficient (Log Kow) and bioconcentration factor (BCF) of cymoxanil metabolite, IN-T4226 DuPont Stine-Haskell Research Center DuPont-4622 GLP: No Published: No	Y	DuPont
Schmuckler, M.E.	IIA, 2.16.3./01	2001	The calculated octanol water partition coefficient (Log Kow) and bioconcentration factor (BCF) of cymoxanil metabolite, IN-U3204 DuPont Stine-Haskell Research Center DuPont-4621 GLP: No Published: No	Y	DuPont
Schmuckler, M.E.	IIA, 2.16.4./01	2001	The calculated octanol water partition coefficient (Log Kow) and bioconcentration factor (BCF) of cymoxanil metabolite, IN-W3595 DuPont Stine-Haskell Research Center DuPont-4623 GLP: No Published: No	Y	DuPont
Schmuckler, M.E.	IIA, 2.17.1./01	2001	The calculated solubility in water at 25°C of IN-W3595 DuPont Stine-Haskell Research Center DuPont-6450 GLP: No Published: No	Y	DuPont
Schmuckler, M.E.	IIA, 2.17.2./01	2001	The calculated solubility in water at 25°C of IN-U3204 DuPont Stine-Haskell Research Center DuPont-6449 GLP: No Published: No	Y	DuPont
Schmuckler, M.E.	IIA, 2.18./01	2001	The calculated pKa of IN-U3204 DuPont Stine-Haskell Research Center DuPont-6448 GLP: No Published: No	Y	DuPont
Schmuckler, M.E., Cooke, L.A.	IIA, 2.3.1./01	1993	Vapor pressure determination of cymoxanil at 20°C DuPont Experimental Station AMR 2537-92 GLP: Yes Published: No	N	DuPont

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Schmuckler, M.E., Moore, L.A.	IIA, 2.9.4./01	1993	Dissociation constant of cymoxanil DuPont Experimental Station AMR 2589-92 GLP: Yes Published: No	N	DuPont
Schmuckler, M.E., Lesieur, L.B.	IIA, 2.1.3./01	1993	Thermal stability of cymoxanil DuPont Experimental Station AMR 2620-93 GLP: Yes Published: No	N	DuPont
Serri, A.	IIA, 2.9.4./03	2002	Hypothesis on identity of dissociation products Oxon Italia S.p.A. CYM001-02 GLP: No Published: No	Y	Oxon
Van der Baan- Treur J.	IIA, 2.1.1./03 IIA, 2.1.3./02	2003	Determination of the melting and boiling temperature of cymoxanil technical by differential scanning calorimetry NOTOX BV, 's-Hertogenbosch, The Netherlands 374939 GLP: Yes Published: No	Y	Oxon
Willems, H.	IIA, 2.9.2/02 IIA, 2.9.3./02	2000	Photodegradation of Cymoxanil in Water NOTOX B.V., 's-Hertogenbosch, The Netherlands 257759 GLP: Yes Published: No	Y	Oxon
Willems, H.	IIA, 2.9.3/04	2003	Aquatic Photolysis of Cymoxanil Estimation of Lifetime in the Top Layer of Aqueous Systems (GC Solar Calculations) NOTOX B.V., 's-Hertogenbosch, The Netherlands 397439 GLP: No Published: No	Y	Oxon
Willems, H., Slangen, P.J., Hoitink, M.	IIA, 2.9.1./02	2003	Aqueous Hydrolysis of Cymoxanil NOTOX B.V., 's-Hertogenbosch, The Netherlands 308734 GLP: Yes Published: No	Y	Oxon

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Annex III Data and Information, Applicant A (DuPont)					
Bloemer, D.S.	IIIA, 2.8.6.3/01	2000	Attrition resistance of famoxadone/cymoxanil (25% active ingredient ratio) water-dispersible granular fungicide formulation DuPont Experimental Station DuPont-4188 GLP: No Published: No	N	DuPont
Gravell, R.L.	IIIA, 2.2.1/01	1996	Explosive and oxidizing properties, flammability of solids and spontaneous ignition of DPX-KP481 50% water-dispersible granular fungicide formulation DuPont Experimental Station AMR 3876-96 GLP: Yes Published: No	N	DuPont
Gravell, R.L.	IIIA, 2.2.2/01	1996	Explosive and oxidizing properties, flammability of solids and spontaneous ignition of DPX-KP481 50% water-dispersible granular fungicide formulation DuPont Experimental Station AMR 3876-96 GLP: Yes Published: No	N	DuPont
Gravell, R.L.	IIIA, 2.3/01	1996	Explosive and oxidizing properties, flammability of solids and spontaneous ignition of DPX-KP481 50% water-dispersible granular fungicide formulation DuPont Experimental Station AMR 3876-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.1./01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont

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Jourdainne, C.	IIIA, 2.6.2/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.7.1/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.8.1/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.8.2/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont

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Jourdainne, C.	IIIA, 2.8.5/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.8.6.1/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.8.6.2/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont
Jourdainne, C.	IIIA, 2.8.8.1/01	1997	Physical, chemical and technical properties of DPX-KP481 water-dispersible granular fungicide formulation (WG) DuPont European Research and Development Centre (ERDC) AMR 3833-96 GLP: Yes Published: No	N	DuPont

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Santos, L.S.	IIIA, 5.1.1/03	1996	Analytical method to verify the certified limits of cymoxanil (DPX-T3217) and DPX JE874 in water dispersible granules DPX-KX007-2 (containing 300 g/kg Cymoxanil and 225 g/kg DPX-JE874) and DPXKP481-25 (containing 250 g/kg cymoxanil and 250 g/kg famoxadone). DuPont Experimental Station AMR 3784-96 GLP: Yes Published: No	N	DuPont
Thuet, E.	IIIA, 2.7.3/01	1998	Shelf life stability of DPX-KP481 water-dispersible granular fungicide formulation (WG) in a high density polyethylene container DuPont European Research and Development Centre (ERDC) AMR 3835-96 GLP: No Published: No	N	DuPont
Thuet, E.	IIIA, 2.9/01	1997	Physical and chemical compatibility of DPX-KP481 water dispersible Granular (WG) fungicide formulation with tnak mix partners, DuPont Study AMR 4255-96 GLP: No Published: No	N	DuPont
Thuet, E.	IIIA, 2.11/01	1998	Summary report of physical and chemical characteristics of end-use product DPX-KP481 50 water-dispersible granular fungicide formulation DuPont Experimental Station, DuPont European Research and Development Centre (ERDC) AMR 5179-98 GLP: Yes Published: No	N	DuPont
Annex III Data and Information, Applicant B (Oxon):					
Chiesa I.	IIIA 2.9.2	2003	Cymoxanil 50WP (Chemical compatibility with mancozeb and fluazinam based products. SIPCAM S.p.A., Italy, Report 002/03 GLP: No Published: No	Y	Oxon
Cigna E.	IIIA 1.4	2003	Cymoxanil 50 WP: composition Confidential information GLP: No Published: No	Y	Oxon

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D'Olimpo P.	IIIA 2.2, 2.3, 2.5	2000	Physical and chemical characterization of Cymoxanil 50 % WP EniChem S.p.A., Italy, Report 020/00 GLP: Yes Published: No	Y	Oxon
Fraschini C.	IIIA 2.1, 2.4, 2.6-2.8	1999	Cymoxanil 50 % WP (Physical, chemical and technical properties). SIPCAM S.p.A., Italy, Report 004/99 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIIA 2.7.3	2000	Cymoxanil 50 WP: shelf life at ambient temperature SIPCAM S.p.A., Italy, Report 005/99 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIIA 2.8/02	2004	Comparison of Persistent foaming, Suspensibility, and Wet Sieve test on CYMOXANIL 50% WP with and without Water Soluble Bag (WSB) SIPCAM S.p.A., Italy, Report 023/2004 GLP: Yes Published: No	Y	Oxon
Hale S.	IIIA 2.9.1/01	2001a	Physical compatibility of tank mixes (fluazinam). Agriseach UK Ltd., UK, Report AC/5609/SP-1 GLP: No Published: No	Y	Oxon
Hale S.	IIIA 2.9.1/02	2001b	Physical compatibility of tank mixes (mancozeb) Agriseach UK Ltd., UK, Report AC/5609/SP-2 GLP: No Published: No	Y	Oxon
Hale S.	IIIA 2.9.1/03	2001c	Physical compatibility of tank mixes (mancozeb) Agriseach UK Ltd., UK, Report AC/5609/SP-3 GLP: No Published: No	Y	Oxon

A.3 Further information (Annex IIA 3, Annex IIIA 3 and 4)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protectio n Claimed Y/N-R/NR	Owner
Annex II Data and Information, Applicant A (Dupont):					
Vanderbroeck, V., Moore L., Ciccotelli, M.	IIA. 4.1	2005	Tier II summaries: Identity of the active substance, physical and chemical properties, further information CymoA2S1T1 2004, May 2005 GLP: No Published: No	N	DuPont/ Oxon
Annex II Data and Information, Applicant B (Oxon):					
Lucini L.	IIA 4.2/02	2003	Cleaning efficiency in Cymoxanil residues removal from clothes. CERZOO, Italy, Report CZ/03/013/OXON/CYMLAV GLP: No Published: No	Y	Oxon
Annex III Data and Information, Applicant A (Dupont):					
Perrin, J.L.	IIIA, 4.1.3/01	1998	Packaging compatibility and suitability testing for water-dispersible granular formulation DPX-KP481 (Interim report) DuPont European Research and Development Centre (ERDC) AMR 4967-98 GLP: No Published: No	N	DuPont
Cahill, W.R.	IIIA, 4.2/01	1998	Laboratory cleanout of DPX-KP481 50% water-dispersible granular fungicide formulation DuPont Experimental Station AMR 4805-97 GLP: No Published: No	N	DuPont
Annex II Data and Information, (Applicant B (Oxon):					
Anonymus	IIIA 4.1.1	-	Cymoxanil 50 % WP: water soluble complete packaging SIPCAM S.p.A., Italy, Report n.a. GLP: No Published: No	Y	Oxon
Freschi G.	IIIA 4.2/01	2003	Cymoxanil 50%WP: Sprayability test and cleaning of the field sprayer equipment. SIPCAM S.p.A., Italy, Report 006/2003 GLP: Yes Published: No	Y	Oxon

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Santarella M.	IIIA 4.1.2	1992	Certificato di omologazione di un imballaggio di tipo combinato cassa cartone 4G, destinato al trasporto di merci pericolose. Istituto Sperimentale Area Merci Pericolose, Italy, Report TC.I/S/082.510/29783 GLP: No Published: No	Y	Oxon

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A.4 Classification, packaging and labelling (Annex IIA 10, Annex IIIA 12.3 and 12.4)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Sarver, J. W.	IIA, 5.2.1	1992	Acute oral toxicity study with DPX-T3217-113 (Cymoxanil) in male and female rats [REDACTED] [REDACTED] [REDACTED] Report No. 63-92 GLP not published	N	DuPont
Allan, S. A.	IIA, 5.2.6	1994	Cymoxanil: skin sensitization in the guinea pig [REDACTED] Report No. OXN 44/940205/SS GLP not published	N	OXON
Ramesh, E.	IIA, 5.3.1	1999a	Cymoxanil technical: 28-day dietary range finding study in rats [REDACTED] Report No. 2140/96 GLP not published	Y	OXON
Malek, D., E.	IIA, 5.3.2	1992	Subchronic oral toxicity: 90-day study with DPX-T3217-107 (cymoxanil) feeding and neurotoxicity study in rats, revision no. 1 [REDACTED] [REDACTED] Report no. [REDACTED] 370-91 GLP not published	N	DuPont
Teunissen, M. S.	IIA, 5.3.2	2003	52 week oral dietary toxicity study with cymoxanil technical in male and female Beagle dogs [REDACTED] Report No. [REDACTED] 338335 GLP not published	Y	OXON
Tompkins, E. C.	IIA, 5.3.2	1993	Subchronic oral toxicity: 90-day study with DPX-T3217-113 (cymoxanil) feeding study in dogs [REDACTED] Report No. HLO 797-92 GLP not published	N	DuPont

