ENDOSULFAN

ADDENDUM September 2001

REFERENCES RELIED ON

B.1 Identity

Annex IIA, or Annex IIIA, point(s)	Year	Author(s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
	1999	S. Benjamin Preliminary analyses of five representative production batches of Endosulphan Technical grade active ingredient (TGAI) to determine % Endosulphan and to quantify its associated impurities JRF Study No.: 2255	Y		Excel	N

B.2 Physical and chemical properties

Annex IIA, or Annex IIIA, point(s)	Year	Author(s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
	1999	K. Ayyavoo Accelerated storage stability of Endosulfan 35 EC JRF Study No.: 1726	Y	-	Excel	N
	1999	K. Ayyavoo Physical state of Endosulfan 35 EC (colour & appearance) JRF Study No.: 2057	Y	-	Excel	N
	1987	FAO 6, 7, 8, 9, 10, 10-hexacloro-1, 5, 5a, 9, 9a-hexahydro-6, 9-methano-2, 4, 3-benzo[e]dioxathiepin 3-oxide	N	Y	Publ.	N
	2001	K.A. Sayyad Appearance (colour, physical state and odour) on Endosulfan Technical. JRF Study No.: 3149	Y	-	Excel	N

B.3 Further information and efficacy

Annex IIA, or Annex IIIA, point(s)	Year	Author(s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 3.5.2	1989	Knauf, Werner; Waltersdorfer, Anna The Insecticidal Efficacy of Endosulfandiol (Hoe 051329), Endosulfanlacton (Hoe 051328), Endosulfansulfate (Hoe 051327) in comparison with Endosulfan (Hoe 002671) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A41240	N	N	AgrEvo	N
IIA, 3.8.1	1995	Kuebel Endosulfan substance, technical (Code: Hoe 002671 00 ZD97 0003) Safe disposal and controlled incineration Hoechst Schering AgrEvo GmbH, Logistik Frankfurt. Report No.: A55971	Y	N	AgrEvo	N
IIIA, 4.1.1	1995	Simon-Hullmann,U., Rexer, K. Endosulfan emulsifiable concentrate 352 g/l. Information on packaging Hoechst Schering AgrEvo, Forsch.Formulierung, Germany. Report No.: A54121	N	N	AgrEvo	N
IIIA, 4.2	1996	Schoeni J.P.; Rexer, K. Endosulfan emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B300) Determination of the pourability Hoechst Schering AgrEvo GmbH, Research Formulations, Frankfurt. Report No.: A56408	Y	N	AgrEvo	N
IIIA, 4.4	1995b	Kuebel Endosulfan, emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B300) Procedures to minimize the generation of waste and leftovers Hoechst Schering AgrEvo GmbH, Logistik Frankfurt. Report No.: A55972	Y	N	AgrEvo	N
IIIA, 4.6.2	1985a	Dehmer; Albrecht; Endosulfan Emulsifiable Concentrate 352 g/l Hoechst Pfl.Formul., Germany. Report No.: A30561	N	N	AgrEvo	N
IIIA, 4.6.2	1985b	Dehmer; Albrecht; Endosulfan Emulsifiable Concentrate 352 g/l Hoechst Pfl.Formul., Germany. Report No.: A30562	N	N	AgrEvo	N

Annex IIA, or Annex IIIA, point(s)	Year	Author(s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIIA, 4.6.2	1995a	Kuebel Endosulfan, emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B300) Safe disposal and controlled incineration Hoechst Schering AgrEvo GmbH, Logistik Frankfurt. Report No.: A55970	Y	N	AgrEvo	N
IIIA, 4.6.3	1996	Rexer K. Endosulfan, emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B300) Guidelines for decontamination and disposal of empty containers Hoechst Schering AgrEvo GmbH, Research Formulations, Frankfurt. Report No.: A56063	Y	N	AgrEvo	N

B.4 Proposal for classification and labelling

The applicant has not submitted any reference concerning this point.

B.5 Methods of analysis

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.0/01	1968	Maier-Bode, H. Properties, effect, residues and analytic of the insecticide endosulfan Residue Reviews, vol. 22; item VI	N	Y	Publ.	N
IIA, 4.0/02		Endosulfan: its effects on environmental quality, National Research Council Canada Report No.: 11, annex 1-8; 77-84	N	Y	Publ.	N
IIA, 4.0/03	1982	Goebel, H., *et. al* Properties, effect, residues and analitycs of the insecticide endosulfan. Residue reviews, vol. 83, item 2	N	Y	Publ.	N
IIA, 4.0/04		Endosulfan Technical - Gas Chromatographic Metod	N	Y	Publ.	N
IIA, 4.1	1984	WHO Environmental Health criteria 40, endosulfan. WHO Geneva, Item 2	N	Y	Publ.	N
IIA, 4.1/02	1995	Vogels, M.P.W. Development and validation of an Analytical Method for Endosulfan purified. Report No.: R035	Y	N	Calliope	Y
IIA, 4.1/02	1995	Vogels, M.P.W. Determination of the Toluene content and purity of Endosulfan Technical Report No.: R036	Y	N	Calliope	Y
IIA, 4.1/03	1995	Gramberg, L.; Tas, A.C. Primary screening GC-MS of endosulfan technical. Report No.: R037	Y	N	Calliope	Y
IIA, 4.1.1; IIIA, 5.5.1	1980	Bathe, W.; Winterscheidt, H. Hoe 02671 (Endosulfan). Analytical method for determination in the technical grade active principle and in formulations Hoechst Analyt.Labor., Germany. Report No.: A19664	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.1.1; IIIA, 5.1.1	1992	Hommel, K.; Sommer, D. Hoe 002671 (endosulfan) Determination in the technical grade active ingredient and formulations by gaschromatography, using internal standard calibration Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A49026	N	N	AgrEvo	N
IIA, 4.1.2	1993	Weller, O.; Guebert, M.; Guebert, C: Validation of the analytical methods AL008/92-1 and AL009/92-0 for the determination of organic impurities and toluene in technical endosulfan (Hoe 002671) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A51217	N	N	AgrEvo	Y
IIA, 4.1.2	1993	Weller, O.; Hommel, K.; Guebert, C: Determination of toluene in endosulfan (Hoe 002671) using gas chromatography with an internal standard Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A51150	N	N	AgrEvo	Y
IIA, 4.1.2	1993	Weller, O.; Hommel, K.; Guebert, C: Determination of secondary components in Hoe 002671 (endosulfan) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A51151	N	N	AgrEvo	Y
IIA, 4.2	1976	Musial, C.J., *et. al.* A simple procedure for the confirmation of residues of alfa- and beta-endosulfan, dieldrin, endrin and heptachlor epoxide Bull. Environ. Contam. & Toxicol. Vol. 16, No 1, 98-100	N	Y	Publ.	N
IIA, 4.2.1	1987	DFG Organochlorine, Organophosphorus, Nitrogen-Containing and Other Pesticides - Multimethod S19 Report file No: A50868 Thier and Zeumer, 1987/1992, DFG/ Dt. Forschungsgemeinschaft, Manual of pesticide residue analysis, Volume I/II pages 383-400, 317-323	N	Y	Publ.	N
IIA, 4.2.1	1988	Fuchsbichler, G. Residue determination in hops (green hops, dried hops, spent hops/grain and beer) Hoechst Analyt.Labor., Germany. Report No.: A40159	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.1	1995	Garner, M.A.; Snowdon, P.J. Endosulfan; analytical grade; active ingredient; Code : Hoe 002 671; Validation of analytical method; crops; gas chromatography AgrEvo UK Limited; England. Report No.: A55596	Y	N	AgrEvo	Y
IIA, 4.2.1	1971	Gorbach, S. Determination of Endosulfan (alpha- und beta-Isomer) and Endosulfansulfate in Dried-green-tea, Processed-tea and Tea-infusions Prepared Thereof Hoechst Analyt.Labor., Germany. Report No.: A31719	N	N	AgrEvo	N
IIA, 4.2.1	1972	Gorbach, S. Analytical method for the determination of Endosulfan in biological material (active substance in the sales product Thiodan (R)) Hoechst Analyt.Labor., Germany. Report No.: A31262	N	N	AgrEvo	N
IIA, 4.2.1	1969	Gorbach, S. Endosulfan. Apples, pears, beans, peas, garlic, cabbage, nuts and other oily fruits, peach and other stone fruit, spinach, tomatoes, onions Gaschromatograhical determination. Hoechst Analyt.Labor., Germany, Report No.: A01579 1969, Rückstandsanalytik von Pflanzenschutzmitteln (DFG-Sonderdruck), Mitt. VI, pages 50-1 to 50-6.	N	Y	Publ.	N
IIA, 4.2.1		Handelslab. Koerl/Specht Pflanzenschutzmittel-Rueckstaende Repot No.: A10213	N	N	AgrEvo	N
IIA, 4.2.1	1996	Hees, M.; Idstein, H.; Junker, H. Endosulfan, emulsifiable concentrate 352 g/l, Code: Hoe 002671 00 EC33 B324 Determination of residues of Hoe 002671 to establish a maximum residue level following 2 applications in tomatoes under greenhouse conditions Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt, Germany. Report No.: A54361	Y	N	AgrEvo	Y
IIA, 4.2.1	1974	Hoppe, T.; Carincotte; Robert, P. Residues of Plant Protection Chemicals Hoechst Analyt.Labor., DEU; Hoechst do Brasil, Brazil. Report No.: A01812	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.1	1996	Idstein, H.; Junker, H.; Klein, E.H.J. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B325 - Determination of residues of Hoe 002671 to establish a maximum residue level following 3 applications in mandarines Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report No.: A55213	Y	N	AgrEvo	Y
IIA, 4.2.1	1996	Idstein, H.; Junker, H.; Klein, E.H.J. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B325 Residue trials in apples to establish a Maximum Residue Level. Determination of active substances and the metabolite decline following 2 applications in apples and processing to apple puree and apple juice Hoechst Schering AgrEvo GmbH, Development Residues and Consumer Safety, Germany. Report No.: A55874	Y	N	AgrEvo	Y
IIA, 4.2.1	1996	Idstein, H.; Junker, H.;Sonder, K.H. Endosulfan, emulsifiable concentrate, 352 g/L Code: Hoe 002671 00 EC33 B325 Determination of Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Tomatoes under Greenhouse Conditions Hoechst Schering AgrEvo GmbH, Development Residues and User Safety, Germany. Report No.: A54360	N	N	AgrEvo	Y
IIA, 4.2.1	1995	Idstein, H.; Junker, H.; Becker, D. Determination of Hoe 002671 (endosulfan) and Hoe 051327 (endosulfan-sulfate) in potatoes by gas chromatography (modified DFG S19 method) Hoechst Schering AgrEvo GmbH; Germany. Report No.: A55564	N	N	AgrEvo	Y
IIA, 4.2.1	1996	Klein, E.H.J:; Idstein, H.; Becker, D. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B325 Determination of residues of Hoe 002671 to establish a maximum residue level following 3 applications in oranges Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report No.: A55226	Y	N	AgrEvo	Y
IIA, 4.2.1	1981	Kuenzler, K.; Fechner, H. Hoe 02671 (endosulfan) in biological materials, residue determination by gas chromatography Hoechst Analyt.Labor., Germany. Report No.: A23318	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.1	1983	Kuenzler, K.; Fechner, H. Hoe 002671 (endosulfan) in biological materials, residue determination by gas chromatography Hoechst Analyt.Labor., Germany. Report No.: A26009	N	N	AgrEvo	N
IIA, 4.2.1	1996	Sonder, K. H., Idstein, H.; Junker, H. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B324 - Determination of residues of Hoe 002671 to establish a maximum residue level following 2 applications in tomatoes for industrial use under field conditions Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report no. A54363	Y	N	AgrEvo	Y
IIA, 4.2.1	1996	Sonder, K.H.; Idstein, H.; Junker, H. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B325 Determination of Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Tomatoes for Industrial Use under Field conditions Hoechst Schering AgrEvo GmbH, Development Residues and User Safety, Germany. Report No. A54362	Y	N	AgrEvo	Y
IIA, 4.2.1	1996	Sonder, K.H.; Idstein, H.; Junker, H. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B324 Determination of Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Apples Hoechst Schering AgrEvo GmbH, Development Residues and Consumer Safety, Germany. Report No.: A54359	Y	N	AgrEvo	Y
IIA, 4.2.1	1980	Specht, Wolfgang, Tillkes, Monika Gas-chromatographische Bestimmung von Rueckstaenden an Pflanzenbehandlungsmitteln nach Clean-up ueber Gel-Chroma- tographie und Mini-Kieselgel-Saeulen-Chromatographie, 3. Mitt. - Sammelmethode Handelslab.Koerl/Specht, Germany. Report No.: A20145 Fresenius Z. Anal. Chem. 301, 300-307 (1980)	N	Y	Publ.	N
IIA, 4.2.1	1979	Thier, W. Change in the ENDOSULFAN Content of Soybean Flour During Baking Hoechst Analyt.Labor., Germany. Report No.: A18653	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.1	1984	Thier, W.; Fisher, H.; Merz, H.D. Hoe 002671 (endosulfan), content determination in feed for small animals by gas chromatography (tested in Altromin feed) Hoechst Analyt.Labor., Germany. Report No.: A32172	N	N	AgrEvo	N
IIA, 4.2.1		Working group for the development and improvement of residue-analytical methods. Multi-residue Method 1. Pesticides amenable to gas chromatography Report file No: A57245 General Inspectorate for Health Protection, Ministry of Public Health, Welfare and Sport, The Netherlands, 1996, Analytical Methods for Pesticide Residues in Foodstuffs, Sixth Edition, Part 1, Pages 1-22.	N	Y	Publ.	N
IIA, 4.2.1; IIIA, 4.2.5	1986	Werner, H. J.; Klante, G.; Merz, H.D. Residue determination of the active ingredient and Endosulfan-sulfate in soil, water, urine and plant--material as well as of Endosulfan-diol and Endosulfan- -lactone in soil, water and urine Hoechst Analyt.Labor., Germany. Report No.: A34558	N	N	AgrEvo	N
IIA, 4.2.1/01; 4.2.2/01	1979	Carey; A.E.; Gowen, J.A.; Tai, H.; Mitchell, W.G.; Wiersma, G.B. Pesticide residue levels in soil and crops from 37 states, 1972 National soils monitoring program (IV), Pest. Monitor. Journal (12) 4: 209-229	N	Y	Publ.	N
IIA, 4.2.1/01/02	1980	Zanini, E.; *et. al.* Gas chromatographic determination of Vinclozolin and endosulfan in strawberries J. Agric. Food Chem. Vol 28, 464-466	N	Y	Publ.	N
IIA, 4.2.1/02	1976	Mitchell, L.R. Collaborative study of the determination of endosulfan, endosulfan sulfate, tetrasul and tetradifon residues in fresh fruits and vegetables Journ. Of the AOAC, vol. 59, No. 1, 209-212	N	Y	Publ.	N
IIA, 4.2.1/03	1989	Malgahaes, M.J.A; Ferreira, J.R.; Fructuoso, L.; Tainha, A.A. Study of the dissapearance of endosulfan, parathion, trichlorfon and pirimicarb from broccoli and Portuguese cabbage. Pest. Sci. 27: 23-31	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.1/04; 4.2.2/02	1991	Gorbach, S. Rückstandsanaltik von Pflnzenschutzmitteln: Endosulfan. Mitteilung VI der Senatskommission für Planzenschutz, Pflazenbehandlungs und Vorratsschutzmittel, 11. Lieferung	N	Y	Publ.	N
IIA, 4.2.2.1	1990	Seefeld, F. Validierungsbericht. Rueckstandsanalytik von Endosulfan in Boden Akad.Landwirtschaftswiss., Germany. Report No. A46890	N	N	AgrEvo	N
IIA, 4.2.2.1		Werner, H.J.; Klante, G.; Merz, H.D. Residue determination of the active ingredient and Endosulfan-sulfate in soil, water, urine and plant--material as well as of Endosulfan-diol and Endosulfan- -lactone in soil, water and urine Hoechst Analyt.Labor., Germany. Report No.: A34558	N	N	AgrEvo	N
IIA, 4.2.3/01	1971	Greve, P.A.; Wilt, S.L. Endosulfan in the Rhine water. Journal WPCF (43) 12: 2338-2348	N	Y	Publ.	N
IIA, 4.2.3.1	1988	Merz, H.D. Hoe 002671 (endosulfan), determination of alpha-endo-sulfan, beta-endosulfan and endosulfan sulphate in drinking water by gas chromatography Hoechst Analyt.Labor., Germany. Report No.: A39226	N	N	AgrEvo	N
IIA, 4.2.4	1993	Idstein, H.; Merz, H.D.; Klug, R. Determination of endosulfan (Hoe 002671) in air by gas chromatography Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A51944	N	N	AgrEvo	Y
IIA, 4.2.4	1993	Reichert, N. Validation of an Analytical Method for the Determination of Hoe 002671 (Thiodan) in Air RCC Umweltchemie GmbH & Co. KG, Germany. Report No.: A52486	Y	N	AgrEvo	Y
IIA, 4.2.4/01	1981	Bidleman, T.F. Interlaboratory analysis og high molecular weight organochlorines in ambient air. Atmospheric environment 15: 619-624	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 4.2.5/2	1985	Leist, K. H.; Mayer, M. 30-day feeding study in adult male Wistar rats Pharma Research Toxicology. Report No.: A37112	N	N	AgrEvo	N
IIA, 4.2.5/1	1965	Stanovick, R.P. Determination of Thiodan I, II and Sulfate residues in milk and cow tissues Niagara Chemical Division FMC Corporation, USA. Report No.: A14210	N	N	AgrEvo	N
	1984	World Health Organisation IPCS (International Programme on Chemical Safety) Environmental Health Criteria, 40. Endosulfan World Health Organosation, Geneva		Y	Publ.	N
Supplementary studies						
	1999	Martens, R. Enforcement method and validation for water by GC Deltamethrin Endosulfan (Codes: AE F032640; AE F002671) Hoechst Schering AgrEvo GmbH Study identification: CR 99/023 (C005528)	N	N	AgrEvo	