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Feussner, E. L.; Christian, M. S.; Christian, G. D.	IIA, 5.6.2	1982	Teratogenicity study of INT-3217 in New Zealand white rabbits (segment II evaluation) [REDACTED] Report No. HL 467-82 GLP (Quality assurance unit final report statement available) not published	N	DuPont
Murray, S.	IIA, 5.6.2	1993	Developmental toxicity study of DPX-T3217-113 (cymoxanil) in rats [REDACTED] [REDACTED] [REDACTED] Report No. HLR 744-92 GLP not published	N	DuPont
Ponnana, D.	IIA, 5.6.2	1999	Teratogenicity in rabbits with cymoxanil technical [REDACTED] Report No. 2151/96 GLP not published	Y	OXON
Palmer, A. K.; James, P.; Cox, R.; Clark, R.	IIA, 5.6.2	1981	Effect of H 12712 on pregnancy of the New Zealand white rabbit [REDACTED] [REDACTED] Report No. HLO-805-81 GLP not published	N	DuPont
Veena, A. S.	IIA, 5.6.2	1998	Teratogenicity in Wistar rats with cymoxanil technical [REDACTED] Report No. 2150/96 GLP not published	Y	OXON
Seifert, J.	IIA, 5.9.1	2002	Preventive occupational medical examinations [REDACTED] no GLP not published	Y	OXON
Annex III Data and Information					

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
CYMOXANIL 50 % WP					
McRea, L., A.	IIIA, 7.1.1	1995a	Cymoxanil 50 % WP: Acute oral toxicity study to the rat [REDACTED] Report no. OXN 113a/950083/AC GLP not published	Y	OXON
TANOS (DPX-KP481-25 50WG)					
Finlay, C.	IIIA, 7.1.1	1997a	Acute oral toxicity study with DPX-KP481-25 50WG in male and female rats [REDACTED] Report no. HLR 1048-96 GLP not published	N	DuPont
Moore, G., E.	IIIA, 7.1.6	1996	Guinea pig dermal sensitization – modified Buehler method with DPX-KP481-25 50WG [REDACTED] Report no. HLO 628-96 GLP not published	N	DuPont

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A.5 Methods of analysis (Annex IIA 4, Annex IIIA 5)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Cabusas, M.E.Y.	IIA, 4.2.3/01	1999	Analytical method for the determination of cymoxanil in drinking, ground, and surface water using liquid chromatography with ultraviolet detection DuPont Experimental Station DuPont-2126 GLP: No Published: No	Y	DuPont
E.I. du Pont	IIA, 4.1.1/01	1995	Determination of cymoxanil in technical cymoxanil. Reversed-phase liquid chromatographic (RPLC) assay method DuPont Experimental Station T3217.220.01.ES, Revision No. 1 GLP: No Published: No	N	DuPont
Fraschini C.	IIA, 4.1.2	1997	Cymoxanil techn. Analytical Profile of Oxon Production. Final study, Sipcam report No. 004/97 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIA, 4.1.2	2003	Cymoxanil techn. Analytical Profile of Oxon Production. Final study, Sipcam report No. 001/2003 GLP: Yes Published: No	Y	Oxon
Freschi G.	IIA, 4.1.2	2001	Cymoxanil 50 WP, Shelf life at ambient temperature. Sipcam Report 005/99 GLP: Yes Published: No	Y	Oxon
Freschi, G.	IIA, 4.2.1/03	2003a	Applicability and validation of a multiresidues analytical method on lettuce specimens (plant) SIPCAM S.p.A, Salerano sul Lambro, Italy UAR/001/2003 GLP: No Published: No	Y	Oxon
Freschi, G.	IIA, 4.2.1/04	2003b	Applicability and validation of a multiresidues analytical method on potato specimens (tuber) SIPCAM S.p.A, Salerano sul Lambro, Italy UAR/002/2003 GLP: No Published: No	Y	Oxon

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Freschi, G.	IIA, 4.2.1/05	2002	Validation of the analytical method for determination of residues of cymoxanil in lettuces (plant) SIPCAM S.p.A, Salerano sul Lambro, Italy SIP1279 GLP: Yes Published: No	Y	Oxon
Freschi, G.	IIA, 4.2.1/06	2001	Validation of the analytical method for determination of residues of cymoxanil in potato (tuber) SIPCAM S.p.A, Salerano sul Lambro, Italy SIP1277 GLP: Yes Published: No	Y	Oxon
Kretschmer, S., Class, T.	IIA, 4.2.1/01	1999	Method assessment and validation of an analytical multi-residue enforcement method (DFG S19 modified) for the determination of residues of cymoxanil in plant material (grape, potato, tomato, hops cones, post- cured tobacco). PTRL Europe DuPont-2158 GLP: Yes Published: No	Y	DuPont
Linkerhagner, M.	IIA, 4.2.1/02	1999	Independent laboratory validation (ILV) of a multi-residue enforcement method (DFG S19 modified) for the determination of cymoxanil in dry, high water, and oily crops Dr. Specht & Partner, Germany DuPont-2946 GLP: Yes Published: No	Y	DuPont
Melkebeke, T.	IIA, 4.2.2/01	2000a	Validation of an analytical method for the determination of cymoxanil residues in soil Notox B.V., 's-Hertogenbosch, The Netherlands 281802 GLP: Yes Published: No	Y	Oxon
Melkebeke, T.	IIA, 4.2.4/01	2000b	Validation of an analytical method for the determination of cymoxanil in air Notox B.V., 's-Hertogenbosch, The Netherlands 257805 GLP: No Published: No	Y	Oxon
Wasser, C.	IIA, 4.2.1/07	2002	Validation of analytical method for determination of residues of cymoxanil in specimens of tomato, grapes, potatoes and lettuce, Anadiag S.A., Haguenau France, A0087 GLP: Yes Published: No	Y	Oxon

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Annex III Data and Information					
Flament, C.	IIIA, 5.1.1./01	1999a	Validation of the analytical method to verify the certified limits of cymoxanil (DPX-T3217) and famoxadone (DPX-JE874) in: DuPont water-dispersible granular formulation DPX-KX007, containing 300 g/kg cymoxanil and 225 g/kg famoxadone; DuPont suspension concentration formulation DPX-KX007, containing 240 g/L cymoxanil and 180 g/L famoxadone; DuPont water-dispersible granular formulation DPX-KP481, containing 250 g/kg cymoxanil and 250 g/kg famoxadone, Method 2 DuPont European Research and Development Centre (ERDC) DuPont-1916 GLP: Yes Published: No	N	DuPont
Flament, C.	IIIA, 5.1.1./02	1999b	Validation of the analytical method to verify the certified limits of cymoxanil (DPX-T3217) and famoxadone (DPX-JE874) in: DuPont water-dispersible granular formulation DPX-KX007, containing 300 g/kg cymoxanil and 225 g/kg famoxadone; DuPont suspension concentration formulation DPX-KX007, containing 240 g/L cymoxanil and 180 g/L famoxadone; DuPont water-dispersible granular formulation DPX-KP481, containing 250 g/kg cymoxanil and 250 g/kg famoxadone DuPont European Research and Development Centre (ERDC) DuPont-1659 GLP: Yes Published: No	N	DuPont
Santos, L.S.	IIIA, 5.1.1./03	1996	Analytical method to verify the certified limits of cymoxanil (DPX-T3217) and DPX-JE874 in water-dispersible granules DPX-KX007-2 (containing 300 g/kg cymoxanil and 225 g/kg DPX-JE874) and DPX-KP481-25 (containing 250 g/kg cymoxanil and 250 g/kg famoxadone) DuPont Experimental Station AMR 3784-96 GLP: Yes Published: No	N	DuPont
Vindevoghel, C.	IIIA, 5.1.1./04	1999	Validation of the analytical method to verify the certified limits of cymoxanil (DPX-T3217) and famoxadone (DPX-JE874) in: DuPont water-dispersible granular formulation DPX-KX007, containing 300 g/kg cymoxanil and 225 g/kg famoxadone;	N	DuPont

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			DuPont suspension concentration formulation DPX-KX007, containing 240 g/L cymoxanil and 180 g/L famoxadone; DuPont water-dispersible granular formulation DPX-KP481, containing 250 g/kg cymoxanil and 250 g/kg famoxadone, Method 3 DuPont European Research and Development Centre (ERDC) DuPont-2731 GLP: Yes Published: No		
Freschi G.	IIIA 5.1	2000	Cymoxanil 50 WP: shelf life at ambient temperature SIPCAM S.p.A., Italy, Report 005/99 GLP: Yes Published: No	Y	Oxon

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A.6 Toxicology and metabolism (Annex IIA 5, Annex IIIA 7)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Allan, S. A.	IIA, 5.2.6	1994	Camoxanil: skin sensitization in the guinea pig [REDACTED] Report No. OXN 44/940205/SS GLP not published	N	OXON
Armondi, S.	IIA, 5.2.6	1992	Closed-patch repeated insult dermal sensitization study (Maximization method) with DPX-T3217-113 (cymoxanil) in guinea pigs [REDACTED] Report No. 255-92 GLP not published	N	DuPont
Bentley, K. S.	IIA, 5.4.1	1993	Assessment of DPX-T3217-113 (cymoxanil technical) in the in vitro unscheduled DNA synthesis assay in primary rat hepatocytes E.I. du Pont de Nemours and Company Haskell Laboratory for Toxicology and Industrial Medicine, Delaware Report No. HLR 796-92 GLP not published	N	DuPont
Bentley, K., S.	IIA, 5.4.2	1994	Determination of unscheduled DNA synthesis in rat hepatocytes and spermatocytes following in vivo exposure to DPX-T3217-113 (cymoxanil technical) by oral gavage [REDACTED] Report No. HLR 169-94 GLP not published	N	DUPONT
Brown, L., J.; Dunsire, J. P.; Johnston, A. M.; Lee, P. W.	IIA, 5.1	1995	The absorption, distribution, metabolism and excretion of [2-14C]-DPX-T3217 in the rat including supplement no. 2 [REDACTED] Report No. AMR 2083-91 GLP not published	N	DuPont

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Cortina, T.	IIA, 5.4.2	1982	In vivo bone marrow cytogenetic assay in rats [REDACTED] Report No. HLO 3-83 GLP not published	N	DuPont
Covell, D., L.	IIA, 5.4.1	1993	In vitro evaluation of DPX-T3217-113 (cymoxanil technical) for chromosome aberrations in human lymphocytes E.I. du Pont de Nemours and Company Haskell Laboratory for Toxicology and Industrial Medicine, Delaware Report No. HLR 835-92 GLP not published	N	DuPont
Cox, L., R.	IIA, 5.5	1994a	Combined chronic toxicity/oncogenicity study with DPX-T3217-113 (cymoxanil) Two-year feeding study in rats [REDACTED] [REDACTED] [REDACTED] Report No. HLR 678-93 GLP not published	N	DuPont
Cox, L., R.	IIA, 5.5	1994b	Oncogenicity study with DPX-T3217-113 (cymoxanil) Eighteen-month feeding study in mice [REDACTED] [REDACTED] [REDACTED] Report No. HLR 677-93 GLP not published	N	DuPont
Cozens, D. D.; Edwards, J. A.; Clark, R.	IIA, 5.6.2	1980	Effect of H 12712 on pregnancy of the New Zealand white rabbit [REDACTED] [REDACTED] Report No. DPT/93/80266 GLP not published	N	DuPont
Dashiell, O. L.	IIA, 5.8.1	1976	Acute oral test on IN-3204 [REDACTED] [REDACTED] [REDACTED] Report no. HLR 148-76 no GLP not published	N	DuPont

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Feussner, E. L.; Christian, M. S.; Christian, G. D.	IIA, 5.6.2	1982	Teratogenicity study of INT-3217 in New Zealand white rabbits (segment II evaluation) [REDACTED] Report No. HL 467-82 GLP (Quality assurance unit final report statement available) not published	N	DuPont
Finlay, C.	IIA, 5.3.3	1996	Repeated dose dermal toxicity: 28-day study with DPX-T3217-113 (cymoxanil) in rats [REDACTED] Report No. HLR 374-96 GLP not published	N	DuPont
Freulon, I.	IIA, 5.2.6	2003	Skin sensitisation study in the guinea pig (Magnusson-Kligman Maximisation) [REDACTED] Report No. 20030095 GLP not published	Y	OXON
Frieling, W., J., A., M.	IIA, 5.1	2003	Metabolism of 14C-cymoxanil in the Sprague-Dawley rat after a single oral dose [REDACTED] Report No. 347513 GLP not published	Y	OXON
Ganiger, S.	IIA, 5.6.1	2001	Two generation reproduction toxicity study with cymoxanil technical in Wistar rats [REDACTED] Report No. 2155/96 GLP not published	Y	OXON
Geetha Rao, G.	IIA, 5.4.2	1999	Mutagenicity study – micronucleous test in Swiss albino mice with cymoxanil technical [REDACTED] Report No. 2611/99 GLP not published	Y	OXON

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Gerber, K., M.	IIA, 5.4.2	1993	Mouse bone marrow micronucleous assay of DPX-T3217-113 (cymoxanil technical) [REDACTED] [REDACTED] Report No. HLR 827-92 GLP not published	N	DuPont
Goodman, N., C.	IIA, 5.8.1	1975	Acute oral test on IN-3204 [REDACTED] [REDACTED] Report no. HLR 16-75 no GLP not published	N	DuPont
Imbriani, M.	IIA, 5.9.1	2002	Medical surveillance on manufacturing plant protection personnel [REDACTED] no GLP not published	Y	OXON
Johnson, S.; Johnston, A. M.; McCorquodale, G. Y.; Prout, M. S.	IIA, 5.1	1997	Biliary excretion of [14C]cymoxanil in the rat. The identification of a urinary metabolite of [14C]cymoxanil in the biliary cannulated rat [REDACTED] Report No. AMR 3326-95. Supplement no. 1 GLP not published	N	DuPont
Kamath, H., G.	IIA, 5.4.1	1997	Genetic toxicology: Salmonella typhimurium reverse mutation assay with cymoxanil technical Rallis Research Centre, India Report No. TOXI. 2146/96-MUT-AMES GLP not published	N	OXON
Kato, T.	IIA, 5.4.1	1994	Cymoxanil: Reverse mutation test The Institute of Environmental Toxicology, Japan Report No. IET 93-0094 GLP not published	N	DuPont
Kreckmann, K. H.	IIA, 5.6.1	1993	Reproductive and fertility effects with DPX-T3217-113 (cymoxanil) multigeneration reproduction study in rats [REDACTED] [REDACTED] [REDACTED] Report No. HLR 568-93 GLP not published	N	DuPont

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Krishanappa, H	IIA, 5.3.1	1999a	Cymoxanil technical: 28-day dietary range finding study in Swiss Albino mice [REDACTED] Report No. 2141/96 GLP not published	Y	OXON
Krishanappa, H	IIA, 5.3.2	1999 b	Subchronic (90 day) oral toxicity study with cymoxanil technical in Swiss albino mice [REDACTED] Report No. 2144/96 GLP not published	Y	OXON
Krishnappa, H.	IIA, 5.5	2002	Cancerogenicity study with cymoxanil technical in Swiss albino mice [REDACTED] Report No. 2152/96 GLP not published	Y	OXON
Ladics, G. S.	IIA, 5.8.2	1999a	Cymoxanil technical (DPX-T3217): 28-day immunotoxicology study in rats [REDACTED] [REDACTED] Report no. DuPont-1799 GLP not published	Y	DuPont
Ladics, G. S.	IIA, 5.8.2	1999b	Cymoxanil technical (DPX-T3217): 28-day immunotoxicology study in mice [REDACTED] [REDACTED] [REDACTED] Report no. DuPont-1998 GLP not published	Y	DuPont
Malek, D., E.	IIA, 5.3.2	1992	Subchronic oral toxicity: 90-day study with DPX-T3217-107 (cymoxanil) feeding and neurotoxicity study in rats, revision no. 1 [REDACTED] [REDACTED] [REDACTED] Report no. HLR 370-91 GLP not published	N	DuPont

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Malek, D., E.	IIA, 5.8.2	1992	Subchronic oral toxicity: 90-day study with DPX-T3217-107 (cymoxanil) feeding and neurotoxicity study in rats, revision no. 1 [REDACTED] [REDACTED] Report no. HLR 370-91 GLP not published	N	DuPont
Malek, D., E.	IIA, 5.9.1	1997	Medical examination summaries of employees manufacturing and formulating DuPont cymoxanil fungicides; [REDACTED] [REDACTED] no GLP not published	N	DuPont
Malleshappa, H. N.	IIA, 5.5	2003	Combined chronic toxicity and carcinogenicity study with cymoxanil technical in Wistar rats [REDACTED] Report No. 2611/99 GLP not published	Y	OXON
McCorquodale, G. Y. ; Prout, M. S.	IIA, 5.1	1995	Biliary excretion of [14C]cymoxanil in the rat [REDACTED] Report No. AMR 3326-95 GLP not published	N	DuPont
Murray, S.	IIA, 5.6.2	1993	Developmental toxicity study of DPX-T3217-113 (cymoxanil) in rats [REDACTED] [REDACTED] Report No. HLR 744-92 GLP not published	N	DuPont
Palmer, A. K., James, P., Cox, R., Clark, R.	IIA, 5.6.2	1981	Effect of H 12712 on pregnancy of the New Zealand white rabbit [REDACTED] [REDACTED] Report No. HLO-805-81 GLP not published	N	DuPont

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Panepinto, A. S.	IIA, 5.2.3	1992	Acute inhalation toxicity study with DPX-T3217-115 (cymoxanil) in rats [REDACTED] Report No. 83-92 GLP not published	N	DuPont
Parcell, B. I.	IIA, 5.2.2	1994a	Cymoxanil technical: acute dermal toxicity to the rat [REDACTED] Reprot No. OXN 41/940326/AC GLP not published	N	OXON
Parcell, B. I.	IIA, 5.2.4	1994b	Cymoxanil: skin irritation to the rabbit [REDACTED] Report No. OXN 42/940217/SE GLP not published	N	OXON
Parcell, B. I.	IIA, 5.2.5	1994c	Cymoxanil: eye irritation to the rabbit [REDACTED] Report No. OXN 43/940244/SE GLP not published	N	OXON
Ponnana, D.	IIA, 5.6.2	1999	Teratogenicity in rabbits with cymoxanil technical [REDACTED] Report No. 2151/96 GLP not published	Y	OXON
Ramesh, E.	IIA, 5.3.1	1999a	Cymoxanil technical: 28-day dietary range finding study in rats [REDACTED] Report No. 2140/96 GLP not published	Y	OXON
Ramesh, E.	IIA, 5.3.2	1999b	Subchronic (90 day) oral toxicity study with cymoxanil technical in Wistar rats [REDACTED] Report No. 2143/96 GLP not published	Y	OXON

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Reynolds, V., L.	IIA, 5.4.1	1993	Mutagenic evaluation of DPX-T3217-113 (cymoxanil technical) in the CHO/HPRT assay [REDACTED] Report No. HLR 826-92 GLP not published	N	DuPont
Sarver, J. W.	IIA, 5.2.1	1992	Acute oral toxicity study with DPX-T3217-113 (Cymoxanil) in male and female rats [REDACTED] Report No. 63-92 GLP not published	N	DuPont
Seifert, J.	IIA, 5.9.1	2002	Preventive occupational medical examinations [REDACTED] no GLP not published	Y	OXON
Shivaram, S.	IIA, 5.4.1	1998	Genetic toxicology: In vitro mammalian cell gene mutation test with cymoxanil technical Rallis Research Centre, India Report No. 2147/96 GLP not published	N	OXON
Shivaram, S.	IIA, 5.4.1	2000	In vitro mammalian chromosome aberration test with cymoxanil technical Rallis Research Centre, India Report No. 2148/96 GLP not published	Y	OXON
Teunissen, M. S.	IIA, 5.3.2	2003	52 week oral dietary toxicity study with cymoxanil technical in male and female Beagle dogs [REDACTED] Report No. [REDACTED] Project 338335 GLP not published	Y	OXON
Tompkins, E. C.	IIA, 5.3.2	1993	Subchronic oral toxicity: 90-day study with DPX-T3217-113 (cymoxanil) feeding study in dogs [REDACTED] Report No. HLO 797-92 GLP not published	N	DuPont

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Tompkins, E. C.	IIA, 5.3.2	1994	Chronic oral toxicity study with DPX-T3217-113 (cymoxanil) one year feeding study in dogs [REDACTED] Report No. HLO 65-94 GLP not published	N	DUPONT
Triolo, A.; Canali, S.; Neuteboom, B.; Oberto, G.; Peretti, G.	IIA, 5.1	1999	14C-cymoxanil: pharmacokinetics in the rat after single oral administration at the doses of 10 and 100 mg/kg [REDACTED] Report No. 980402 GLP not published	Y	OXON
Triolo, A.; Canali, S.; Neuteboom, B.; Oberto, G.; Peretti, G.	IIA, 5.1	2000	14C-cymoxanil: pharmacokinetics in the rat after repeated oral administration [REDACTED] Report No. 980403 GLP not published	Y	OXON
Veena, A. S.	IIA, 5.6.2	1998	Teratogenicity in Wistar rats with cymoxanil technical [REDACTED] Report No. 2150/96 GLP not published	Y	OXON
Venugopala, K.	IIA, 5.3.2	1999	Subchronic (90 day) oral toxicity study with cymoxanil technical in Beagle dogs [REDACTED] Report No. 2145/96 GLP not published	Y	OXON
Willems, H.	IIA, 5.1	2001	Chromatographic investigation of samples obtained from a metabolism study in rat with cymoxanil [REDACTED] Report No. 262452 GLP not published	Y	OXON

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York, R., G.	IIA, 5.8.2	2001	Cymoxanil: oral (gavage) developmental neurotoxicity study of cymoxanil in CrI:CD®(SD)IGS BR VAF/Plus® presumed pregnant rats [REDACTED] Report no. DuPont 3146 GLP not published	Y	DuPont
York, R., G.	IIA, 5.8.2	2003	Cymoxanil: oral (gavage) developmental neurotoxicity study of cymoxanil in CrI:CD®(SD)IGS BR VAF/Plus® presumed pregnant rats (Supplement No. 1) [REDACTED] Report no. DuPont 3146 GLP not published	Y	DuPont
Annex III Data and Information					
CYMOXANIL 50 % WP					
Jackson, G., C.	IIIA, 7.1.3	1996	Cymoxanil 50 % WP: Acute inhalation toxicity in rats 4-hour snout-only exposure [REDACTED] Report no. OXN 98/950741 GLP not published	Y	OXON
McRea, L., A.	IIIA, 7.1.1	1995a	Cymoxanil 50 % WP: Acute oral toxicity study to the rat [REDACTED] Report no. OXN 113a/950083/AC GLP not published	Y	OXON
McRea, L., A.	IIIA, 7.1.2	1995b	Cymoxanil 50 % WP: Acute oral toxicity study to the rat [REDACTED] Report no. OXN 122a/950084/AC GLP not published	Y	OXON
Renold, A.	IIIA, 7.1.4	2000a	Camoxanil 50% WP: Acute dermal irritation study in rabbits (occlusive patch) [REDACTED] Report no. 990886 GLP not published	Y	OXON