B.6 Toxicology

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5/01; 5.1/01	1968	Maier-Bode, H. properties, effect, residues and analitycs of the insecticide endosulfan. Residue review, vol. 22, item III	N	Y	Publ.	N
IIA, 5/02; 7/03; 8.0/01	1979	Gupta, P.K.; Gupta, R.C. Pharmacology, toxicology and degradation of endosulfan, a review. Toxicology, 13, 115-130	N	Y	Publ.	N
IIA, 5.1		See IIA, 6.2				
IIA, 5.1; 5.2/01	1984	WHO Environmental Health Criteria 40 Worlf Health Organization, Geneva, Item 5	N	Y	Publ.	N
IIA, 5.1/01	1966	Beck, E.W.; Woodham, D.W.; Johnson, Jr., J.C.; Leuck, D.B.; Dawsey, L.H.; Robbins, J.E.; Bowman, M.C. Residues of endosulfan in meat and milk of cattle Fed treated forages. J. Econ. Entomol., vol. 59, no. 6: 1444-1450	N	Y	Publ.	N
IIA, 5.1/02; 5.2.1/01; 5.8.1/01	1978	Wyman; Dorough, H.; Huhtanen, K.; Marshall, T.C.; Bryant, H.E. Fate of endosulfan in rats and toxicological considerations of apolar metabolites. Pest. Biochem. Physiol, vol. 8: 241-252	N	Y	Publ.	N
IIA, 5.1.1	1983a	Kellner, H.M.; Eckert Hoe 02671-^{14}C pharmacokinetics and residue determinations after oral and intravenous administration to rats. A49475	N	N	Hoe	N
IIA, 5.1.1/01	1981	Rao, V.R. Acute Oral Toxicity Study of Endosulfan Technical in Mice. [redacted]	N	N	Excel	N
IIA, 5.1.1/02; 5.1.2/01	1977	Srimal, R.C. Test report on acute toxicity of the two samples of pesticide (I) endosulfan technical and (2) endocel 35% None [redacted]	N	N	Excel	N
IIA, 5.1.1/03		Dikshith, T.S.S.	N	N	Excel	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Acute Oral Toxicity of Endosulfan Technical in chicken or Pigeon. None [redacted]				
IIA, 5.1.1/04		Dikshith, T.S.S. Acute Oral Toxicity of Endosulfan Technical in Pigeon. None [redacted]	N	N	Excel	N
IIA, 5.1.1/05; 5.1.2/04	1969	Gaines, T.B. Acute Toxicity of Pesticides Toxicology and Applied Pharmacology 14. 515-534	N	Y	Publ.	N
IIA, 5.1.1.2 / 5.1.1.3	1968	Christ; Kellner Investigations with endosulfan-^{14}C in mice [redacted] Germany. Report No.: A53842	N	N	AgrEvo	N
IIA, 5.1.1.3	1968	Gorbach, S. G.; Christ, O. E.; Kellner, H. M.; Kloss, G.; Boerner, E. Metabolism of ENDOSULFAN in Milk Sheep Generated by: Hoechst AG, Germany. Report No.: A14216 J. Agr. Food Chem. Vol. 16, No. 6. page 950. 1968	N	Y	Publ.	N
IIA, 5.1.2/02		Bhide, M.B. The acute dermal toxicity LD_{50} of Excel Industries Ltd's endosulfan technical No. 1 to the albino rabbits. None [redacted]	N	N	Excel	N
IIA, 5.1.2/03	1975	Gupta, P. K.; Chandra, S.V. The Toxicity of endosulfan in rabbits. Bull. Environm. Cont. & Toxc. Vol. 14 No. 5	N	Y	Publ.	N
IIA, 5.1.2.2	1987	Leist, K.-H.; Mayer, D. Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003), 30-Day Feeding Study in Adult Male Wistar Rats [redacted] Report No.: A37112	Y	N	AgrEvo	N
IIA, 5.1.2.4	1965	Gorbach, S. Investigations on Thiodan in the Metabolism of Milk Sheep [redacted] GermanyReport No.: A14209	N	N	AgrEvo	N
IIA, 5.1.2.5	1993	Indranignsih, McSweeney, C.S., Ladds, P.W. Residues of endosulfan in the tissues of lactating goats	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		[redacted] No.: A51447 Australian Vet. Journal. Vol. 70. pages 59 - 62. 1993				
IIA, 5.1.2.6	1959	Bowman, James S. Subacute Feeding - Dairy Cows, preliminary report [redacted] A14205	N	N	AgrEvo	N
IIA, 5.1.2.6	1959b	Keller, John G. Subacute Feeding Study - Dairy Cows. (Supplement to Report dated March 20, 1959) [redacted] A14206	N	N	AgrEvo	N
IIA, 5.1.3.1.1	1986	Craine, E.M. A Dermal Absorption Study in Rats with ^{14}C-Endosulfan [redacted] A35730	N	N	AgrEvo	N
IIA, 5.1.3.1.1; IIIA, 7.3	1988	Craine, Elliott M. A Dermal Absorption Study in Rats with 14C-Endosulfan with Extended Test Duration [redacted] A39677	Y	N	AgrEvo	N
IIA, 5.1.3.1.2; IIIA/7.3	1987	Lachmann, G.; Siegemund, B. Hoe 002671-(5a,9a-14-C). Dermal Absorption of 14C-Endosulfan in Rhesus Monkeys [redacted] A36685	Y	N	AgrEvo	N
IIA, 5.1.3.1.3	1995	Noctor, J. C.; John, S. A. (14C)-Endosulfan: Rates of penetration through human and rat skin determined using an in vitro system [redacted] Report No.: A54103	Y	N	AgrEvo	Y
IIA, 5.1.3.2; IIA, 5.1.2	1981	Robacker, Karen M.; Kulkarni, Arun P.; Hodgson, Ernest Pesticide Induced Changes in the Mouse Hepatic Microsomal Cytochrome P-450-Dependent Monooxygenase System and Other Enzymes [redacted] A35754 J. Environ. Sci. Health. Vol. B16, No. 5. pages 529-545. 1981	N	Y	Publ.	N
IIA, 5.1.3.2	1968	Schuphan, I,; Ballschmiter, K.; Toelg, G. Zum Metabolismus des Endosulfans in Ratten und Maeusen Univ.Mainz, Germany. Report No.: A14215	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Z. Naturforsch. Vol. 23b. No. 5. pages 701 - 706. 1968				
IIA, 5.1.5/01		Dikshith, T.S.S. Irritation of the mucose membrane in female rabbits None [redacted]	N	N	Excel	N
IIA, 5.1.5/02		Dikshith, T.S.S. Primary skin irritation test of endosulfan technical (female) None	N	N	Excel	N
IIA, 5.1.5/02		Dikshith, T.S.S. Primary skin irritation test of endosulfan technical (male) None	N	N	Excel	N
IIA, 5.1.6/01	1986	Lisi, P.; *et. al.* A test series for pesticide dermatitis Contact dermatitis, 15; 266-269	N	Y	Publ.	N
IIA, 5.2/02/03; 5.3/02; 5.5/03; 5.6/03; 5.8.2.1; 6.02	1986	Banerjee, B.D.; Hussain, Q.Z. Effect of sub-chronic endosulfan exposure on humoral and cell-mediated immune responses in albino rats [redacted] Report No.: A43391 Arch. Toxicology. Vol. 59. pages 279-284. 1986	N	Y	Publ.	N
IIA, 5.2.1	1988b	Diehl, K.-H.; Leist, K.-H. Hoe 002671 - active ingredient technical (Code: Hoe 002671 0I ZD96 0002) - Testing for acute oral toxicity in the male and female Wistar rat [redacted] A39680	Y	N	AgrEvo	N
IIA, 5.2.1; 5.2.2	1957	Elsea, John R. Progress Report: Acute Oral Administration, Acute Dermal Application, Acute Eye Application [redacted] A13683	N	N	AgrEvo	N
IIA, 5.2.1	1958	Elsea, John R. Acute Oral Administration [redacted] A13686	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.2.1	1958	Keller, John G. Final Report - Acute Oral Administration - Dogs [redacted] A13831	N	N	AgrEvo	N
IIA, 5.2.1	1971	Kretchmar, Beverly; Mastri, Carmen; Keplinger, M.L. Acute Oral Toxicity Studies with Two Samples of Endosulfan in Male Albino Rats [redacted] A13713	N	N	AgrEvo	N
IIA, 5.2.1	1957	Lindquist, Donald A.; Dahm, Paul A. Some Chemical and Biological Experiments with Thiodan [redacted] Report No.: A13684 J. Econ. Entomol. Vol.50, No.4. 483{Abs}486. 1957	N	Y	Publ.	N
IIA, 5.2.1	1970	Nogami, K. (Translator) Testing Report on the Toxicity of Endosulfan (Malix) to Dogs through Acute Oral Administration (LD 50) Not mentioned, obviously in Japan. Report No.: A13834	N	N	AgrEvo	N
IIA, 5.2.1	1975c	Reno, Frederick E. Acute Oral Toxicity Study in Rats - Endosulfan Technical. Final Report [redacted] A33732	N	N	AgrEvo	N
IIA, 5.2.1	1971a	Scholz; Weigand Acute Oral Toxicity of Thiodan Technical to the Male Sherman-Rat [redacted] Report No.: A16757	N	N	AgrEvo	N
IIA, 5.2.1	1971b	Scholz; Weigand Acute Oral Toxicity of Thiodan Technical to the Female Sherman-Rat [redacted] Report No.: A16758	N	N	AgrEvo	N
IIA, 5.2.2	1957	Elsea, John R. Progress Report: Acute Oral Administration, Acute Dermal Application, Acute Eye Application [redacted] A13683	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.2.2	1988a	Diehl, K.-H.; Leist, K.-H. Endosulfan - active ingredient technical (Code: Hoe 002671 0I ZD96 0002) Testing for acute dermal toxicity in the male and female Wistar rat [redacted] Report No.: A39397	Y	N	AgrEvo	N
IIA, 5.2.2/01	1981	Gupta, P.K.; *et. al.* Toxicity of endosulfan and Maganese, Chloride: Cumulative Toxicity Rating. Toxicology Letters, 7; 221-227	N	Y	Publ.	N
IIA, 5.2.3	1983	Hollander, H.; Weigand, W. Hoe 002671 - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003). Testing for Acute Aerosol Inhalation Toxicity in Male and Female SPF Wistar Rats. 4 Hours - LC50 [redacted] Report No.: A32087	Y	N	AgrEvo	N
IIA, 5.2.4	1975b	Reno, Frederick E. Primary Skin Irritation Study in Rabbits - Endosulfan Technical. Final Report [redacted]: A33731	N	N	AgrEvo	N
IIA, 5.2.5	1975a	Reno, Frederick E. Acute Eye Irritation Potential Study in Rabbits - Endosulfan Technical. Final Report [redacted]: A33730	N	N	AgrEvo	N
IIA, 5.2.6	1983	Jung; Weigand Hoe 002671 – Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003). Test for Sensitizing Properties in Female Pirbright-White Guinea Pigs According to the Method of BUEHLER [redacted] Report No.: A27248	N	N	AgrEvo	N
IIA, 5.3/01	1989	Singh, S.K.; Pandey, R.S. Differential effects of chronic endosulfan exposure to male rats in relation to hepatic drug metabolism and androgen biotransformation. Indian Journal of Biochemistry & Biophysics. Vol. 26; 262-267	N	Y	Publ.	N
IIA, 5.3.1/01	1978	U.S. Departament of health, education and welfare Bioassay of endosulfan for possible carcinogenicity. [redacted]	N	Y	Publ.	N
IIA, 5.3.1/02	1981	Reuber, M.D.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		The role of toxicity in the carcinogenicity of endosulfan. The Science of the total environment, 20; 23-47				
IIA, 5.3.2.1/2	1985	Barnard, A.V.; Jones, D.R.; Powell, L.A.J. Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) 13 Week Toxicity Study in Rats Followed by a 4-Week Withdrawal Period (Final Report) [redacted] No.: A30700	Y	N	AgrEvo	N
IIA, 5.3.2.1	1979	Khanna, R.N.; Misra, D.; Anand, M.; Sharma, H. K. Distribution of Endosulfan in Cat Brain Industrial Toxicology Research Centre, India. Report No.:A19001 Bull. Environm. Contam Toxicol. Vol.22. pages 72-79. 1979	N	Y	Publ.	N
IIA, 5.3.2.1	1989	Muellner, H. Effects of Endosulfan and Aldicarb on rat brain Acetylcholinesterase [redacted] Germany. Report No.: A43395	N	N	AgrEvo	N
IIA, 5.3.2.3	1967	Baran, John; Kodras, Rudolph; Faucher, Otis E. Two-Year Chronic Oral Toxicity of Thiodan Technical - Beagle Dogs [redacted] A13914	N	N	AgrEvo	N
IIA, 5.3.2.3/3	1989	Brunk, R. Endosulfan - substance technical (Code: Hoe 002671 0I ZD96 0002) Testing for toxicity by repeated oral administration (1-year feeding study) to Beagle dogs [redacted] Report No.: A40441	Y	N	AgrEvo	Y
IIA, 5.3.2.3	1959a	Keller, John G. Thiodan Technical, Final Report, Repeated Oral Administration - Dogs [redacted] A13924	N	N	AgrEvo	N
IIA, 5.3.2.4	1984	Barnard, A. V.; Atkinson, J. S.; Heywood, R. et al. Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) 13-Weeks Toxicity Study in Mice (Final Report) [redacted] No.: A29663	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.3.2.5	1985	Donaubauer, H.H.; Leist, K.-H.; Kramer, M. Endosulfan - Substance Technical (Code: Hoe 00267 0I ZD97 0003) 42-day Feeding Study in Mice [redacted] Report No.: A38104	Y	N	AgrEvo	N
IIA, 5.3.3.1	1988	Dikshith, T.S.S.; Raizada, R.B.; Kumar, S.N. Effect of repeated dermal application of Endosulfan to rats [redacted] A41365 Vet. Human Tox. Vol. 30. pages 219 - 224. 1988	N	Y	Publ.	N
IIA, 5.3.3.1	1985a	Ebert, E.; Leist, K.-H.; Kramer, M. Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) Testing for Subchronic Dermal Toxicity (21 Applications over 30 Days) in Wistar Rats [redacted] Report No.: A30753	Y	N	AgrEvo	N
IIA, 5.3.3.1	1985b	Ebert, E.; Leist, K.-H.; Kramer, M. Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) Testing for Subchronic Dermal Toxicity (21 Applications over 30 Days) in SPF Wistar Rats [redacted] Report No.: A30754	Y	N	AgrEvo	N
IIA, 5.3.3.1	1985c	Ebert, E.; Leist, K.H.; Kramer, M. Toxicological review of studies 721 and 729 (reports 84.0321 and 84.0223) [redacted] Report No.: A30755	Y	N	AgrEvo	N
IIA, 5.3.3.2	1984	Hollander, H., Weigand, W., Kramer, M. Endosulfan-Active Ingredient Technical. (Code: Hoe 002671 0 I ZD97 0003) Testing for Subchronic Inhalation Toxicity - 21 Exposures in 29 Days - in SPF Wistar Rats [redacted] Report No.: A29823	Y	N	AgrEvo	N
IIA, 5.4/01	1995a	Dighe, R.P. *Salmonella Typhimurium* reverse mutation assay of endosulfan technical. OECD guideline 471 IIT No.: 1395 Indian Institute of Toxicology 98/A10, Pune 411 013	Y	N	Excel	N