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Renoldi, A.	IIIA, 7.1.5	2000b	Camoxanil 50% WP: Acute eye irritation study in rabbits [REDACTED] [REDACTED] Report no. 990887 GLP not published	Y	OXON
Vigna, E.	IIIA, 7.1.6	2000	Skin sensitization test in Guinea-pigs treated with the test article Camoxanil 50% WP [REDACTED] [REDACTED] Report no. 990888 GLP not published	Y	OXON
TANOS (DPX-KP481-25 50WG)					
Bamberger, J., R.	IIIA, 7.1.3	1998	Cymoxanil/Famoxadone (DPX-KP481) 50WG: Inhalation median lethal concentration (LC ₅₀) study in rats [REDACTED] [REDACTED] Report no. DuPont-1511 GLP not published	N	DuPont
Clowes, H., M.	IIIA, 7.3	2000	Cymoxanil: In vitro absorption from 3 formulations and 2 aqueous dilutions of each through human and rat epidermis Central Toxicology Laboratory, Macclesfield, UK Report no. DuPont-1225 GLP not published	Y	DuPont
Finlay, C.	IIIA, 7.1.1	1997a	Acute oral toxicity study with DPX-KP481-25 50WG in male and female rats [REDACTED] [REDACTED] Report no. HLR 1048-96 GLP not published	N	DuPont

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Finlay, C.	IIIA, 7.1.2	1997b	DPX-KP481-25 50WG: Acute dermal toxicity study in rats [REDACTED] [REDACTED] Report no. HLR 1124-96 GLP not published	N	DuPont
Finlay, C.	IIIA, 7.1.4	1997c	DPX-KP481-25 50WG: Primary dermal irritation study in rabbits [REDACTED] [REDACTED] Report no. HLR 1107-96 GLP not published	N	DuPont
Finlay, C.	IIIA, 7.1.5	1998	DPX-KP481-25 50WG: Primary eye irritation study in rabbits [REDACTED] [REDACTED] Report no. HLR 1131-96 GLP not published	N	DuPont
Hinderliter, P. M.	IIIA, 7.3	2004	Cymoxanil/famoxadone (DPX-KP481) 50WG (1:1): <i>In vivo</i> dermal kinetics of cymoxanil in the rat [REDACTED] [REDACTED] Report no. DuPont-13906 GLP not published	Y	DuPont
Moore, G., E.	IIIA, 7.1.6	1996	Guinea pig dermal sensitization – modified Buehler method with DPX-KP481-25 50WG [REDACTED] Report no. HLO 628-96 GLP not published	N	DuPont

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A.7 Residue data (Annex IIA 6, Annex IIIA 8 and 12.2)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Anderson, J.J., Gaddamidi, V., Moghaddam, M.F., Swain, R.S., Hashinger, B.M., Lilly, D.E.	IIA, 6.2/01	1996	The distribution of [2- ¹⁴ C]-DPX-T3217 (cymoxanil) in the lactating goat (nature of residue study to EPA guidelines) [REDACTED] AMR 2084-91 GLP: Yes Published: No	Y	DuPont
Domenichini, P.	IIA, 6.3/02	2001	Generation of lettuce specimens suitable for residue analysis following applications of Cymoxanil 50% WP (field phase) Sipcam Experimental Service, Italy CY1/LA GLP: Yes Published: No	Y	Oxon
Freschi, G.		2001a	Residue analysis of cymoxanil in lettuce samples (plant) (analytical phase). Sipcam Residues Analysis Unit, Italy SIP1264 GLP: Yes Published: No	Y	
Domenichini, P.	IIA, 6.3/03	2003a	Generation of lettuce plant samples, suitable for residue analysis (RAC and decline curve) following applications of Cymoxanil 50% WP (field phase) Sipcam Experimental Service, Italy CY2 GLP: Yes Published: No	Y	Oxon
Freschi, G.		2001b	Residue analysis of cymoxanil in lettuce samples (plant) (analytical phase). Sipcam Residues Analysis Unit, Italy SIP1297 GLP: Yes Published: No	Y	

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Domenichini, P.	IIA, 6.3/07	1997	Generation of crop samples suitable for residue analysis following applications of cymoxanil + mancozeb, cymoxanil + Cu-oxychloride, cymoxanil + chlorothalonil (field phase) Sipcam Experimental Service, Italy COF/1 GLP: Yes Published: No	N	Oxon
Wasser, C.		1997	Determination of the residues of cymoxanil in grapes, potatoes and tomatoes in Italy, 1996 (analytical phase). Anadiag S.A., France R 6124 GLP: Yes Published: No	N	
Domenichini, P.	IIA, 6.3/08	1998	Generation of crop samples suitable for residue analysis following applications of cymoxanil + mancozeb, cymoxanil + Cu-oxychloride, cymoxanil + chlorothalonil (2 nd year of trial) (field phase) Sipcam Experimental Service, Italy COF/2 GLP: Yes Published: No	Y	Oxon
Wasser, C.		1999	Magnitude of residues of cymoxanil in samples of grapes, tomatoes and potatoes (analytical phase). Anadiag S.A., France R 7180 GLP: Yes Published: No	Y	
Domenichini, P.	IIA, 6.3/09	2003b	Generation of potato tuber samples, suitable for residue analysis (decline curve) following applications of (cymoxanil 6% + mancozeb 70%) WP (field phase) Sipcam Experimental Service, Italy CY2/I/02PA GLP: Yes Published: No	Y	Oxon
Freschi, G.		2001c	Residue analysis of cymoxanil in potato samples (tuber) (analytical phase). Sipcam Residues Analysis Unit, Italy SIP1298 GLP: Yes Published: No	Y	

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Dubey, L., Jernberg, K.M.	IIA, 6.3/04	1997a	Magnitude of DPX-JE874 and cymoxanil residues in/on soil and potatoes grown in the southern European region-1996 season Battelle Europe-Centre de Recherche de Geneve AMR 3767-96 GLP: Yes Published: No	N	DuPont
Dubey, L., Jernberg, K.M	IIA, 6.3/05.	1997b	Magnitude of DPX-JE874 and cymoxanil residues in/on soil and potatoes grown in the northern European region-1996 season Battelle Europe-Centre de Recherche de Geneve AMR 3788-96 GLP: Yes Published: No	N	DuPont
Fox, G.C.	IIA, 6.1/01	1999	Metabolism of [2- ¹⁴ C]cymoxanil in lettuce DuPont Experimental Station; Wilmington, Delaware, USA AMR 4375-97 GLP: Yes Published: No	Y	DuPont
Freschi G.	IIA, 6.0.1/02	2004	Freezer storage stability of cymoxanil residue in lettuce plants Sipcam Research Centre; SIP1379 GLP: Yes Published: No	Y	Oxon
Li, Y., Hausmann, S.M.	IIA, 6.1/03	1996	Plant metabolism of [2- ¹⁴ C]cymoxanil in potatoes DuPont Experimental Station; Wilmington, Delaware, USA AMR 3408-95 GLP: Yes Published: No	Y	DuPont
Melkebeke, T., van Noorloos, B.	IIA, 6.1/02	2003a	Metabolism, distribution and expression of cymoxanil residues in lettuce NOTOX B.V., 's-Hertogenbosch, The Netherlands 257794 GLP: Yes Published: No	Y	Oxon

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Melkebeke, T., van Noorloos, B.	IIA, 6.1/04	2003b	Metabolism, distribution and expression of cymoxanil residues in potatoes NOTOX B.V., 's-Hertogenbosch, The Netherlands 257772 GLP: Yes Published: No	Y	Oxon
Nathan, E.C.	IIA, 6.0.1/01	1996	Magnitude of residues of cymoxanil in potatoes following application of Curzate M-8 fungicide at maximum label rates and at five times maximum use rates to investigate the need for magnitude of residue data in processed fractions Morse Laboratories Inc; DuPont Experimental Station AMR 3296-95 GLP: Yes Published: No	N	DuPont
Röser, K.	IIA, 6.3./06	2003	Determination of residues of cymoxanil after application of Cymoxanil 50% WP in potatoes at 4 sites in Europe, 2002 (field phase) Arbeitsgemeinschaft GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH, Germany 20021200/E1-FPPO GLP: Yes Published: No	Y	Oxon
Freschi, G.		2003	Determination of cymoxanil residues in potato specimens (tuber) after application of Cymoxanil 50% WP (analytical phase). Sipcam Residues Analysis Unit, Italy SIP1353 GLP: Yes Published: No	Y	
Singles, S.K., Strek, H.J., Sheftic, G.D.	IIA, 6.6/01	1996	Accumulation of residues in confined rotational crops: Lettuce, wheat, and beets after treatment with [¹⁴ C]cymoxanil DuPont Experimental Station AMR 3575-95 GLP: Yes Published: No	N	DuPont

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Soler, J.R.	IIA, 6.3/01	2001	Generation of lettuce specimens suitable for residue analysis of cymoxanil following applications of Cimoxnilo 50 (Cymoxanil 50% WP) (field phase) Sipcam Inagra, Spain CY2/LE GLP: Yes Published: No	Y	Oxon
Freschi, G.		2001a	Residue Analysis of Cymoxanil in Lettuce Samples (Plant) (Analytical Phase). Sipcam Residues Analysis Unit, Italy SIP1264 GLP: Yes Published: No	Y	
Soler, J.R.	IIA, 6.3/10	2002	Generation of potato specimens, suitable for residue analysis of cymoxanil following applications of Micene Plus (cymoxanil 4% + mancozeb 40% WP) (field phase) Sipcam Experimental Service, Italy CY2/PO GLP: Yes Published: No	Y	Oxon
Freschi, G.		2001d	Residue analysis of cymoxanil in potato samples (tuber) (analytical phase). Sipcam Residues Analysis Unit, Italy SIP1265 GLP: Yes Published: No	Y	
Annex III Data and Information					
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A.8 Environmental fate and behaviour (Annex IIA 7, Annex IIIA 9)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Aikens, P.J.	IIA, 7.1.1.1.1/01 IIA, 7.1.1.2.1.1/02	1998	Cymoxanil Aerobic Soil Metabolism (Route of Degradation) Huntingdon Life Sciences Ltd OXN 224/982398 GLP: Yes Published: No	Y	Oxon
Anderson, J.J., Horne, P., Lawler, S.M., Swain, R.S.	IIA, 7.2.1.2/01	1993a	Photodegradation of [2- ¹⁴ C]DPX-T3217 (cymoxanil) in pond water and sterile buffer pH 5 DuPont Experimental Station AMR 1990-91 GLP: Yes Published: No	N	DuPont
Anderson, J.J., Lawler, S.M., Swain, R.S.	IIA, 7.2.1.2./04	1993b	Quantum yield determination of DPX-T3217 (cymoxanil) and LC/MS confirmation of unknown degradates in sterile buffer pH 5 DuPont Experimental Station AMR 1990-91, Supplement No. 1 GLP: Yes Published: No	N	DuPont
Anderson, J.J.	IIA, 7.1.1.1.1/02 IIA, 7.1.1.2.1.1/03	2001	Aerobic soil metabolism of ¹⁴ C-cymoxanil DuPont Experimental Station AMR 3438-95, Revision No.1 GLP: Yes Published: No	Y	DuPont
Berg, D.S.	IIA, 7.1.1.1.2/02	1996	Photodegradation of radiolabelled cymoxanil on soil under simulated sunlight DuPont Experimental Station, Wilmington, Delaware, USA AMR 3582-95 GLP: Yes Published: No	Y	DuPont
Boucher, C.R.	IIA, 7.1.1.1.1/03	1993	Aerobic soil metabolism of [2- ¹⁴ C]DPX- T3217 (cymoxanil) DuPont Experimental Station AMR 1988-91 GLP: Yes Published: No	N	DuPont
Boucher, C.R.	IIA, 7.1.1.1.1/05 IIA, 7.1.1.2.1.1/05	1994	Degradation rate of [¹⁴ C]-cymoxanil on four soils DuPont Experimental Station AMR 2869-93 GLP: Yes Published: No	N	DuPont
Brands, C., Van Noorloos, B.	IIA, 7.2.1.1/03	2006	Determination of TLC R _f values and HPLC retention times of cymoxanil and eight reference substances. NOTOX B.V., 's-Hertogenbosch, The Netherlands 457818 GLP: Yes Published: No	Y	DuPont /Oxon

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Goodyear, A	IIA, 7.2.1.1/04 IIA, 7.2.1.2/03 IIA, 7.2.1.3.2/05	2006	Cymoxanil Position Paper: Identification of Cymoxanil Aquatic Degradation Products. TSGE, Knaresborough, U.K. 4-3-4.PP1 GLP: No Published: No	Y	DuPont /Oxon
Hassink, J.	IIA, 7.1.3.3/01	1998	Outdoor lysimeter study on cymoxanil Institut Fresenius Chemische und Biologische GmbH AMR 3897-96 GLP: Yes Published: No	Y	DuPont
Hatzenbeler, C.J., Moore, L.A.	IIA, 7.2.1.2./05	2004	Calculated Theoretical Lifetime for Cymoxanil in the Top Layer of Aqueous Systems DuPont Stine-Haskell Research Center DuPont-12330 GLP: Not applicable Published: No	Y	DuPont
Hausmann, S.M., Adams, G.M.	IIA, 7.1.2/02	1996	Soil Batch Equilibrium Study of Cymoxanil Degradates DuPont Experimental Station AMR 3722-95 GLP: Yes Published: No	N	DuPont
Lawler, S.M.	IIA, 7.2.1.1/01	1996	Hydrolysis of cymoxanil (DPX-T3217) in buffer solutions of pH 5, 7, and 9 DuPont Experimental Station AMR 3677-95 GLP: Yes Published: No	N	DuPont
Luit, R.J.	IIA, 7.2.1.3.1/01	2001	Determination of Ready Biodegradability: Carbon Dioxide (CO ₂) Evolution Test (Modified Sturm Test) with Cymoxanil Technical NOTOX B.V., 's-Hertogenbosch, The Netherlands 308778 GLP: Yes Published: No	Y	Oxon
Major, L.J.	IIA, 7.1.1.1/04 IIA, 7.1.1.2.1/04	1993	Aerobic soil metabolism of [2- ¹⁴ C]DPX- T3217 (cymoxanil) DuPont Experimental Station AMR 1988-91 Supplement No.1 GLP: Yes Published: No	N	DuPont
Malekani, K.	IIA, 7.0/01	2003	Position paper for cymoxanil: Calculated half-lives of cymoxanil and its metabolites in environmental fate laboratory studies. DuPont Stine-Haskell Research Center DuPont-11575, Revision No.1 GLP: No Published: No	Y	DuPont
Mattson, S.L.	IIA, 7.1.2/03	2003	Estimation of adsorption coefficients (K _{oc}) of cymoxanil metabolites, IN-U3204, IN- KQ960, IN-T4226, and IN-KP533, using HPLC DuPont Stine-Haskell Research Center DuPont-11758 GLP: Yes Published: No	Y	DuPont

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Melkebeke, T.	IIA, 7.1.1.2.1.1/01	1999	Determination of the Degradation Rate of Cymoxanil in Three Soils NOTOX B.V., 's-Hertogenbosch, The Netherlands 257737 GLP: Yes Published: No	Y	Oxon
Moore, L.A.	IIA, 7.2.1.2/07	2002a	UV/visible absorption and molar absorptivity of IN-R3273 DuPont Stine-Haskell Research Center DuPont-5778 GLP: Yes Published: No	Y	DuPont
Moore, L.A.	IIA, 7.2.1.2/08	2003b	UV/visible absorption and molar absorptivity of IN-JX915 DuPont Stine-Haskell Research Center DuPont-5777 GLP: Yes Published: No	Y	DuPont
Moore, L.A.	IIA, 7.2.1.2/09	2003c	Quantum efficiency for IN-R3273 and IN- JX915 DuPont Stine-Haskell Research Center DuPont-9318, Revision No. 1 GLP: Not applicable Published: No	Y	DuPont
Trabue, S.L., Lydick, T.M.	IIA, 7.2.1.3.2/01	2001	Degradation of cymoxanil in two water/sediment systems DuPont Experimental Station DuPont-2695 GLP: Yes Published: No	Y	DuPont
Trabue, S.L.	IIA, 7.1.1.1.1/06 IIA, 7.1.1.2.1.1/06	2003	Degradation rate of [¹⁴ C]-cymoxanil on four soils DuPont Stine-Haskell Research Center AMR 2869-93, Supplement No. 1 GLP: Yes Published: No	Y	DuPont
Slangen, P.J.	IIA, 7.1.2/01	1999	Adsorption/Desorption of Cymoxanil on Soil NOTOX B.V., 's-Hertogenbosch, The Netherlands 257748 GLP: Yes Published: No	Y	Oxon
Slangen, P.J., Willems, H.	IIA, 7.2.1.3.2/02	2000	The Fate of Cymoxanil in Two Water/Sediment Systems NOTOX B.V., 's-Hertogenbosch, The Netherlands 257761 GLP: Yes Published: No	Y	Oxon
Van Noorloos, B., Slangen, J.	IIA, 7.1.1.2.1.1/07	2001	Degradation of the Degradation Rate of Cymoxanil at 10°C in One Soil NOTOX B.V., 's-Hertogenbosch, The Netherlands 308756 GLP: Yes Published: No	Y	Oxon

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Van Noorloos, B.	IIA, 7.1.1.2.1.1/08	2006	Determination of TLC Rf values of U3204 and cymoxanil NOTOX B.V., 's-Hertogenbosch, The Netherlands 453443 GLP: Yes Published: No	Y	DuPont /Oxon
Willems, H.	IIA, 7.1.1.2.1.2/01	1998	Photodegradation of Cymoxanil on Soil Surfaces NOTOX B.V., 's-Hertogenbosch, The Netherlands 211095 GLP: Yes Published: No	Y	Oxon
Willems, H.	IIA, 7.2.1.2/02	2000	Photodegradation of Cymoxanil in Water NOTOX B.V., 's-Hertogenbosch, The Netherlands 257759 GLP: Yes Published: No	Y	Oxon
Willems, H., Slangen, P.J., Hoitink, M.	IIA, 7.2.1.1/02	2003	Aqueous Hydrolysis of Cymoxanil NOTOX B.V., 's-Hertogenbosch, The Netherlands 308734 GLP: Yes Published: No	Y	Oxon
Willems, H.	IIA, 7.2.1.2/06	2003	Aquatic Photolysis of Cymoxanil Estimation of Lifetime in the Top Layer of Aqueous Systems (GC Solar Calculations) NOTOX B.V., 's-Hertogenbosch, The Netherlands 397439 GLP: Not applicable Published: No	Y	Oxon
Willems, H., Hoitink, M.	IIA, 7.2.1.3.2/03	2003	Incubation of Cymoxanil in One Water/Sediment System in Order to Regenerate Metabolite M-5 Observed during NOTOX Project 257761 NOTOX B.V., 's-Hertogenbosch, The Netherlands 366784 GLP: Yes Published: No	Y	Oxon
Willems, H., Slangen, P.J.	IIA, 7.2.1.3.2/04	2003	Comparison of Degradation Products of Cymoxanil formed in Ecotox Media, Buffered Aqueous Solutions (pH 4, 7, 9), Irradiated Aqueous solutions (pH 5) and Water/Sediment Systems. NOTOX B.V., 's-Hertogenbosch, The Netherlands 310859 GLP: Yes Published: No	Y	Oxon

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Annex III Data and Information					
TANOS 50 WG (DuPont)					
Ball, M.A.	IIIA, 9.1.3./01 IIIA, 9.2.3/01 IIIA, 9.3/01	2004	Predicted environmental concentrations of cymoxanil and major metabolites in surface water, sediment, soil, and air after application of Tanos 50WG to potatoes for the European Union DuPont Stine-Haskell Research Center DuPont-11941, Revision No. 1 GLP: No Published: No	Y	DuPont
Ball, M.A.	IIIA, 9.2.1./01	2004	Predicted environmental concentrations of cymoxanil and major soil metabolite, IN-U3204, in groundwater after application of Tanos 50WG to potatoes in the European Union DuPont Stine-Haskell Research Center DuPont-11942, Revision No. 1 GLP: No Published: No	Y	DuPont
Studies not submitted					
Aldred, D.	IIA, 7.2.1.3.1/01	1992	Determination of the ready biodegradation of DPX-T3217 by the modified Sturm test Euro Labs Ltd AMR 2256-91 Published: No <i>Reasons not submitted: Superseded by more modern study; Oxon 308778</i>	?	DuPont
Boucher, C.R.	IIA, 7.1.1.1.1/03	1996	Aerobic soil metabolism of ¹⁴ C-cymoxanil DuPont Experimental Station AMR 3438-95 Published: No <i>Reasons not submitted: Supersweded by AMR 3438-95 RV1</i>	?	DuPont
Hausmann, S.M.	IIA, 7.2.1.3/02	1996	Anaerobic aquatic metabolism of cymoxanil DuPont Experimental Station AMR 3407-95 Published: No <i>Reasons not submitted: Superseded by more modern studies; AMR 2595 and Oxon 257761</i>	?	DuPont
Horne, P.	IIA, 7.1.2/01	1992	Batch equilibrium (Adsorption/desorption) studies of [¹⁴ C]DPX-T3217 DuPont Experimental Station AMR 2112-91 Published: No <i>Reasons not submitted: No low clay soil, study superseded by Oxon 257748</i>	?	DuPont

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Knoch, E.	IIA, 7.2.1.3.2/01	1993	Degradation and metabolism of cymoxanil (DPX-T3217) in water/sediment systems RCC Umweltchemie AG AMR 2446-92 Published: No <i>Reasons not submitted: Superseded by more modern studies; AMR 2595 and Oxon 257761</i>	?	DuPont
Lawler, S.M.	IIA, 7.1.3/01	1993	Soil column leaching study of ¹⁴ C-cymoxanil DuPont Experimental Station AMR 2724-93 Published: No <i>Reasons not submitted: Adequate K_{oc} data available for parent compound from batch equilibrium study Oxon 257748</i>	?	DuPont
Van Noorloos, B., Slangen, P.	IIA, 7.1.1.1.2/01	2002	Anaerobic soil metabolism of cymoxanil <i>Reasons not submitted: Study not required, waiver submitted</i>	?	Oxon
Willems, H.	IIA, 7.1.3.2	2000	Aged leaching of cymoxanil <i>Reasons not submitted: Adequate leaching data for degradates available from lysimeter study AMR 3897-96</i>	?	Oxon

A.9 Ecotoxicology (Annex IIA 8, Annex IIIA 10)

Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Annex II Data and Information					
Baer, K.N.	IIA, 8.2.2.1	1992a	Flow-through, 21-day toxicity of DPX-T3217-113 (cymoxanil) to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] HLR 545-92 GLP: Yes Published: No	N	DuPont
Baer, K.N.	IIA, 8.2	1992b	Determination of the stability and solubility of DPX-T3217-113 (Cymoxanil) in aquatic test solutions [REDACTED] HA-92-087 GLP: No Published: No	N	DuPont
Baer, K.N.	IIA, 8.2.1	1993a	Static, acute, 96-hour LC50 of DPX-T3217-113 (cymoxanil) to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] HLR 735-92 GLP: Yes Published: No	N	DuPont
Baer, K.N.	IIA, 8.2.1	1993b	Static, acute, 96-hour LC50 of DPX-T3217-113 (cymoxanil) to bluegill sunfish, <i>Lepomis macrochirus</i> [REDACTED] HLR 834-92 GLP: Yes Published: No	N	DuPont
Baer, K.N.	IIA, 8.2.4	1993c	Static, acute, 48-hour EC50 of DPX-T3217-113 (cymoxanil) to <i>Daphnia magna</i> DuPont Haskell Laboratory HLR 736-92 GLP: Yes Published: No	N	DuPont
Baer, K.N.	IIA, 8.2.5	1993d	Chronic toxicity of DPX-T3217-113 (cymoxanil) to <i>Daphnia magna</i> : 24-Hour renewal DuPont Haskell Laboratory HLR 354-93, Revision No. 1 GLP: Yes Published: No	N	DuPont