IIA, 5.4/02a	1995	Dighe, R.P.	Y	N	Excel	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		In vivo mammalian mouse bone marrow micronucleus test of endosulfan technical of Excel Industries Ltd., Bombay. Study Plan. Excel Industries, Ltd. [redacted]				
IIA, 5.4/02	1995b	Dighe, R.P. In vivo mammalian mouse bone marrow micronucleus test of endosulfan technical of Excel Industries Ltd. IIT No.: 1396 [redacted]	Y	N	Excel	N
IIA, 5.4/03	1990	Pandey, N.; *et. al.* Studies on the genotoxicity of endosulfan, an organochlorine insecticide, in mammalian germ cells. Mutation Research 242, 1-7	N	Y	Publ.	N
IIA, 5.4/04; 5.4.3/02/03	1984	Velázquez, A.; *et. al.* Mutagenicity on the insecticide endosulafan in *Drosophila melanogaster.* Mutation Research, 136, 115-118	N	Y	Publ.	N
IIA, 5.4/06	1980	Rani, M.V.U., *et. al.* Mutagenicity studies involving Aldrin, endosulfan, dimethoate, phosphamidon, carbaryl and ceresan Bull. Environm. Contam. Toxicol. 25, 277-282	N	Y	Publ.	N
IIA, 5.4/07	1986	Dzwonkowska, A.; Hübner, H. Induction of chromosmal aberrations in the Syrian hamster by insecticides tested in vivo. Arch. Toxicology 58, 152-156	N	Y	Publ.	N
IIA, 5.4/08	1993	Paul, V.; *et. al.* Effect of Chronic endosulfan treatment on pharmacological actions of diazepam in rats. Bull. Environm. Contam. Toxicol. 51, 18-23	N	Y	Publ.	N
IIA, 5.4/09; 5.4.1/01	1983	Sobti, R.C.; *et. al.* Cytokinetic and Cytogenetic effect on agricultural chemicals on human lymphoid cells in vitro Arch. Toxicol. 52, 221-231	N	Y	Publ.	N
IIA, 5.4.1/02	1987	Pednekar, M.D.; Gandhi, S.R.; Netrawali, M.S. Evaluation of mutagenic actvivities of endosulfan, phosalone, malathion and permethrin before and after metabolic activation in the Ames Salmonella Test. Bull. Environ. Contam. Toxicol. 38/925-933	N	Y	Publ.	N
IIA, 5.4.1.1	1978	Shirasu, D.V.M.; Moriya, M.; Ohta, T. Microbial Mutagenicity Testing on ENDOSULFAN	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Inst.Environ.Toxicol., Japan. Report No.: A21215				
IIA, 5.4.1.2	1989	Asquith, J. C.; Baillie, J. H. Endosulfan substance technical (Code Hoe 002671 0I ZD95 0005) Metaphase Analysis of Human Lymphocytes Toxicol Lab. Ltd., United Kingdom. Report No.: A40411	Y	N	AgrEvo	N
IIA, 5.4.1.2	1986	Pirovano, R.; Millone, M.F. Chromosome Aberration in Human Lymphocytes Cultured "in vitro" [redacted] A33127	Y	N	AgrEvo	N
IIA, 5.4.1.3	1984b	Cifone, Maria A.; Myhr, Brian C. Mutagenicity Evaluation of Hoe 002671 - Substance Technical in the Mouse Lymphoma Forward Mutation Assay. Final Report [redacted] A29801	Y	N	AgrEvo	N
IIA, 5.4.1.3	1984a	Mellano, Diego; Milone, Marco Ferro Study of the Mutagenic Activity `in vitro` of the Compound Endosulfan - Technical (Code Hoe 002671 0I ZD97 0003) with Schizosaccharomyces pombe RBM, Italy. Report No.: A29312	Y	N	AgrEvo	N
IIA, 5.4.2/01	1978	Dikshith, T.S.S.; Datta, K.K. Endosulfan: lack of cytogenetic effects in male rats. Bull. Environ. Contam. Toxicol. 20: 826-833	N	Y	Publ.	N
IIA, 5.4.2/02; 5.4.3/01	1980	Usha Rani, M.V.; Reddi, O.S.; Reddy, P.P. Mutagenicity studies involving aldrin, endosulfan, dimethoate, phosphamidon, carbaryl and ceresan. Bull. Environ. Contam. Toxicol. 25: 277-282	N	Y	Publ.	N
IIA, 5.4.2.1	1988a	Mueller, W. Endosulfan - Substance, technical (Code: Hoe 002671 0I ZD95 0005) Micronucleus Test in Male and Female NMRI Mice After Oral Administration [redacted] Report No.: A38059	Y	N	AgrEvo	N
IIA, 5.4.2.2	1984a	Cifone, Maria A.; Myhr, Brian C.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Evaluation of Hoe 002671 - Substance Technical in the Rat Primary Hepatocyte Unscheduled DNA Synthesis Assay. Final Report [redacted] A29800				
IIA, 5.4.2.2	1984b	Mellano, D.; Milone, M., F. Study of the Mutagenic Activity of the Compound Endosulfan - Technical (Code Hoe 002671 0I ZD97 0003) with Saccharomyces cerevisiae. Gene Conversion - DNA Repair Test RBM, Italy. Report No.: A29313	Y	N	AgrEvo	N
IIA, 5.4.2.2	1988b	Mueller, W. Evaluation of Endosulfan substance, technical (Code: Hoe 002671 0I ZD95 0005) in the unscheduled DNA Synthesis Test in Mammalian Cells in Vitro Hoechst Pharma Fo.To., Germany. Report No.: A38445	Y	N	AgrEvo	N
IIA, 5.5/01	1989	Singh, S.K.; Pandey, R.S. Gonadal toxicity of short term chronic endosulfan exposure to male rats. Indian Journal of Biology. Vol. 27; 341-346	N	Y	Publ.	N
IIA, 5.5/01/02	1978	Metrek, a team of authors. Bioassay of endosulfan for possible carcinogenicity, cas no. 115-29-7, NCI-TR-62 [redacted] Technical Report Series. No.: 62	N	Y	Publ.	N
IIA, 5.5/02	1990	Singh, S.K.; Pandey, R.S. Effect of sub-chronic endosulfan exposure on plasma, gonadotrophins, testosterone, testicular testosterone and enzymes of androgen biosynthesis in rat. Indian Journal of Experimental Biology. Vol. 28; 953-956	N	Y	Publ.	N
IIA, 5.5.1	1990	Gopinath, C.; Cannon, M. W. J. Endosulfan, Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) Combined Chronic Toxicity/Carcinogenicity Study (104-week feeding in rats). Photomicrographic Addendum to Histopath. Report HST/289 [redacted] No.: A44604	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.5.1/01; 5.6.2.1	1978	Gupta, P.K.; Chandra, Satya V.; Saxena, D.K. Teratogenic and Embryotoxic Effects of Endosulfan in Rats [redacted] A17149 Acta Pharmacol. Toxicol. Vol. 42. pages 150-152. 1978	N	Y	Publ.	N
IIA, 5.5.1/2/3	1995	Hack R.; Ebert E.; Leist K.-H. Chronic toxicity and carcinogenicity studies with the insecticide Endosulfan in rats and mice [redacted] No. A55880 [redacted] Fd Chem. Toxic, 1995, 33, 11, 941-950	Y	Y	Publ.	N
IIA, 5.5.1	1959	Keller, John G. Thiodan Technical, Final Report, Two Year Chronic Feeding Study - Rats [redacted] A14037	N	N	AgrEvo	N
IIA, 5.5.1	1989a	Leist, K.-H. Amendment to Report No. HST 289/881067 (Doc No. A40440) Endosulfan, active ingredient technical (Code: Hoe 002671 0I ZD97 0003) combined chronic toxicity / carcinogenicity study (104-week feeding in rats) Residue Determination [redacted] Report No.: A41265	Y	N	AgrEvo	N
IIA, 5.5.1	1989	Ruckman, S.A.; Waterson, L.A.; Crook, D. Endosulfan, active ingredient technical (code: Hoe 002671 0I ZD97 0003) Combined chronic toxicity / cancerogenicity study (104-week feeding in rats) (Final report). [redacted] No.: A40440	Y	N	AgrEvo	N
IIA, 5.5.1	1978	Thomas, L.W.; Kornreich, M.R.; Walker,P. Bioassay of ENDOSULFAN for Possible Carcinogenicity [redacted]: A14117 Natl. Cancer Inst., Carcinogenesis, Techn. Rep. Series. No 62. 1978	N	Y	Publ.	N
IIA, 5.5.2	1988a	Donaubauer, H.H.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan - substance technical (Code: Hoe 002671 0I ZD97 0003), Carcinogenicity study in mice, 24 months feeding study [redacted] A38008				
IIA, 5.5.2	1988b	Donaubauer, H.H. Endosulfan - substance technical (Code: Hoe 002671 0I ZD97 0003) Carcinogenicity study in mice 24 months feeding study. Amendment to Document A38008 [redacted] A38884	Y	N	AgrEvo	N
IIA, 5.5.2	1989	Donaubauer, H.H. Amendment to the Report No.88.0278 Endosulfan-substance technical (Code: Hoe 002671 0I ZD97 0003) Carcinogenicity study in mice 24 months feeding study [redacted] A41617	Y	N	AgrEvo	N
IIA, 5.5.2	1989b	Leist, K.-H. Endosulfan - substance technical (Code: Hoe 002671 0I ZD97 0003) Carcinogenicity study in mice 24 months feeding study - Residue Determination - Amendment to Report No. 88.0278 of April 6, 1988 [redacted]: A41264	Y	N	AgrEvo	N
IIA, 5.5.3	1987	Flodstroem, S.; Waerngard, L.; Hemming, H.; Fransson, R.; Ahlborg, U. G. Tumour Promotion Related Effects by the Cyclodiene Insecticide Endosulfan Studied in Vitro and in Vivo [redacted] A43389 Pharmacol.Toxicol. Vol. 62. Pages 230 - 235. 1987	N	Y	Publ.	N
IIA, 5.6/01	1984	WHO Environmental Health Criteria 40 Worlf Health Organization, Geneva, Item 4	N	Y	Publ.	N
IIA, 5.6/02	1992	Gilbert, M.E. A characterization of chemical kindling with the pesticide endosulfan. Neurotos. And Tertology, Vol. 14, 151-158	N	Y	Publ.	N
IIA, 5.6.1	1982	Edwards, James A.; Hughes, Elizabeth W.; Almond, Richard H.	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Preliminary Investigation of the Effect of Endosulfan (Code, Hoe 02671 0I AT 209) on Reproduction of the Rat [redacted] No.: A29563				
IIA, 5.6.1	1984	Edwards, J. A.; Reid, Y. J.; Offer, J. M., Almond, R. H., Gibson, W. A. Effect of Endosulfan-Technical (Code: Hoe 02671 0I AT209) on Reproductive Function of Multiple Generations in the Rat [redacted] No.: A29428	Y	N	AgrEvo	N
IIA, 5.6.1	1965	Kennedy, Gerald; Calandra, J.C. Three-Generation Reproduction Study in Albino Rats on Thiodan [redacted]A14054	N	N	AgrEvo	N
IIA, 5.6.1	1985	Offer, John M. Addendum to HST 204 Effect of Endosulfan-Technical (Code: Hoe 02671 0I AT209) on the Reproductive Function of Multiple Generations in the Rat Histopathological Review of the Kidneys in Adult Rats of th F1B Generation. [redacted] Report No.: A30757	N	N	AgrEvo	N
IIA, 5.6.1/01, 5.1.1.1	1978	Dorough, H.W.; Huhtanen, K.; Marshall, T.C.; Bryant, H.E. Fate of ENDOSULFAN in Rats and Toxicological Considerations of Apolar Metabolites [redacted] A14276 Pesticide Biochem. Physiol. Vol. 8. pages 241 - 252. 1978	N	Y	Publ.	N
IIA, 5.6.1/02	1982	Wali, R. K.; *et. al.* Effects of a single oral dose of endosulfan on intestinal uptake of nutrients and on brush-border enzymes in rats. Toxicology letters, 12; 7-12	N	Y	Publ.	N
IIA, 5.6.2/01; IIIA, 7.1/03		Gorbach, S. Fate of pesticides in environment. Terminal residues of endosulfan. Fate of pesticides in environment, vol. VI, 283-285	N	Y	Publ.	N
IIA, 5.6.2.1	1993	Albrecht, M.; Baeder, Ch.	Y	N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoe 002671 - substance technical (Code: Hoe 002671 00 ZD98 0005) Testing for embryotoxicity in the Wistar rat after oral administration [redacted] A51695				
IIA, 5.6.2/01; 5.6.2.1	1978	Gupta, P.K.; Chandra, Satya V.; Saxena, D.K. Teratogenic and Embryotoxic Effects of Endosulfan in Rats [redacted] A17149 Acta Pharmacol. Toxicol. Vol. 42. pages 150-152. 1978	N	Y	Publ.	N
IIA, 5.6.2.1	1972	Haley, S.; Plank, J. B.; Wright, P. L.; Keplinger, M. L. Teratogenic Study with Thiodan Technical in Albino Rats [redacted] A14053	N	N	AgrEvo	N
IIA, 5.6.2.1	1980	MacKenzie, Karen M.; Rao, G.N.; Thomson, Gordon M. Final Report, Teratology Study with FMC 5462 in Rats [redacted] A21393	Y	N	AgrEvo	N
IIA, 5.6.2.2	1981	Dickie, S. M.; MacKenzie, K. M.; Rao, G. N. Teratology Study with FMC 5462 in Rabbits [redacted] A23192	Y	N	AgrEvo	N
IIA, 5.7	1983	Roberts, Nicholas L.; Phillips, Christine N.K. Acute Delayed Neurotoxicity Study with Endosulfan -Technical (Code: Hoe 002671 0I ZD97 0003) in the Domestic Hen [redacted] No.: A32153	Y	N	AgrEvo	N
IIA, 5.7/02	1976	Gupta, P.K. Endosulfan-induced neurotoxicity in mice and rats. Bull. Environm. Contam. Vol. 15, 708-713	N	N	Excel	N
IIA, 5.8.1.1	1991b	Ehling, G.; Leist, K.-H. Hoe 051329; substance technical (Code: Hoe 051329 00 ZD98 0001) Testing for acute oral toxicity in the male and female Wistar rat [redacted] Germany. Report No.: A45783	Y	N	AgrEvo	N
IIA, 5.8.1.1	1991d	Ehling, G.; Leist, K.-H.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoe 051327; substance, pure (Code: Hoe 051327 00 ZB99 0002) Testing for acute oral toxicity in the male and female Wistar rat [redacted] Germany. Report No.: A46286				
IIA, 5.8.1.1	1975a	Hollander; Kramer ENDOSULFAN Lactone. Acute Oral Toxicity in Male SPF-Wistar-Rats (Vehicle: Starch Suspension) [redacted] Germany. Report No.: A06964	N	N	AgrEvo	N
IIA, 5.8.1.1	1975b	Hollander; Kramer ENDOSULFAN Sulphate = NIA 7985. Acute Oral Toxicity in Male Beagle Dogs (Vehicle: Starch Suspension) [redacted] Germany. Report No.: A06965	N	N	AgrEvo	N
IIA, 5.8.1.1	1975c	Hollander; Kramer ENDOSULFAN Sulphate = NIA 7985. Acute Oral Toxicity in Female SPF-Wistar-Rats (Vehicle: Starch Suspension) [redacted] Germany. Report No.: A06966	N	N	AgrEvo	N