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Balluff, M.	IIA, 8.6	2003	Vegetative vigour limit test for non target plants following single rate application of Cymoxanil 50 WP Arbeitsgemeinschaft GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH. 20033057/S1-FGW GLP: Yes Published: No	Y	Oxon
Bell, G.	IIA, 8.2.6	1996	Cymoxanil technical algal growth inhibition Huntingdon Life Sciences, Ltd OXN 107A(a)/950955 GLP: Yes Published: No	N	Oxon
Boeri, R.L., Kowalski, P.L., Ward, T.J.	IIA, 8.2.1	1996a	Acute toxicity of DPX-T3217-113 (Cymoxanil) to the sheepshead minnow, <i>Cyprinodon variegatus</i> [REDACTED] HLO 634-96 GLP: Yes Published: No	N	DuPont
Boeri, R.L., Kowalski, P.L., Ward, T.J.	IIA, 8.2.2.2	1996b	Early life-stage toxicity of DPX-T3217-113 (cymoxanil) to the sheepshead minnow, <i>Cyprinodon variegatus</i> [REDACTED] HLO 913-96 GLP: Yes Published: No	N	DuPont
Boeri, R.L., Kowalski, P.L., Ward, T.J.	IIA, 8.2.4	1996c	Acute toxicity of DPX-T3217-113 (cymoxanil) to the mysid, <i>Mysidopsis bahia</i> T. R. Wilbury Laboratories, Inc. HLO 632-96 GLP: Yes Published: No	N	DuPont
Boeri, R.L., Kowalski, P.L., Ward, T.J.	IIA, 8.2.4	1996d	Acute flow-through mollusc shell deposition test with DPX-T3217-113 (cymoxanil) T. R. Wilbury Laboratories, Inc. HLO 633-96 GLP: Yes Published: No	N	DuPont
Boeri, R.L., Magazu, J.P., Ward, T.J.	IIA, 8.2.2.2	1997	DPX-T3217-113 (cymoxanil): Early life-stage toxicity to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] HLO 1013-96, Vol 1-3 GLP: Yes Published: No	N	DuPont
Boeri, R.L., Magazu, J.P., Ward, T.J.	IIA, 8.2.6	1999	Cymoxanil technical: Growth and reproduction test with the freshwater alga, <i>Selenastrum capricornutum</i> T.R. Wilbury Laboratories, Inc. DuPont-2498 GLP: Yes Published: No	Y	DuPont

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Boeri, R.L., Wyskiel, D.C., Ward, T.J.	IIA, 8.2.1	2002a	IN-T4226: Static-renewal, acute, 96-hour limit test to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] DuPont-9386 GLP: Yes Published: No	Y	DuPont
Boeri, R.L., Wyskiel, D.C., Ward, T.J.	IIA, 8.2.1	2002b	IN-W3595: Static, acute, 96-hour limit test to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] DuPont-9384 GLP: Yes Published: No	Y	DuPont
Boeri, R.L., Wyskiel, D.C., Ward, T.J.	IIA, 8.2.4	2002c	IN-T4226: Acute, 48-hour EC50 to <i>Daphnia magna</i> T. R. Wilbury Laboratories, Inc. DuPont-9385 GLP: Yes Published: No	Y	DuPont
Boeri, R.L., Wyskiel, D.C., Ward, T.J.	IIA, 8.2.4	2002d	IN-W3595: Acute, 48-hour EC50 to <i>Daphnia magna</i> T. R. Wilbury Laboratories, Inc. DuPont-9383 GLP: Yes Published: No	Y	DuPont
Branner, K.	IIA, 8.2	2002e	Solubility and stability of IN-U3204 in aqueous solutions DuPont Haskell Laboratory HA-2002-011 GLP: No Published: No	Not stated	DuPont
Campbell, S.M., Lynn, S.P.	IIA, 8.1.1	1992	H-19,062-02: An acute oral toxicity study with the mallard [REDACTED] HLO 139-92 GLP: Yes Published: No	N	DuPont
Desmares-Koopmans, M.J.E.	IIA, 8.7	2001	Activated sludge respiration inhibition test with cymoxanil technical (contact time: 3 hours) NOTOX BV. 308767 GLP: Yes Published: No	Y	Oxon
Freiling W.J.A.M., van Dreumel, I.F.	IIA, 8.1.2	1999	5-Day dietary toxicity study in mallard duck [REDACTED] 257401 GLP: Yes Published: No	Y	Oxon

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Gallagher, S.P., Foster, J.W., Beavers, J.B., Jaber, M.	IIA, 8.1.3	1996a	DPX-T3217-113 (cymoxanil): A reproduction study with the northern bobwhite (<i>Colinus virginianus</i>) [REDACTED] AMR 3507-95 GLP: Yes Published: No	N	DuPont
Gallagher, S.P., Foster, J.W., Beavers, J.B., Jaber, M.	IIA, 8.1.3	1996b	DPX-T3217-113 (cymoxanil): A reproduction study with the mallard (<i>Anas platyrhynchos</i>) [REDACTED] AMR 3508-95 GLP: Yes Published: No	N	DuPont
Geuijen, W.H.C.	IIA, 8.3.2	1999a	Effects of Cymoxanil 50% WP on survival and reproduction of the parasitic wasp <i>Aphidius rhopalosiphi</i> in the laboratory NOTOX BV. 257816 GLP: Yes Published: No	Y	Oxon
Geuijen, W.H.C.	IIA, 8.3.2	1999b	Effects of Cymoxanil 50% WP on survival of the carabid beetle <i>Poecilus cupreus</i> NOTOX BV. 257838 GLP: Yes Published: No	Y	Oxon
Geuijen, W.H.C.	IIA, 8.3.2	1999c	Effects of Cymoxanil 50% WP on survival and reproduction of the green lacewing <i>Chrysoperla carnea</i> (laboratorium test) NOTOX BV. 257849 GLP: Yes Published: No	Y	Oxon
Geuijen, W.H.C.	IIA, 8.3.2	2000	Effects of Cymoxanil 50% WP on survival and reproduction of the phytoseiid mite <i>Typhlodromus pyri</i> Scheuten NOTOX BV. 257827 GLP: Yes Published: No	Y	Oxon
Heijink, E.	IIA, 8.1.1	1999	Acute oral toxicity study in the mallard duck with cymoxanil technical [REDACTED] 257377 GLP: Yes Published: No	Y	Oxon
Hughes, J.S., Williams, T.L., Conder, L.A.	IIA, 8.2.6	1996a	DPX-T3217-113 (cymoxanil): Influence on growth and reproduction of <i>Anabaena flos-aquae</i> Carolina Ecotox, Inc. AMR 4109-96 GLP: Yes Published: No	N	DuPont

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Hughes, J.S., Williams, T.L., Conder, L.A.	IIA, 8.2.6	1996b	DPX-T3127-113 (cymoxanil): Influence on growth and reproduction of <i>Navicula pelliculosa</i> Carolina Ecotox, Inc. AMR 4112-96 GLP: Yes Published: No	N	DuPont
Johnson, A.J.	IIA, 8.1.2	1997	Cymoxanil Technical dietary LC50 to the bobwhite quail [REDACTED] OXN 215/970985 GLP: Yes Published: No	N	Oxon
Kölzer, U.	IIA, 8.5	2003	Assessment of the side effects of cymoxanil technical on the activity of the soil microflora Arbeitsgemeinschaft GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH. 20031314/01-ABMF GLP: Yes Published: No	Y	Oxon
Leva, S.E., Sloman, T.L.	IIA, 8.2.8	1996	Cymoxanil: Influence on growth and reproduction of <i>Lemna gibba</i> G3 DuPont Stine-Haskell Research Center AMR 3775-96 GLP: Yes Published: No	N	DuPont
Lührs, U.	IIA, 8.4.2	2000	Cymoxanil/famoxadone (DPX-KP481): A dose response sublethal study to the earthworm, <i>Eisenia fetida</i> (Savigny 1826), in artificial soil IBACON DuPont-4611 GLP: Yes Published: No	Y	DuPont
Migchielsen, M.H.J., Brekelmans, M.J.C., Willems, H.	IIA, 8.2.1	2003	Demonstrating exposure of rainbow trout to cymoxanil degradation products during a 96-hour acute toxicity study in rainbow trout (limit test under static conditions) [REDACTED] 363904 GLP: Yes Published: No	Y	Oxon
Müther, J.	IIA, 8.3.2	2002	A field study to evaluate the effects of Cymoxanil 50% WP on predatory mites (Acari: phytoseiidae) in vines in France Arbeitsgemeinschaft GAB Biotechnologie GmbH & IFU Umweltanalytik GmbH, Germany, 20021069/F1-NFTp GLP: Yes Published: No	Y	Oxon

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Rodgers, M. H.	IIA, 8.1.1	1996	Cymoxanil Technical acute oral toxicity (LD50) to the bobwhite quail. [REDACTED] OXN 69A/950758 GLP: Yes Published: No	N	Oxon
Rodgers, M.H., Cameron, D.M., Mansell, P.	IIA, 8.4.1	1995	Cymoxanil technical acute toxicity (LC50) to the earthworm (<i>Eisenia foetida</i>) Huntingdon Life Sciences Ltd. OXN 78A/950675 GLP: Yes Published: No	N	Oxon
Samel, A.	IIA, 8.2.1	2002a	IN-KQ960: Static, acute, 96-hour limit test to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] DuPont-9560 GLP: Yes Published: No	Y	DuPont
Samel, A.	IIA, 8.2.1	2002b	IN-U3204: Static-renewal, acute, 96-hour limit test to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] DuPont-9558 GLP: Yes Published: No	Y	DuPont
Samel, A.	IIA, 8.2.4	2002c	IN-U3204: Static-renewal, acute, 48-hour EC50 to <i>Daphnia magna</i> DuPont Haskell Laboratory DuPont-9557 GLP: Yes Published: No	Y	DuPont
Samel, A.	IIA, 8.2.4	2002d	IN-KQ960: Static, acute, 48-hour EC50 to <i>Daphnia magna</i> DuPont Haskell Laboratory DuPont-9559 GLP: Yes Published: No	Y	DuPont
Samel, A.	IIA, 8.2.5	2003	IN-KQ960: 21-Day chronic toxicity to <i>Daphnia magna</i> DuPont Haskell Laboratory DuPont-11971 GLP: Yes Published: No	Y	DuPont
Schur, A.	IIA, 8.3.1.1	1999	Assessment of side effects of cymoxanil technical to the honey bee, <i>Apis mellifera</i> L. in the laboratory GAB Biotechnologie GmbH and IFU Umweltanalytik GmbH 99063/01-BLEU GLP: Yes Published: No	Y	Oxon

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Sloman, T.L.	IIA, 8.2.6	2001a	IN-T4226: Influence on growth and growth rate of the blue-green alga <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory DuPont-3747 GLP: Yes Published: No	Y	DuPont
Sloman, T.L.	IIA, 8.2.6	2001b	IN-W3595: Influence on growth and growth rate of the blue-green alga <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory DuPont-3748 GLP: Yes Published: No	Y	DuPont
Sloman, T.L.	IIA, 8.2.6	2002a	IN-U3204: Influence on growth and growth rate of the blue-green alga <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory DuPont-9207 GLP: Yes Published: No	Y	DuPont
Sloman, T.L.	IIA, 8.2.6	2002b	IN-KQ960: Influence on growth and growth rate of the blue-green alga <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory DuPont-9206 GLP: Yes Published: No	Y	DuPont
Annex III Data and Information					
Beech, P., Mead-Briggs, M.	IIIA, 10.5.1.	1998	Cymoxanil/Famoxadone (DPX-KP481) 50 WG (25%:25%). An extended laboratory study to evaluate the effects on the ground beetle, <i>Poecilus cupreus</i> University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4539-97 GLP: Yes Published: No	N	DuPont
Bogers M.	IIIA 10.2.1	1999a	96-hour acute toxicity study in rainbow trout with Cymoxanil 50 % WP (semi-static) Report 262428 GLP: Yes Published: No	Y	Oxon
Bogers M.	IIIA 10.2.1	1999b	Fresh water algal growth inhibition test with Cymoxanil 50 % WP NOTOX B.V., The Netherlands, Report 262441 GLP: Yes Published: No	Y	Oxon
Brown, M.R.	IIIA, 10.2.1	1997a	DPX-KP481-25 50WG: Flow-through, acute, 96-hour LC50 to rainbow trout, <i>Oncorhynchus mykiss</i> HL-1997-00440 GLP: Yes Published: No	N	DuPont