IIA, 5.8.1.1	1975d	Hollander; Kramer 1-Hydroxy ENDOSULFAN Ether. Acute Oral Toxicity in Female SPF-Wistar-Rats (Vehicle: Starch Suspension) [redacted] Germany. Report No.: A06967	N	N	AgrEvo	N
IIA, 5.8.1.1	1975e	Hollander; Kramer Comperative Test on the Acute Oral Toxicity of ENDOSULFAN Ether and ENDOSULFAN Alcohol in Female SPF-Wistar-Rats (Vehicle: Suspension) [redacted] Germany. Report No.: A07170	N	N	AgrEvo	N
IIA, 5.8.1.1	1975f	Hollander; Kramer ENDOSULFAN LACTONE Acute Oral Toxicity in Female SPF-Wistar-Rats (Vehicle:Starch Suspension) [redacted] Germany. Report No.: A07171	N	N	AgrEvo	N
IIA, 5.8.1.1	1971	Kramer; Weigand	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan-lactone (Vehicle: Sesame Oil). Acute Oral Toxicity to the Male and Female SPF-Wistar-K-Rat [redacted] Germany. Report No.: A18276				
IIA, 5.8.1.1	1982a	Weigand Akute orale Toxizitaet von Hoe 51329 an weiblichen Ratten [redacted] Germany. Report No.: A23296	N	N	AgrEvo	N
IIA, 5.8.1.1	1982b	Weigand Akute orale Toxizitaet von Hoe 51330 an weiblichen Ratten [redacted] Germany. Report No.: A23297	N	N	AgrEvo	N
IIA, 5.8.1.2	1991a	Ehling, G.; Leist, K.H. Hoe 051329; substance, technical (Code: Hoe 051329 00 ZD98 0001) Testing for acute dermal toxicity in the male and female Wistar rat [redacted] Germany. Report No.: A45829	Y	N	AgrEvo	N
IIA, 5.8.1.2	1991c	Ehling, G.; Leist, K.-H. Hoe 051327, substance, pure; (Code: Hoe 051327 00 ZB99 0002) Testing for acute dermal toxicity in the male and female Wistar rat [redacted] Germany. Report No.: A 46130	Y	N	AgrEvo	N
IIA, 5.8.1.3	1992	Stammberger, I. Hoe 051329 substance technical (Code: Hoe 051329 00 ZD99 0001) Study of the Mutagenic Potential in Strains of Salmonella typhimurium (Ames test) and Escherichia coli [redacted]ent Central [redacted]A49396	Y	N	AgrEvo	N
IIA, 5.8.1.3	1993a	Stammberger, I. Evaluation of Hoe 051329; Substance technical (Code: Hoe 051329 00 ZD99 0001) in the Unscheduled DNA Synthesis Test in Mammalian Cells in Vitro [redacted]ent Central [redacted]A49781	Y	N	AgrEvo	Y
IIA, 5.8.1.3	1993b	Stammberger, I.	Y	N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoe 051329; substance, technical micronucleus test in male and female NMRI mice after oral administration [redacted]ent Central A50772				
IIA, 5.8.1.4	1996a	Hammerl, R. Hoe 051329; substance technical (Code: Hoe 051329 00 ZD99 0002) Testing for sensitizing properties in the Pirbright-White guinea pig in a maximization test [redacted], Corporate A57234	Y	N	AgrEvo	Y
IIA, 5.8.1.4	1996b	Hammerl, R. Hoe 051329; substance technical (Code: Hoe 051329 00 ZD99 0002) Testing for sensitizng properties in the Pirbright-White guinea pig according to the technique of BUEHLER [redacted] A57233	Y	N	AgrEvo	Y
IIA, 5.8.1.4	1996c	Hammerl, R. Hoe 051329; substance technical (Code: Hoe 051329 00 ZD99 0002) Testing for primary dermal irritation in the rabbit [redacted] Corporate A56247	Y	N	AgrEvo	Y
IIA, 5.8.1.4	1996d	Hammerl, R. Hoe 051329; substance technical (Code: Hoe 051329 00 ZD99 0002) Testing for primary eye irritation in the rabbit [redacted] Corporate A56248	Y	N	AgrEvo	Y
IIA, 5.8.1.5	1964	Cervanka, Hildegard; Kay, John H.; Calandra, J.C. Ninety-Day Subacute Oral Toxicity of Thiodan Sulfate - Beagle Dogs [redacted] Report No.: A14328	N	N	AgrEvo	N
IIA, 5.8.1.5	1996a	Ebert, E., Hack, R. Supplement to report no. 95.0692 Hoe 051329, substance technical (Code: Hoe 051329 00 ZD99 0001) Subchronical oral toxicity (13-week feeding study) in the Wistar rat Neurotoxicity screening [redacted] Corporate A57068	Y	N	AgrEvo	Y
IIA, 5.8.1.5	1996b	Ebert, E.; Hack, R.		N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoe 051329, substance technival, (Code: Hoe 051329 00 ZD99 0001) Subchronic oral toxicity (13-week feeding study) in the Wistar rat [redacted] Corporate [redacted] A57069				
IIA, 5.8.1.5	1994	Stammberger, I. Hoe 051329 - substance technical (Code: Hoe 051329 00 ZD99 0001) Testing for toxicity by repeated oral administration to Beagle dogs (3-month feeding study) [redacted] Corporate [redacted] A53046	Y	N	AgrEvo	Y
IIA, 5.8.1.5	1965	Wolf Claude, B. S.; Calandra, J.C. 90-Day Subacute Oral Toxicity of Thiodan Sulfate - Albino Rats [redacted] No.: A14329	N	N	AgrEvo	N
IIA, 5.8.1.6	1968	Schuphan, I,; Ballschmiter, K.; Toelg, G. Zum Metabolismus des Endosulfans in Ratten und Maeusen [redacted] A14215 Z. Naturforsch. Vol. 23b. No. 5. pages 701 - 706. 1968	N	Y	Publ.	N
IIA, 5.8.2.1	1986	Banerjee, B.D.; Hussain, Q.Z. Effect of sub-chronic endosulfan exposure on humoral and cell-mediated immune responses in albino rats [redacted] Report No.: A43391 Arch. Toxicology. Vol. 59. pages 279-284. 1986	N	Y	Publ.	N
IIA, 5.8.2.1	1987	Banerjee, B.D.; Hussain, Q.Z. Effects of Endosulfan on Humoral and Cell-Mediated Immune Responses in Rats [redacted] Report No.: A43390 Bulletin Environ. Contam. Toxicol. Vol. 38. pages 435-441. 1987	N	Y	Publ.	N
IIA, 5.8.2.1	1982	Vos, J. G.; Krajnc, E. I.; Beekhof, P. K.; van Logten, M. J. Methods for Testing Immune Effects of Toxic Chemicals: Evaluation of the Immunotoxicity of Various Pesticides in the Rat [redacted] Report No.: A31625 Pesticide Chemistry: Human Welfare and the Environment (Proc. 5th Int. Congr. Pestic. Chem. pages 497-504. 1982	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.8.2.2	1995	Ahlborg, U.G., Lipworth, L., Titus-Ernstoff, L., Chung-Cheng, H., Hanberg, A., Baron, J., Trichopoulos, D. and Adami, H.-O. Organochlorine Compounds in Relation to Breast Cancer, Endometrial Cancer, and Endometriosis: An Assessment of the Biological and Epidemiological Evidence Institute of Environmental Medicine, Karolinska Institute, Sweden. Report No.: A57353 Critical Reviews in Toxicology, 1995, 25, 6, 463 - 531	N	Y	Publ.	N
IIA, 5.8.2.2	1996	ECPA ECPA Position Paper - Adequacy of Required Regulatory Hazard Testing for the Detection of Potential Hormonal Activity of Crop Protection Chemicals European Crop Protection Association, ECPA, Belgium. Report No.: A57354 European Crop Protection Assocation	N	Y	Publ.	N
IIA, 5.8.2.2	1991	Raizada, R. B., Srivastava, M. K., Dikshith, T. S. S. Lack of estrogenic effects of endosulfan : An organochlorine insecticide in rat Industrial Toxicilogy Research Center, India. Report No.: A57355 Nat. Acad. Sci. Letters, 1991, 14, 2, 103 - 107	N	Y	Publ.	N
IIA, 5.8.2.2	1994	Soto, A. M., Chung, K. L., Sonnenschein, C. The Pesticides Endosulfan, Toxaphene, and Dieldrin Have Estrogenic Effects on Human Estrogen-Sensitive Cells Tufts University School of Medicine, USA. Report No.: A57357 Environmental Health Perspectives, 1994, 102, 4, 380 - 383	N	Y	Publ.	N
IIA, 5.8.2.2	1995	Soto, A. M., Sonnenschein, C., Chung,K. L. et al. The E-SCREEN Assay as a Tool to Identify Estrogens: An Update on Estrogenic Environmental Pollutants University of Boston, USA. The paper was presented at the Symposium on Estrogens in the Environment, 9 - 11 Jan 1994, Washington, DC. Environmental Health Perspect 103, 1995, (Suppl 7):113 - 122,	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 5.8.2.2	1996	Stevens, J. T., Tobia, A., Lamb, J. C. et al. FIFRA Subdivision F Testing Guidelines: Are these tests adequate to detect potential hormonal activity for crop protection chemicals? Not stated. Report No.: A57358 submitted to J. Toxicol. Environ. Health	N	Y	Publ.	N
IIA, 5.9.2	1987	Bernardelli, Brenno C.; Gennari, Maurizio C. Death caused by indigestion of endosulfan. Case report [redacted] A43387 Journal of Forensic Sciences. Vol. 32, No. 4. pages 1109-1112. 1987	N	Y	Publ.	N
IIA, 5.9.2	1989	Geissbuehler, J.; Schlatter, I.; Schaffner, T. Cases of fatal poisoning with Endosulfan [redacted] Report No.: A57045 Schweiz. med. Wschr. Vol. 119, Suppl. 28. page 33. 1989	N	Y	Publ.	N
IIA, 5.9.2	1989	Sauer, W.; Jacober, B; Luft, D. Suizidale Intoxikation mit dem Insektizid Endosulfan Generated by: Medizin.Universitaetsklinik Tuebingen, Germany. Report No.: A43388 Intensivmed. Vol. 26. pages 35-37. 1989	N	Y	Publ.	N
IIA, 5.9.2	1988	Shemesh, Y.; Bourvine, A.; Gold, D.; Bracha, P. Survival after acute Endosulfan intoxication [redacted] A40161 Clinical Toxicology. Vol. 26, No. 3/4. pages 265-268. 1988	N	Y	Publ.	N
IIA, 5.9.3	1990	Maddy, K.T.; Edmiston, S.; Richmond, D. Illness,Injuries, and Deaths from Pesticide Exposures in California 1949-1988 California Dep. Food Agric., Sacramento, USA. Report No.: A54105 Rev. Environm. Contam. Toxicol. Vol. 114. Pages 57 - 123. 1990	N	Y	Publ.	N
IIA, 5.9.3	1988	Volger, B. Potentially Related Illnesses / Injuries of Exposure to Endosulfan in California. A Brief Summary 1976-1986 Hoechst-Roussel Agri-Vet, Sommerville, USA. Report No.: A54106	N	N	AgrEvo	N
IIA, 5.9.4 / 5.9.5.3	1984	Ebert; Weigand	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Testing of the Therapeutic Effect of Diazepam (Valium R) and Phenobarbital (Luminal R) in the Event of Acute Poisoning with Endosulfan - Active Ingredient Technical (Code: Hoe 002671 0I ZD97 0003) in Wistar Rats [redacted] A29211				
IIA, 5.9.5.3	1988	Shemesh, Y.; Bourvine, A.; Gold, D.; Bracha, P. Survival after acute Endosulfan intoxication Barzilai Medical Center, Israel. Report No.: A40161 Clinical Toxicology. Vol. 26, No. 3/4. pages 265-268. 1988	N	Y	Publ.	N
IIA, 5.9.6	1989	Geissbuehler, J.; Schlatter, I.; Schaffner, T. Cases of fatal poisoning with Endosulfan Pathol. Institut, Universitaet Bern, Switzerland. Reoprt No.: A57045 Schweiz. med. Wschr. Vol. 119, Suppl. 28. page 33. 1989	N	Y	Publ.	N
IIA, 5.10/01		Report on field monitoring studies on human volunteers and livestock with endocel (Endosulfan) 35 EC	N	N	Excel	N
IIA, 5.10/02		Medical data of endosulfan	N	N	Excel	N
IIA, 5.10/03		Health record of factory workers	N	N	Excel	N
IIA, 5.10/04	1967	Ely, T.S., *et. al.* Convulsions in thiodan workers Journal of occupational medicine, Vol. 9, No. 2	N	Y	Publ.	N
IIA, 5.10.2/01	1988	Shemesh, M.D. Survival after acute Endosulfan intoxication Clinical Toxicology. Vol. 26, No. 3/4. pages 265-268. 1988	N	N	Excel	N
IIA, 5.10.7/01		Excel Industries Medical data	N	Y	Publ.	N
IIIA, 7.1.1	1989a	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317). Testing for acute oral toxicity in the male and female Wistar rat	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		[redacted] A42355				
IIIA, 7.1.1	1989b	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l, (Code: Hoe 002671 00 EC33 B317). Testing for acute oral toxicity in the male and female NMRI mice [redacted] A42359	Y	N	AgrEvo	N
IIIA, 7.1.1	1990a	Ebert, E.; Leist, K.-H. Endosulfan; Emulsifiable Concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317), testing for acute oral toxicity in the male and female rabbit [redacted] A43165	Y	N	AgrEvo	N
IIIA, 7.1.1/01	1991a	Halaviat, B. Evaluation de la Toxicité Aigue chez le rat par voie orale Callistar 350 g/l d' endosulfan lot 1 Report No.: END/R0001 [redacted]	Y	N	Calliope	Y
IIIA, 7.1.1/01	1994a	Rijcken, W.R. Pels Assesment of acute oral toxicity with endosulfan 35% EC in the rat. Referenca No.: 127946 [redacted]	Y	N	Excel	N
IIIA, 7.1.2	1989c	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317). Testing for acute dermal toxicity in the male and female Wistar rat [redacted] A42278	Y	N	AgrEvo	N
IIIA, 7.1.2	1990b	Ebert, E.; Leist, K.-H. Endosulfan; Emulsifiable Concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317). Testing for acute dermal toxicity - limit test 400 mg/kg body weight - in the male and female New Zealand albino rabbit [redacted] A43164	Y	N	AgrEvo	N
IIIA, 7.1.2/01	1991a	Pinon, J.F. Evaluation de la Toxicité Aigue chez le rat par voie dermique Callistar 350 g/l d' endosulfan Report No.: END/R0002 [redacted]	Y	N	Calliope	Y
IIIA, 7.1.2/01	1994b	Rijcken, W.R. Pels Assesment of acute oral toxicity with endosulfan 35% EC in the rat. Referenca No.: 127957 [redacted]	Y	N	Excel	N

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IIIA, 7.1.3	1984	Hollander, H.; Weigand, W. Endosulfan - emulgierbares Konzentrat (500 g/l). Code: Hoe 002671 0I EC43 A 103. Akute Aerosolinhalation an maennlichen und weiblichen SPF-Wistar Ratten. 4 Stunden - LC 50 [redacted] A29562	Y	N	AgrEvo	N
IIIA, 7.1.4	1989d	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 (g/l) (Code: Hoe 002671 00 EC33 B317). Testing for primary dermal irritation in the rabbit [redacted] A42356	Y	N	AgrEvo	N
IIIA, 7.1.4/01	1991b	Halaviat, B. Evaluation de la Tolérance Cutanée chez le Lapin Callistar 350 g/l d' endosulfan lot 1 du 10.01.91 Report No.: END/R0003 [redacted]	Y	N	Calliope	Y
IIIA, 7.1.5/01	1991c	Halaviat, B. Evaluation de la Tolérance oculaire chez le Lapin Callistar 350 g/l d' endosulfan lot 1 du 10.01.91 Report No.: END/R0004 [redacted]	Y	N	Calliope	Y
IIIA, 7.1.4/01	1994c	Rijcken, W.R. Pels Primary skin irritation/corrosion study with endosulfan 35% EC in the rabbit (4 hour semi-occlusive application) Referenca No.: 127946 [redacted]	Y	N	Excel	N
IIIA, 7.1.5	1989e	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317), testing for primary eye irritation in the rabbit [redacted] A42223	Y	N	AgrEvo	N
IIIA, 7.1.6	1986	Ullmann, L.; Sachsse, K. Delayed Contact Hypersensitivity to Endosulfan-Emulsifiable Concentrate 352 (g/l) (Code: Hoe 002671 0I EC33 B310) in Albino Guinea Pigs. Buehler Test [redacted] A34194	Y	N	AgrEvo	N
IIIA, 7.1.6/01	1991b	Pinon, J.F. Recherche du pouvoir seneibilisant sur le cobaye albinos test de maximisation selon magnusson et kligman Produit Callistar 350 g/l d´endosulfan lot 1 du 10.01.91	Y	N	Calliope	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Report No.: END/R0005 [redacted]				
IIIA, 7.2	1994	Wolf, R. Working-hours required for application of plant protection products Report No: A53404	N	N	AgrEvo	N
IIIA, 7.2.1.2	1991	Idstein, H.; Wolf, R.; Merz, H.D. Endosulfan; emulsifiable concentrate; 352 g/l (Hoe 002671 0I EC33 B313); Endosulfan; oil in water emulsion; 350 g/l (Hoe 002671 0I EW31 A104); Comparative Examination of the user exposure during handling and application of an emulsifiable concentrate (352 g/l) and an oil in water emulsion (350 g/l) of Thiodan [redacted] Germany. Report No.: A49473	N	N	AgrEvo	N
IIIA, 7.2.1.2	1992	Idstein, H.; Wolf, R.; Merz, H.D. Endosulfan; emulsifiable concentrate; 352 g/l (Hoe 002671 0I EC33 B313); Examination of the user exposure during handling and application of ®Thiodan 35 liquid, using a knapsack sprayer Hoechst ; Produktentwicklung Oekologie II, Germany. Report No.: A49146	Y	N	AgrEvo	N
IIIA, 7.2.2	1993	Gilbert, A. J. Europoem - Guidance for bystander exposure data gathering Central Science Laboratory, MAFF; Hatching Green, Harpendon, Herfordshire, AL52BD, U.K.Report No. 53757	N	N	AgrEvo	N
IIIA, 7.2.3.1	1994	Siebers, J.; Smolka, S.E.; Nolting, H.G. Investigations on dichlofluanid and endosulfane in greenhouse air after pesticide application in cucumbers and chrysanthemums Federal Biological Research Centre Braunschweig. Report No.: A53509 Nachrichtenbl. Deut. Pflanzenschutzd. 1994, 46 (12), p282-286	N	Y	Publ.	N
IIIA, 7.3	1986	Craine, E.M. A Dermal Absorption Study in Rats with ^{14}C-Endosulfan [redacted] A35730	Y	N	AgrEvo	N
IIIA, 7.3	1995	Noctor, J. C.; John, S. A. (14C)-Endosulfan: Rates of penetration through human and rat skin determined using an in vitro system [redacted] Report No.: A54103	Y	N	AgrEvo	Y