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Brown, M.R.	IIIA, 10.2.1	1997b	DPX-KP481-25 50WG: Flow-through, acute, 48-hour EC50 to <i>Daphnia magna</i> DuPont Haskell Laboratory HL-1997-00437 GLP: Yes Published: No	N	DuPont
Candolfi, M.P.	IIIA, 10.4.1	1996	DPX-KX007-5: Laboratory acute oral and contact toxicity test with the honeybee, <i>Apis mellifera</i> , based on the EPPO guideline 170 (1992) and FIFRA guideline 141-1 Springborn Laboratories (Europe) Ag AMR 3828-96 GLP: Yes Published: No	N	DuPont
Carter, J.N.	IIIA, 10.7.1	1995	DPX-KX007 (20 SC) effects on soil non-target micro-organisms Huntingdon Life Sciences Ltd. (UK) AMR 3560-95 GLP: Yes Published: No	N	DuPont
Grove, A.J.	IIIA, 10.5.1.	1996a	Effects of DPX-KX007-03 on juvenile survival, reproduction and egg hatch success of <i>Typhlodromus pyri</i> (Acari: Phytoseiidae), following multiple applications on grapevine leaf: Extended laboratory test MITOX-Stichting Bevordering Duurzame Plaagbestijding AMR 3571-95 GLP: Yes Published: No	N	DuPont
Grove, A.J.	IIIA, 10.5.1.	1996b	Extended laboratory test comparing the effects of DPX-KX007 (containing DPX-JE874 and cymoxanil) WG and SC formulations on <i>Typhlodromus pyri</i> , following multiple applications on grapevine leaves under greenhouse conditions MITOX Stichting Bevordering Duurzame Plaagbestijding AMR 3812-96 GLP: Yes Published: No	N	DuPont
Hermann, P.	IIIA, 10.5.1.	2001	DPX-KP481-25: A semi-field study to evaluate the effects on the hoverfly, <i>Episyrphus balteatus</i> Deg. (Diptera, Syrphidae) GAB Biotechnologie, GmbH DuPont-3881 GLP: Yes Published: No	N	DuPont
Hoke, R.A.	IIIA, 10.2.1	1998a	DPX-KP481-25 50WG: Static, acute, 96-hour LC50 to rainbow trout, <i>Oncorhynchus mykiss</i> DuPont-1148 GLP: Yes Published: No	N	DuPont

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Hoke, R.A.	IIIA, 10.2.1	1998b	DPX-KP481-25 50WG: Static, acute, 48-hour EC50 to <i>Daphnia magna</i> DuPont Haskell Laboratory DuPont-1076 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1995	DPX-KX007, a suspension concentrate (SC) formulation containing JE874 (90 g/L) and cymoxanil (120 g/L): Acute toxicity to the green lacewing, <i>Chrysoperla carnea</i> Steph. (Neuroptera, Chrysopidae) in the laboratory GAB Biotechnologie, GmbH AMR 3529-95 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1996a	DPX-KX007, a suspension concentrate (SC) formulation, containing JE874 (90 g/L) and cymoxanil (120 g/L): Acute toxicity to the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae) in the laboratory GAB Biotechnologie GmbH AMR 3528-95 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1996b	DPX-KX007, a suspension concentrate (SC) formulation, containing JE874 (90 g/L) and cymoxanil (120 g/L): Acute toxicity to the predatory mite, <i>Typhlodromus pyri</i> Scheuten (Acari, Phytoseiidae) in the laboratory GAB Biotechnologie GmbH AMR 3530-95 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1997a	DPX-KP481, a water-dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the hoverfly, <i>Episyrphus balteatus</i> Deg. (Diptera, Syrphidae) in the laboratory GAB Biotechnologie GmbH AMR 4232-96 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1997b	DPX-KP481, a water-dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae) in the laboratory GAB Biotechnologie GmbH AMR 4233-96 GLP: Yes Published: No	N	DuPont

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Kuehner, C.	IIIA, 10.5.1.	1997c	DPX-KP481, a water-dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the green lacewing, <i>Chrysoperla carnea</i> Steph. (Neuroptera, Chrysopidae) in the laboratory GAB Biotechnologie GmbH AMR 4234-96 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1997d	DPX-KP481, a water-dispersible granular (WG) formulation containing DPX-JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the staphylinid beetle, <i>Aleochara bilineata</i> (Coleoptera, Staphylinidae) in the laboratory GAB Biotechnologie, GmbH AMR 4235-96 GLP: Yes Published: No	N	DuPont
Kuehner, C.	IIIA, 10.5.1.	1998	Cymoxanil/Famoxadone (DPX-KX007) 52.5% WG (30%:22.5%): An extended laboratory study (field aged residue) to evaluate the effects on the parasitoid <i>Trichogramma cacoeciae</i> Marchal (Hym., Trichogrammatidae) GAB Biotechnologie, GmbH AMR 4573-97 GLP: Yes Published: No	N	DuPont
Leva, S.E., Sloman, T.L.	IIIA, 10.2.1	1997	DPX-KX007: Influence on growth and growth rate of the green alga <i>Pseudokirchneriella subcapitata</i> (formerly called <i>Selenastrum capricornutum</i>) DuPont Stine Research Center AMR 4116-96 GLP: Yes Published: No	N	DuPont
Lueschner, J.	IIIA, 10.1.1.	2003	Avian toxicity study of Cymoxanil 50 WP oral toxicity in the Japanese quail – limit test according to SETAC guideline document. [REDACTED] Report 17232/03 GLP: Yes Published: No	N	Oxon
Mead-Briggs M.	IIIA, 10.5.1.	1996	DPX-KX007 suspension concentrate (SC) formulation containing DPX-JE874 (90 g/L) and cymoxanil (120 g/L): An extended laboratory test to evaluate the effects on the parasitic wasp <i>Aphidius rhopalosiph</i> when applied in up to six serial applications to tomato plants University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 3593-95 GLP: Yes Published: No	N	DuPont

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Annex A: List of tests and studies

Cymoxanil

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Author(s)	Annex point/ reference number	Year	Title Source (where different from company) Company, Report No GLP or GEP status (where relevant), Published or not	Data Protection Claimed Y/N-R/NR	Owner
Migchielsen M.H.J.	IIIA 10.2.1	1999	Acute toxicity study in <i>Daphnia magna</i> with Cymoxanil 50 % WP (semi-static) NOTOX B.V., The Netherlands, Report 262439 GLP: Yes Published: No	Y	Oxon
Nengel, S.	IIIA, 10.5.1.	1996a	Assessment of side effects of DPX-KX007 20 SC on the hoverfly, <i>Episyrphus balteatus</i> DEG. (Diptera, Syrphidae): Extended lab test GAB Biotechnologie GmbH AMR 3569-95 GLP: Yes Published: No	N	DuPont
Nengel, S.	IIIA, 10.5.1.	1996b	Assessment of side effects of DPX-KX007 20 SC on the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae): Semi-field test GAB Biotechnologie GmbH AMR 3570-95 GLP: Yes Published: No	N	DuPont
Oberwalder, C.	IIIA, 10.5.2.	1997	A field study to evaluate the effects of DPX-KX007 WG a formulation containing DPX-JE874 (225 g ai/kg) and cymoxanil (300 gai/kg) on the predatory mite <i>Typhlodromus pyri</i> in vines (two locations in Germany) GAB Biotechnologie GmbH AMR 3969-96, Revision No. 1 GLP: Yes Published: No	N	DuPont
Rodgers, M.H.	IIIA, 10.6.1.1.	1995	Cymoxanil 50 % WP - Acute toxicity (LC50) to the earthworm (<i>Eisenia foetida</i>) Huntingdon Research Centre Ltd., Huntingdon, Cambridgeshire, England OXN 81A/943245 GLP: Yes Published: No	N	Oxon
Thompson, B.	IIIA, 10.5.1.	1999a	Cymoxanil/Famoxadone (DPX-KP481) 50 WG (25%:25%) an extended laboratory study to evaluate the effects on the hoverfly, <i>Episyrphus balteatus</i> University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4541-97 GLP: Yes Published: No	N	DuPont
Thompson, B.	IIIA, 10.5.1.	1999b	Cymoxanil/Famoxadone (DPX-KP481) 50 WG (25%:25%): A semi-field study to evaluate the effects on aphid parasitoids, (Hymenoptera, Aphidiinae) in a potato crop University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4542-97 GLP: Yes Published: No	N	DuPont

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Thompson, B.	IIIA, 10.5.1.	1999c	Cymoxanil/Famoxadone (DPX-KP481) 50 WG (25%:25%). An extended laboratory study to evaluate the effects on the green lacewing, <i>Chrysoperla carnea</i> University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4540-97 GLP: Yes Published: No	N	DuPont
Wachter, S.	IIIA, 10.6.1.1	1997	Acute toxicity of DPX-KX007-5 on earthworms, <i>Eisenia foetida</i> using an artificial soil test GAB Biotechnologie, GmbH AMR 4136-96 GLP: Yes Published: No	N	DuPont

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Studies not submitted - Ecotoxicology

Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Owner	Reasons not submitted
Annex II					
Armstrong, K., Caley, C.Y., Hall, B.E., Knight, B.	IIA, 8.4.1	1991	Cymoxanil (tech) determination of acute toxicity (LC ₅₀) earthworms Inveresk Research International Ltd. IRI 8548 GLP: Yes Published: No	DuPont	Response to reference toxicant omitted.
Bell, G.	IIA, 8.2.1	1996	OXN 107A(c)/951882: Cymoxanil technical: acute toxicity to rainbow trout (<i>Oncorhynchus mykiss</i>) [REDACTED] GLP: Yes Published: No	Oxon	Exposure concentration not maintained.
Baer, K.N.	IIA, 8.2.1	1992	Static, acute, 96-hour LC ₅₀ of DPX-T3217-113 (cymoxanil) to common carp, <i>Cyprinus carpio</i> [REDACTED] HLR 734-92 GLP: Yes Published: No	DuPont	Study submitted with alternative warm water species gives lower LC ₅₀ .
Barug, D., Vogelaar, J.C.	IIA, 8.5	1983	Effect of cymoxanil on soil respiration Institute of Applied Chemistry TNO 84/03/4205-10344/DB/G K GLP: No Published: No	DuPont	Not in accordance with preferred guideline. Superseded.
Bell, G.	IIA, 8.2.4	1996	OXN 107A(b)/950956: Cymoxanil technical: acute toxicity to <i>Daphnia magna</i> Huntingdon Life Sciences GLP: Yes Published: No	Oxon	Exposure concentration not maintained.