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		British Crop Protection Council The pesticide manual incorporating The Agrochemicals Handbook, Tenth Edition		Y	Publ.	N
	1982	Goebel, H.; Gorbach, S.; Knauf, W.; Rimpau, R.H.; Hüttenbach, H. Properties, effects, residues and analyticcs of the insecticide endosulfan. Reidue reviews, Vol. 83		Y	Publ.	N
	1968	FAO/WHO Evaluations of some pesticide residues in food, endosulfan. Rome, Food and Agriculture Organisation of the United Nations		Y	Publ.	N
	1969	Evaluations of some pesticide residues in food, endosulfan. Rome, Food and Agriculture Organisation of the United Nations		Y	Publ.	N
	1984	World Health Organisation IPCS (International Programme on Chemical Safety) Environmental Health Criteria, 40, Endosulfan World Health Organisation, Geneva		Y	Publ.	
	1995	Pluigmen, M.H.M. Endosulfan/Callistar predictive operator exposure calculations using the UK predictive operator exposure model. Calliope, S.A.		N	Calliope	Y
References quoted by the Rapportuer						
	1997	Wade, M.G., Desaulniers, D., Leingartner, K., Foster, W.G. Interactions between endosulfan and dieldrin on estrogen-mediated proccesses in vitro and in vivo. Reprod Toxicol Nov. 1997; 11(6) : 791-798		Y	Publ.	N
	1996	Vonier, P.M.; Crain, D.A.; McLachlan, J.A.; Guillette, L.J. Jr.; Arnold, S.F. Interaction of environmental chemicals with the estrogen and progesterone receptors from the oviduct of the American alligator. Environ Health Perspect 1996 Dec; 104 (2) : 1318-1322		Y	Publ.	N
	1994	Soto, A.M.; Chung, K.L.; Sonnenschein, C. The pesticides endosulfan, toxaphene, and dieldrin have estrogenic effects on humen estrogen-sensitive cells. Environ Health Perspect 1994 Apr.; 102 (4) : 380-383		Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
	1993	Colborn, T.; vom Saal, F.S.; Soto, A.M. Developmental effects of endocrine-disrupting chemicals in wildlife and humans. Environ Health Perspect 1993 Oct.; 101 (5) : 378-384		Y	Publ.	N
	1996	Banerjee, B.D.; Koner, B.C.; Ray, A. Immunotoxicity of pesticides: perspectives and trends. Indian J. Exp. Biol. 1996 Aug.; 34 (8) : 723-733		Y	Publ.	N
Supplementary Information						
IIIA/7.1/A39426	1988	Enert, E. Endosulfan – water-dispersible powder (50 %) (Code: Hoe 002671 OI WP50 A501). Subchronic dermal toxicity (21 treatments in 30 days) in the Wistar rat. [redacted]No. 87.0664 [redacted]hology	Y	N	AgrEvo	Y
	1988	TSS Dikshith PhD, R.B. Raizada PhD, S.N. Kumar PhD, M.K. Srivastava PhD, R.A. Kaushal BSc, R.P. Singh BSc and K.P. Gupata MSc Effect of repeated dermal application of Endosulfan to Rats [redacted]	N	Publ.	AgrEvo	N
IIIA, 7.1/A39279	1988	Ph. Thévenaz, H. Luetkemeier, H.J. Chevalier, W. Vogeel, Ch. Terrier Endosulfan: Emulsifiable concentrate (Code: HOE 002671 OI EC34 A101) – Subchronic (4-week) repeated dose dermal toxicity study in rats. [redacted] A39279	Y	N	AgrEvo	Y
	1989	Edward, L. Carmines, Ph. D. Evaluation of the Human Hazards and risks associated with the application of Endosulfan Hoechst Celanase Corporation A 59892)	N	N	AgrEvo	Y
	1996	Mich, G. Operator expure in greenhouse during practical use of Plant Protection Products ECON Forschungs und Bewertungskonzepte für Umwelt und Gesundheitssicherheit GmbH C009112	Y	N	AgrEvo	Y
	1997	George M. Singer, Mark G. Bookbinder, David A. Winkler Biomonitoring exposure of workers during mixing/loading and application of THIODAN ® 35 EC (Endosulfan). Insecticide for control of coffee berry borers in Colombia. [redacted] EN-CAS Project number 95-028 – A58676	N	N	AgrEvo	Y
	1997	George M. Singer, Mark G. Bookbinder, David A. Winkler	N	N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Monitoring exposure of workers during Mixing/Loading and application of THIODAN ® 35 EC (Endosulfan). Insecticide for Control of coffee berry borers in Colombia [redacted] EN-CAS Project number 95-044 – A58632				
	2000	Chromosome aberration assay in bone marrow cells to the rat with Endosulfan, substance technical (Code AE F002671 00 1D99 0008) [redacted] C007976	N	N	AgrEvo	Y
	2000	Wicke, H. Monitoring exposure of workers during mixing/loading and application of brestanid flow (fentin-hydroxide) fungicide for control of potato late blight in the UK (Code AE F029664 00 SC41 A2) Aventis Crop Science GmbH CR 99/009 – C008680	N	N	Aventis	Y
	2001	Wicke, H.; K.H. Leist Update of the EU-summary on Endosulfan comments to toxicological studies, re-evaluation of the operator exposure and risk assessment for Thiodan 35EC (Code: AE F002671 00 EC33 B3) Aventis CropScience GmbH C010955	N	N	Aventis	Y
	2001	Leist, K. H. Comments to toxicological studies update of the EU-summary on Endosulfan; Skin penetration; AOEL calculation (Substance code: AE F002671) Aventis CropScience GmbH C011009	N	N	Aventis	Y
		Endosulfan – Estimation of the maximum amount absorbed by Colombian Farm workers and comparison between exposure and absorption. Hoechst and Shering C008763 – Report No. OE96/095	N	N	AgrEvo	Y
Further information, May 2001						
IIA, 5.2.4	1997a	Bremmer Primary Dermal Irritation in the rabbit Doc. No. A58442	Y	N	AgrEvo	Y
IIA, 5.2.5	1997b	Bremmer Primary Eye Irritation in the rabbit Doc. No. A58443	Y	N	AgrEvo	Y
IIA, 5.2.6	1996	Arcelin Contact hypersensitivity in albino guinea pigs. Maximization Test. Doc. No. A58132	Y	N	AgrEvo	Y
IIA, 5.4	1983	Jung, Weigand and Kramer	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Mouse micronucleus test following oral administration Report No. 83.0458				
IIA, 5.3.3.1/1	1985a	Ebert Subchronic dermal toxicity in Wistar rats Doc. No. A30750	Y	N	AgrEvo	Y
IIA, 5.4	1989	Rupa, D.S., Reddy, P.P. and Reddi, O.S. Chromosomal aberrations in peripheral lymphocytes of cotton field workers exposed to pesticides Published in Environmental Research, 49: 1-6		Y	Publ.	N
IIA, 5.4	1990	Fransson, R. Toxicological evaluation of the insecticide endosulfan Report No. A67384	N	N	AgrEvo	Y
IIA, 5.4	1991b	Rupa, D.S., Reddy, P.P. and Reddi, O.S. Clastogenic effct of pesticides in peripheral lymphocytes of cotton-field workers Published in Mutation Research, 261: 177-180		Y	Publ.	N
IIA, 5.4	1995	Sinha, N., Narayan, R., Shanker, R. and Saxena, D.K. Endosulfan-induced biochemical changes in the testis of rats. Published in Vet. Human Toxicol., 37: 547-549		Y	Publ.	N
IIA, 5.4	1996	Khan, P.K. and Sinha, S.P. Ameliorating effect of vitamin C on murine sperm toxicity induced by three pesticides (endosulfan, phosphamidon and mancozeb) Published in Mutagenesis, 11: 33-36		Y	Publ.	N
IIA, 5.4	1997	Sinha, N., Narayan, R. and Saxena, D.K. Effect of endosulfan on the tesis of growing rats. Published in Bull. Environ. Contam. Toxicol., 58: 79-86		Y	Publ.	N
IIA, 5.4	2000	Völkner, W. Chromosome aberration assay in bone morrow cells of the rat with Endosulfan Report No. 644101	Y	N	AgrEvo	N

B.7 Residue data

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 6.1.2	1990	Buerkle, W.L.; Wuerz, S.; Mueller, A. Hoe 002671 (Endosulfan)-14C, Metabolism in Tomato Plants after Three Applications at a Rate of 635 g/ha Hoechst C Produktentwicklung Oekologie 1, DEU. Report No. : A44894	Y	N	AgrEvo	N
IIA, 6.1.3	1995	Schwab, W. Endosulfan (Hoe 002671): Metabolism in apples (Malus sylvestris var. domestica) following single treatment of a young tree with 14C-labelled test substance Hoechst Schering AgrEvo GmbH, Umweltforschung, Germany. Report No.: A53662	Y	N	AgrEvo	Y
IIA, 6.1.4	1995	Buerkle W.L. Endosulfan Code: Hoe 002671 00 ZE97 0005 Metabolism in cucumber (Cucumis sativus) following three treatments with the 14C-labelled test substance at 7-day intervals and a nominal rate of 530 g a.i./ha each Hoechst Schering AgrEvo GmbH, {Abs}Environmental Sciences, Ecotoxicology, Germany. Report No.: A56011	Y	N	AgrEvo	Y
IIA, 6.1.5	1992a	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate - (352 g/l) (Code: Hoe 002671 00 EC33 B317) Investigation of the degradation behaviour in soil under field conditions (Stufe 2 in accordance with the BBA Guideline Part IV, 4-1) Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A53554	Y	N	AgrEvo	N
IIA, 6.1.5	1992b	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B317). Investigation of the degradation behaviour in soil under field conditions Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A54025	Y	N	AgrEvo	N
IIA, 6.1.5	1986	Krebs,B., Eickhoff, H., Raquet, H., Thier, W. Endosulfan – Quantitation of residues in vegetable Crops following uptake from contaminated soil Agric. Development Dept./Analytical Laboratory,{Abs}Hoechst AG, Frankfurt, Germany-West. Report No.: A53399	N	N	AgrEvo	N
IIA, 6.2	1965	Gorbach	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Investigations on Thiodan in the Metabolism of Milk Sheep [redacted] Report No.: A14209				
IIA, 6.2	1968	Gorbach, S. G.; Christ, O. E.; Kellner, H. M.; Kloss, G.; Boerner, E. Metabolism of ENDOSULFAN in Milk Sheep [redacted]. A14216 J. Agr. Food Chem. Vol. 16, No. 6. page 950. 1968	N	Y	Publ.	N
IIA, 6.2 / 6.4	1993	Indranignsih, McSweeney, C.S., Ladds, P.W. Residues of endosulfan in the tissues of lactating goats [redacted] No.: A51447 Australian Vet. Journal. Vol. 70. pages 59 - 62. 1993	N	Y	Publ.	N
IIA, 6.2	1965	Stanovick, R. P. Determination of Thiodan I, II and Sulphate. Residues in Milk and Cow Tissues [redacted] FMC Corporation, USA. Report No.: A14210	N	N	AgrEvo	N
IIA, 6.3.1 / 6.5.4	1996a	Huth, G., Wurm, W. Endosulfan Collection of residue data from supervised trials and processing studies conducted prior to 1992 in CITRUS FRUIT Hoechst Schering AgrEvo GmbH, Development Regulatory Affairs Residue and Consumer Safety, Germany. Report No.: A57134	Y	N	AgrEvo	N
IIA, 6.3.1	1996a	Idstein H., Junker H., Klein E.H.-J. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B325 - Determination of residues of Hoe 002671 to establish a maximum residue level following 3 applications in mandarines Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report No.: A55213	Y	N	AgrEvo	Y
IIA, 6.3.1	1996a	Klein E.H.-J., Idstein H., Becker D. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B325 Determination of residues of Hoe 002671 to establish a maximum residue level following 3 applications in oranges Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report No.: A55226	Y	N	AgrEvo	Y
IIA, 6.3.1/6.5.4	1996a	Krebs, B., Buerstell, H., Huth, G.	N	N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan. Residues data summary from supervised trials and processing studies in CITRUS FRUIT Generated by: Hoechst Schering AgrEvo GmbH, Germany. Report No: A57130, related documents, A57134, A55213, A55226,				
IIA, 6.3.3 / 6.5.3	1996b	Huth, G., Wurm, W. Endosulfan Collection of residue data from supervised trials and processing studies conducted prior to 1989 POME FRUIT Hoechst Schering AgrEvo GmbH, Development Regulatory Affairs, Residue and Consumer Safety, Germany. Report No.: A57138	Y	N	AgrEvo	N
IIA, 6.3.3 / 6.5.3	1996b	Krebs, B., Buerstell, H., Huth, G. Endosulfan Residue data summary from supervised trials and processing studies in POME FRUIT Hoechst Schering AgrEvo GmbH, Development Regulatory Affairs, Residue and Consumer Safety, Germany. Report No: A57131; related documents: A55874, A54359, A57138	Y	N	AgrEvo	Y
IIA, 6.3.3 / 6.5.3	1996a	Sonder, K.-H., Idstein, H., Junker, H. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B324 Determination of Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Apples Hoechst Schering AgrEvo GmbH, Development Residues and Consumer Safety, Germany. Report No.: A54359	Y	N	AgrEvo	Y
IIA, 6.3.5	1996c	Krebs, B., Buerstell, H., Huth, G. Endosulfan. Residues data summary from supervised trials and processing studies in BERRIES AND SMALL FRUIT Hoechst Schering AgrEvo GmbH, Germany. Report No: A57132; related documents, A57139, A55225	N	N	AgrEvo	Y
IIA, 6.3.5/6.5.7	1996c	Huth, G., Wurm, W. Endosulfan Collection of residue data from supervised trials and processing studies conducted prior to 1987 in BERRIES AND SMALL FRUIT Hoechst Schering AgrEvo GmbH, Development, Regulatory Affairs, Residues and Consumer Safety, Germany. Report No.: A57139	N	N	AgrEvo	N
IIA, 6.3.6	1996	Hees M., Idstein H., Junker H.	Y	N	AgrEvo	Y

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan, emulsifiable concentrate 352 g/l, Code: Hoe 002671 00 EC33 B324 Determination of residues of Hoe 002671 to establish a maximum residue level following 2 applications in tomatoes under greenhouse conditions Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt, Germany. Report No.: A54361				
IIA, 6.3.6 / 6.5.6	1996d	Huth, G., Wurm, W. Endosulfan Collection of residue data from supervised trials and processing studies conducted prior to 1992 in FRUITING VEGETABLES Hoechst Schering AgrEvo GmbH, Development, Regulatory Affairs, Residues and Consumer Safety, Germany. Report No.: A57140	N	N	AgrEvo	N
IIA, 6.3.6	1996c	Idstein, H., Junker, H., Klein, E. H-J. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B325 Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Tomatoes under Greenhouse Conditions. Hoechst Schering AgrEvo GmbH, Development Residues and User Safety, Germany. Report No.: A54360	Y	N	AgrEvo	Y
IIA, 6.3.6 / 6.5.6	1996d	Krebs, B., Buerstell, H., Huth, G. Endosulfan Residue data summary from supervised trials and processing studies in FRUITING VEGETABLES Hoechst Schering AgrEvo GmbH, Development, Regulatory Affairs, Residues and Consumer Safety, Germany. Report No: A57133; related documents, A57140, A54363, A54362	Y	N	AgrEvo	Y
IIA, 6.3.6	1996b	Sonder, K.-H. Endosulfan, emulsifiable concentrate, 352 g/l, Code: Hoe 002671 00 EC33 B325 Determination of Residues of Hoe 002671 and its metabolites to establish a Maximum Residue Level following 3 Applications in Musk Melons (Cucumis melo) under Field Conditions, European Union (Southern Zone) 1994 Hoechst Schering AgrEvo GmbH, Development Residues and User Safety, Germany. Report No.: A54358	Y	N	AgrEvo	Y
IIA, 6.3.7	1994b	Krebs, B.	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan.Residues data summary from supervised trials in LEGUME VEGETABLES (fresh) Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53964				
IIA, 6.3.9/6.5.1	1994c	Krebs, B. Endosulfan. Residues data summary from supervised trials and processing studies in OILSEEDS Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53965	N	N	AgrEvo	N
IIA, 6.3.10	1996e	Huth, G., Wurm, W. Endosulfan Collection of residue data from supervised trials conducted prior to 1983 POTATOES Hoechst Schering AgrEvo GmbH, Development, Regulatory Affairs, Residues and Consumer Safety, Germany. Report No.: A57141	Y	N	AgrEvo	N
IIA, 6.3.10	1996d	Idstein H., Junker H., Klein E.H.-J. Endosulfan emulsifiable concentrate 352 g/l Code: Hoe 002671 00 EC33 B325 Determination of residues of Hoe 002671 to establish a maximum residue level following 2 applications in potatoes Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt, Germany. Report No.: A55214	Y	N	AgrEvo	Y
IIA, 6.3.10	1996e	Krebs, B., Buerstell, H., Huth, G. Endosulfan. Residues data summary from supervised trials in POTATOES Hoechst Schering AgrEvo GmbH, Germany. Report No: A57135, related documents, A57141, A55214	N	N	AgrEvo	Y
IIA, 6.3.11 / 6.5.8	1994d	Krebs, B. Endosulfan. Residues data summary from supervised trials and processing studies in TEA Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53967	N	N	AgrEvo	N
IIA, 6.3.12 / 6.5.2	1994e	Krebs, B.	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan. Residues data summary from supervised trials and processing studies in WHEAT Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53969				
IIA, 6.3.13	1994f	Krebs, B. Endosulfan. Residues data summary from supervised trials in MAIZE Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53970	N	N	AgrEvo	N
IIA, 6.3.14	1994g	Krebs, B. Endosulfan. Residues data summary from supervised trials in COFFEE Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53972	N	N	AgrEvo	N
IIA, 6.3.15	1994h	Krebs, B. Endosulfan. Residues data summary from supervised trials in CACAO Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53973	N	N	AgrEvo	N
IIA, 6.3.16	1995	Fuchsbichler, G. Hoe 002671 (endosulfan), Hoe 051327 (endosulfansulfate) and Hoe 051329 (endosulfandiol) Storage stability in soil Bayerische Hauptversuchsanstalt für Landwirtschaft, Germany. Report No.: A53652	Y	N	AgrEvo	Y
IIA, 6.4	1965	Stanovick, R. P. Determination of Thiodan I, II and Sulphate. Residues in Milk and Cow Tissues R & D Department, Niagara Chemical Division, FMC Corporation, USA. Report No.: A14210	N	N	AgrEvo	N
IIA, 6.5.3 / 6.3.3	1996b	Idstein, H., Junker, H., Klein, E. H-J. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B325 Residue trials in apples to establish a Maximum Residue Level. Determination of active substances and the metabolite decline following 2 applications in apples and processing to apple puree and apple juice Hoechst Schering AgrEvo GmbH, Development Residues and Consumer Safety, Germany. Report No.: A55874	Y	N	AgrEvo	Y
IIA, 6.5.5 / 6.3.4	1994a	Krebs, B.	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan. Residues data summary from supervised trials and processing studies in STONE FRUIT Hoechst Schering AgrEvo GmbH, Germany. Report No.: A53960				
IIA, 6.5.6 / 6.3.6	1996b	Sonder K.-H., Idstein H., Junker H. Endosulfan; Emulsifiable concentrate 352 g/l; Code: Hoe 002671 00 EC33 B324 - Determination of residues of Hoe 002671 to establish a maximum residue level following 2 applications in tomatoes for industrial use under field conditions Hoechst Schering AgrEvo GmbH, Residues and User Safety, Frankfurt. Report No.: A54363	Y	N	AgrEvo	Y
IIA, 6.5.6 / 6.3.6	1996c	Sonder, K.-H., Idstein, H., Junker, H. Endosulfan, emulsifiable concentrate, 352 g/l Code: Hoe 002671 00 EC33 B325 Determination of Residues of Hoe 002671 to establish a Maximum Residue Level following 2 Applications in Tomatoes for Industrial Use under Field conditions Hoechst Schering AgrEvo GmbH, Development Residues and User Safety, Germany. Report No.: A54362	Y	N	AgrEvo	Y
IIA, 6.6/01	1972	Elkins, E.R.; Farrow, R.P.; Kim, E.S. The effect of heat processing and storage on pesticide residues in spinach and apricots. J. Agr. Food Chem., vol. 20, no. 2: 286-291	N	Y	Publ.	N
	1968	FAO/WHO Evaluations of some pesticide residues in food, endosulfan. Rome, food and Agriculture Organisation of the United Nations.		Y	Publ.	N
	1984	World Health Organisation IPCS (international Programme on Chemical Safety), environmental Health Criteria, 40, endosulfan. World Health Organization, Geneva		Y	Publ.	N