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Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Owner	Reasons not submitted
Annex II					
Bogers, M.	IIA, 8.2.1	1999	257434: 96 hour acute toxicity study in carp with cymoxanil technical (flow-through) [REDACTED] GLP: Yes Published: No	Oxon	Study submitted with alternative warm water species gives lower LC ₅₀ .
Campbell, S.M., Lynn, S.P.	IIA, 8.1.1	1992a	H-19,062-02: An acute oral toxicity study with the northern bobwhite [REDACTED] HLO 136-92 GLP: Yes Published: No	DuPont	No <i>post mortem</i> examinations.
Campbell, S.M., Lynn, S.P.	IIA, 8.1.2	1992b	H-19,062-02: A dietary LC ₅₀ study with the mallard [REDACTED] HLO 137-92 GLP: Yes Published: No	DuPont	No <i>post mortem</i> examinations.
Campbell, S.M., Lynn, S.P.	IIA, 8.1.2	1992b	H-19,062-02: A dietary LC ₅₀ study with the northern bobwhite [REDACTED] HLO 138-92 GLP: Yes Published: No	DuPont	No <i>post mortem</i> examinations, submitted study gives lower LC ₅₀ .
Carter, J.N.	IIA, 8.5	1995	OXN 92A/950385: Cymoxanil technical AI: effects on soil non-target micro-organisms Huntingdon Life Sciences GLP: Yes Published: No	Oxon	Not in accordance with preferred guideline. Superseded.
Douglas, M.T., Handley, J.W.	IIA, 8.2.6	1988	The algistatic activity of cymoxanil technical Huntingdon Research Centre DPT 171(Q)/88601 GLP: Yes Published: No	DuPont	No analysis of test media, superseded by more recent submitted studies with same species.

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Annex II					
Frieling, W.J.A.M.	IIA, 8.1.3	2000	262518: Reproduction study in bobwhite quail with cymoxanil technical (by dietary admixture) [REDACTED] GLP: Yes Published: No	Oxon	Dietary concentration range in submitted study gives higher NOEC value.
Goßmann, A.	IIA, 8.3.2	2001	Cymoxanil (DPX-T3217) 60%WG: A laboratory test to study the effects on the predatory mite <i>Typhlodromus pyri</i> (Acari, Phytoseiidae) IBACON DuPont-1731 GLP: Yes Published: No	DuPont	Superseded by a similar study with a formulation relevant to the GAP.
Hertl, J.	IIA, 8.7	2001	Cymoxanil (DPX-T3217) technical: Activated sludge, respiration inhibition test IBACON DuPont-4483 GLP: Yes Published: No	DuPont	Submitted study shows more uniform dose- response and provides lower endpoint.
Hoke, R.A.	IIA, 8.2.1	2001	Cymoxanil aquatic degradate mixture including RF1: Static, acute, 96-hour toxicity to zebra fish, <i>Danio rerio</i> [REDACTED] [REDACTED] [REDACTED] [REDACTED] DuPont-3294, Revision No. 1 GLP: Yes Published: No	DuPont	Superseded by studies conducted with individual metabolites.
Hoke, R.A.	IIA, 8.2.4	2001	Cymoxanil aquatic degradate mixture including RF1: Static, acute, 48-hour toxicity to <i>Daphnia magna</i> DuPont Haskell Laboratory; DuPont Experimental Station DuPont-3293, Revision No. 1 GLP: Yes Published: No	DuPont	Superseded by studies conducted with individual metabolites.

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Annex II					
Hoke, R.A., Sloman, T.L.	IIA, 8.2.6	2001	Cymoxanil aquatic degradate mixture including RF1: Influence on growth and growth rate of the blue- green alga, <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory; DuPont Experimental Station DuPont-3529, Revision No. 1 GLP: Yes Published: No	DuPont	Superseded by studies conducted with individual metabolites.
Hoxter, K.A., Bernard, W.L., Smith, G.J.	IIA, 8.3.1.1	1993	A dietary LC ₅₀ toxicity study with the honey bee Wildlife International Ltd. HLO 99-93 GLP: Yes Published: No	DuPont	Insufficient replication, no reference toxicant used, dose consumption not measured, superseded by submitted study in accordance with preferred guideline.
Hoxter, K.A., Bernard, W.L., Smith, G.J.	IIA, 8.3.1.1	1993	An acute contact toxicity study with the honey bee Wildlife International Ltd. HLO 100-93 GLP: Yes Published: No	DuPont	Insufficient replication, no reference toxicant used, superseded by submitted study in accordance with preferred guideline.
Kenyon, W.H.	IIA, 8.6	1996	The influence of the fungicide cymoxanil on seedling emergence and vegetative vigor of several terrestrial plants DuPont Experimental Station CYMO/ECO 2 GLP: No Published: No	DuPont	Superseded by submitted GLP- compliant study in accordance with preferred guideline.

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Annex II					
Kreamer, G.L.C	IIA, 8.2.2.2	1996	DPX-T3217-113 (cymoxanil): Early-life stage toxicity to rainbow trout, <i>Oncorhynchus mykiss</i> [REDACTED] [REDACTED] HLR 411-96, Vol 1-3 GLP: Yes Published: No	DuPont	Superseded by submitted study.
Kuehner, C.	IIA, 8.3.2	1995	DPX-KX007, a suspension concentrate (SC) formulation containing JE874 (90 g/L) and cymoxanil (120 g/L): Acute toxicity to the green lacewing, <i>Chrysoperla carnea</i> Steph. (Neuroptera, Chrysopidae) in the laboratory GAB Biotechnologie AMR 3529-95 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Kuehner, C.	IIA, 8.3.2	1996a	DPX-KX007, a suspension concentrate (SC) formulation, containing JE874 (90 g/L) and cymoxanil (120 g/L): Acute toxicity to the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae) in the laboratory GAB Biotechnologie GmbH AMR 3528-95 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.

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Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Owner	Reasons not submitted
Annex II					
Kuehner, C.	IIA, 8.3.2	1996b	DPX-KX007, a suspension concentrate (SC) formulation, containing JE874 (90 g/l) and cymoxanil (120 g/l): Acute toxicity to the predatory mite, <i>Typhlodromus pyri</i> Scheuten (Acari, Phytoseiidae) in the laboratory GAB Biotechnologie GmbH AMR 3530-95 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Kuehner, C.	IIA, 8.3.2	1997a	DPX-KP481, a water dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the hoverfly, <i>Episyrphus balteatus</i> Deg. (Diptera, Syrphidae) in the laboratory GAB Biotechnologie GmbH AMR 4232-96 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Kuehner, C.	IIA, 8.3.2	1997b	DPX-KP481, a water dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae) in the laboratory GAB Biotechnologie GmbH AMR 4233-96 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.

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Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Owner	Reasons not submitted
Annex II					
Kuehner, C.	IIA, 8.3.2	1997c	DPX-KP481, a water dispersible granular (WG) formulation, containing JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the green lacewing, <i>Chrysoperla carnea</i> Steph. (Neuroptera, Chrysopidae) in the laboratory GAB Biotechnologie GmbH AMR 4234-96 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Kuehner, C.	IIA, 8.3.2	1997d	DPX-KP481, a water dispersible granular (WG) formulation containing DPX-JE874 (254 g ai/kg) and cymoxanil (266 g ai/kg): Acute toxicity to the staphylinid beetle, <i>Aleochara bilineata</i> (Coleoptera, Staphylinidae) in the laboratory GAB Biotechnologie, GmbH AMR 4235-96 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Kuehner, C.	IIA, 8.3.2	1998	Cymoxanil/famoxadone (DPX-KX007) 52.5% WG (30%:22.5%): An extended laboratory study (field aged residue) to evaluate the effects on the parasitoid <i>Trichogramma cacoeciae</i> Marchal (Hym., Trichogrammatidae) GAB Biotechnologie, GmbH AMR 4573-97 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.

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Annex II					
Mead-Briggs, M.	IIA, 8.3.2	1996	DPX-KX007 suspension concentrate (SC) formulation containing DPX-JE874 (90 g/L) and cymoxanil (120 g/L): An extended laboratory test to evaluate the effects on the parasitic wasp <i>Aphidius rhopalosiphi</i> when applied in up to six serial applications to tomato plants University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 3593-95 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Nengel, S.	IIA, 8.3.2	1996	Assessment of side effects of DPX-KX007 20 SC on the ground beetle, <i>Poecilus cupreus</i> L. (Coleoptera, Carabidae): Semi-field test GAB Biotechnologie GmbH AMR 3570-95 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Oberwalder, C.	IIA, 8.3.2	1997	A field study to evaluate the effects of DPX-KX007 WG a formulation containing DPX-JE874 (225 g ai/kg) and cymoxanil (300 gai/kg) on the predatory mite <i>Typhlodromus pyri</i> in vines (two locations in Germany) GAB Biotechnologie GmbH AMR 3969-96, Revision No. 1 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.

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Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. GLP or GEP Status (where relevant) Published or not	Owner	Reasons not submitted
Annex II					
Schmitz, A.	IIA, 8.2.1	1999a	Acute toxicity to zebra fish by leachate from a cymoxanil-treated lysimeter [REDACTED] [REDACTED] [REDACTED] AMR 4454-97 GLP: Yes Published: No	DuPont	Superseded by studies of acute toxicity of individual metabolites.
Schmitz, A.	IIA, 8.2.4	1999b	Acute toxicity to <i>Daphnia</i> by leachate from a cymoxanil-treated lysimeter Fraunhofer-Institut für Umweltchemie und Ökotoxikologie AMR 4453-97 GLP: Yes Published: No	DuPont	Superseded by studies of acute toxicity of individual metabolites.
Sloman, T.L.	IIA, 8.2.6	2003	IN-KP533: Influence on growth and growth rate of the blue-green alga <i>Anabaena flos-aquae</i> DuPont Haskell Laboratory; DuPont Experimental Station DuPont-11163 GLP: Yes Published: No	DuPont	Metabolite IN-KP533 was formed in significant quantities in sterile buffered media only and has no environmental relevance.
Thompson, B.	IIA, 8.3.2	1999a	Cymoxanil/famoxadone (DPX-KP481) 50 WG (25%:25%) an extended laboratory study to evaluate the effects on the hoverfly, <i>Episyrphus balteatus</i> University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4541-97 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.

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Annex II					
Thompson, B.	IIA, 8.3.2	1999b	Cymoxanil/famoxadone (DPX-KP481) 50 WG (25%;25%): A semi- field study to evaluate the effects on aphid parasitoids, (Hymenoptera, Aphidiinae) in a potato crop University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4542-97 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Thompson, B.	IIA, 8.3.2	1999c	Cymoxanil/famoxadone (DPX-KP481) 50 WG (25%;25%). An extended laboratory study to evaluate the effects on the green lacewing, <i>Chrysoperla carnea</i> University of Southampton, Agrochemical Evaluation Unit (AEU) AMR 4540-97, Revision No. 2 GLP: Yes Published: No	DuPont	Single active formulations preferred in Annex II, cymoxanil rates applied are below GAP maximum.
Watari, N.	IIA, 8.2.1	1993	Acute toxicity study of cymoxanil technical using carp [REDACTED] [REDACTED] 2704 GLP: No Published: No	DuPont	Study conducted to Japanese guidelines.
Williams, M.H.	IIA, 8.5	not stated	Evaluation of possible effects of DPX-3217 fungicide on nitrifying bacteria in two different soils DuPont Experimental Station CZ/ME 10 GLP: No Published: No	DuPont	Not in accordance with preferred guideline. Superseded.

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Author(s)	Annex No., EU Data Requirement No., Reference No.	Year	Title Source Company Report No. <u>Indication of the reason not submitted</u> Published or not	EU Data Protectio n Claimed (Y/N)	Owner
Annex III					
Oberwalder, C.	IIIA, 10.5.2./01	1996	A field study to evaluate the effects of DPX-KX007 WG, a formulation containing DPX-JE874 (225 g a.i./kg) and cymoxanil (300 g a.i./kg) on the predatory mite, <i>Typhlodromus pyri</i> in vines (two locations in Germany) GAB Biotechnologie, GmbH AMR 3969-96 Superseded by revision Published: No	N	DuPont
Samel, A.	IIIA, 10.2.1/01	1998	DPX-KP481: Static, acute toxicity to rainbow trout, <i>Oncorhynchus mykiss</i> , in the presence of sediment [REDACTED] DuPont-1296 Study not performed according to guideline (OECD 203) Published: No	N	DuPont

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Oxon ... OXON Italia SpA

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