B.8 Environmental fate and behaviour

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7	1985	Paterson, S. Equilibrium Models for the Initial Integration of Physical and Chemical Properties The Dow Chemical Company, USA. Report No.: A46554 Experimental Exposure From Chemicals, 1985, Vol I, Chapter 9, 217-231	N	Y	Publ.	N
IIA, 7.0/01	1982	Goebel, H., *et. al.* Properties, effects, residues and analytics of the insecticide endosulfan. Residues review, vol. 83, item VI	N	Y	Publ.	N
IIA, 7.0/02; 7.1/04		Endosulfan: Its effects on environmental quality. Report No.: 11, Item 3 and 4, 22-63, Annex I-8, 77-83 National Research Council Granada	N	Y	Publ.	N
IIA, 7.1/01		Excel Industries Ltd. Fate and behaviour in Environment	N	N	Excel	N
IIA, 7.1/02/04	1984	Who Environmental Health Criteria 40. Endosulfan World Health Organization, Geneva, Item 3.	N	Y	Publ.	N
IIA, 7.1/03; 5.6.2/01		Gorbach, S. Fate of pesticides in environmental. Terminal residues of endosulfan. Fate of pesticides in environment, vol. VI, 283-285	N	Y	Publ.	N
IIA, 7.1.1/01; 7.2.1/04	1979	Miles, J.R.W.; Moy, P. Degradation of Endosulfan and its metabolites by a mixed culture of soil microorganisms. Bull. Environm. Contam. Toxicol. 23, 013-019	N	Y	Publ.	N
IIA, 7.1.1/01; 7.1.3/01	1974	Stewart, D.K.R.; Cairns, K.G. Endosulfan persistance in soil and optake by potato tubers. J. Agr. Food Chem., vol. 22, No. 6: 984-86	N	Y	Publ.	N
IIA, 7.1.1/02	1985	Akther; Siddiqui, P.M.A. Degradation of endosulfan (technical and formulation) by soil microorganism. Kar. Iniv. J. Sc. 13(2): 191-197	N	Y	Publ.	N
IIA, 7.1.1/03	1981	Beit, O.D.E., *et. al* Factors involved in the dynamics of pesticides in soil: The effect of pesticide concentration on leachbility and adsorption. Intern. J. Environmental Studies. Vol. 16, 181-187	N	Y	Publ.	N
IIA, 7.1.1/03	1981	El Beit, I.O.D.; Wheelock, J.V.; Cotton, D.E. Pesticide – microbial interaction in the soil. Intern. J. Environmental Studies, vol. 16: 171-180	N	Y	Publ.	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.1.1/04	1977	Martens, R. Degradation of [8,9-^{14}C] Endosulfan by soil under different condicondictions. Bull. Environm. Contam. Toxicol. Vol. 17	N	Y	Publ.	N
IIA, 7.1.1/05	1976	Martens, R. Degradation of [8,9-^{14}C] Endosulfan by soil microorgasnism. Applied and environmental. Microbiology, 853-858	N	Y	Publ.	N
IIA, 7.1.1/06	1989	Hodapp, D.M.; Winterlin, W. Pesticide degradation in model soil evaporation beds. Bull. Environm. Contam. Toxicol., 43, 36-44	N	Y	Publ.	N
IIA, 7.1.1.1.1/7.1.1.2.1	1984	Gildemeister, H.; Jordan, H.J. Aerobic Soil Metabolism Study of the Insecticide Hoe 002671 (Endosulfan) Hoechst Analyt.Labor., Germany. Report No.: A29680	N	N	AgrEvo	N
IIA, 7.1.1.1.1/ 7.1.1/02	1977	Martens, R. Degradation of ENDOSULFAN-8,9-^{14}C in Soil under Different Conditions FAL, Germany. Report No.: A12501 Bulletin Environ. Contam. Toxicol. Vol. 17, No. 4. pages 438-446. 1977	N	Y	Publ.	N
IIA, 7.1.1.1.1; 7.1.1.2.1	1988	Stumpf, K.; Gildemeister, H.; Dambach, P. Hoe 002671-^{14}C, Aerobic Metabolism of Endosulfan in Soil and the Influence of Increased Microbial Biomass at 28 °C Hoechst Analyt.Labor., Germany. Report No.: A39429	Y	N	AgrEvo	N
IIA, 7.1.1.1.1; 7.1.1.2.1; 7.1.1.1	1995	Stumpf, K.; Dambach, P.; Lenz, O. Code: Hoe 002671, Hoe 052618, Hoe 052619 Metabolism of ^{14}C-labelled Endosulfan in Five Soils under Aerobic Conditions Hoechst Schering AgrEvo, Frankfurt, Germany. Report No.: A53618	Y	N	AgrEvo	Y
IIA, 7.1.1.1.2	1983	Gildemeister, H.; Jordan, H.J. Photolytic Degradation of the Insecticide Endosulfan on Soil Covered Thin Layer Plates under Simulated Sunlight Hoechst Analyt.Labor., Germany. Report No.: A25805	N	N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.1.1.1.2 / 7.1.1.2.1	1988	Gildemeister, H.; Stumpf, K.; Scheinkoenig, U. Hoe 002671-^{14}C. Anaerobic Metabolism of Endosulfan in a Sandy Loam and a Silt Loam Soil Hoechst Analyt.Labor., Germany. Report No.: A37589	Y	N	AgrEvo	N
IIA, 7.1.1.1.2	1988	Ruzo, Luis O.; McGovern, Patricia A.; Shepler, Kathryn Soil Surface Photolysis of (^{14}C)Endosulfan in Natural Sunlight FMC, United States. Report No.: A41608	Y	N	AgrEvo	N
IIA, 7.1.1.2.2	1992a	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate - (352 g/l) (Code: Hoe 002671 00 EC33 B317) Investigation of the degradation behaviour in soil under field conditions (Stufe 2 in accordance with the BBA Guideline Part IV, 4-1) Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A53554	Y	N	AgrEvo	N
IIA, 7.1.1.2.2	1992b	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B317). Investigation of the degradation behaviour in soil under field conditions Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A54025	Y	N	AgrEvo	N
IIA, 7.1.1.2.2 / IIIA, 9.1.1.2	1992	Czarnecki, J.J.; Mayasich, J.M. Terrestrial Field Dissipation of Endosulfan Applied to Cropped and Bareground Plots in California Biodynamics, United States. Report No.: A51819	Y	N	AgrEvo	N
IIA, 7.1.1.2.2	1995	Fuchsbichler, G. Hoe 002671 (endosulfan), Hoe 051327 (endosulfansulfate) and Hoe 051329 (endosulfandiol) Storage stability in soil Bayerische Hauptversuchsanstalt für Landwirtschaft, Germany. Report No.: A53652	Y	N	AgrEvo	Y
IIA, 7.1.1.2.2 / IIIA, 9.1.1.2	1989	Hacker, L.A. Endosulfan (Thiodan 3EC) field dissipation study of terrestrial uses on tomatoes in Georgia/U.S.A. Landis Assoc., United States. Report No.: A42193 Southern Agriculture Research, Inc. (field test)	Y	N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.1.1.2.2 / IIIA, 9.1.1.2	1990	Mester, Thomas C. Final Report Endosulfan (LX165-03) Terrestrial/Runoff. Study on Cotton in California with Furrow Irrigation Landis Assoc., United States. Report No.: A42997	Y	N	AgrEvo	N
IIA, 7.1.1.2.2 / IIIA, 9.1.1.2	1988	Tiirmaa, H.; Dorn, E. Endosulfan (Hoe 002671) Worldwide monitoring of Soil Dissipation Hoechst LEA, Germany; Hoechst Analyt.Labor, Germany. Report No.: A40218	N	N	AgrEvo	N
IIA, 7.1.1.2.2 / IIIA, 9.1.1.2	1993	Tiirmaa, H.; Krebs, B., Sochor, H. Degradation of endosulfan in soil after application of Thiodan 50 WP over several seasons in an apple orchard Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A53771	N	N	AgrEvo	N
IIA, 7.1.1.2.2 / IIIA, 9.1.1.1; 9.1.1.2	1986	Timme, G.; Frehse, H.; Laska, V. Statistical interpretation and graphic representation of the degradational behaviour of pesticide residues. II. Bayer AG, Germany. Report No.: A53503 Pflanzenschutz-Nachrichten Bayer. Vol. 39. pages 187-203. 1986	N	Y	Publ.	N
IIA, 7.1.2	1988a	Goerlitz, G.; Eyrich, U. Endosulfan (Hoe 002671) Adsorption / Desorption in the System Soil / Water. Part I: Hoe 052618 (= alpha-Endosulfan), Hoe 052619 (= beta-Endosulfan) Hoechst Analyt.Labor., Germany. Report No.: A37591	Y	N	AgrEvo	N
IIA, 7.1.2	1988b	Goerlitz, G.; Eyrich, U. Endosulfan (Hoe 002671) Adsorption/Desorption in the System Soil/Water part II: Metabolites of Hoe 002671: Hoe 051327 (= Endosulfan-sulfate),Hoe 051329 (= Endosulfan-diol) Hoechst Analyt.Labor., Germany. Report No.. A39353	Y	N	AgrEvo	N
IIA, 7.1.2/01	1981	Beit, O.D.E., *et. al.*	N	Y	Publ.	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Factors affecting soil residues of Dieldrin, endosulfan, y-HCH, Dimethoate and Pyrolan. Ecotoxicology and environmental safety 5, 135-160				
IIA, 7.1.3.1	1985	Gildemeister, H.; Grundschoettel, P. Hoe 002671-14 C. Leaching Study Hoechst Analyt.Labor., Germany. Report No.: A31700	Y	N	AgrEvo	N
IIA, 7.1.3.1	1975	Thier, W. Leaching behaviour of the agrochemical product Hoechst Analyt.Labor., Germany. Report No.: A49270	N	N	AgrEvo	N
IIA, 7.1.3.2	1982	Gildemeister, H.; Jordan, H.J. Leaching behaviour of the crop protection product Hoe 02671 0I AS 101 (5, 9a-^{14}C) (endosulfan) after an aging period of one half-life Hoechst Analyt.Labor., Germany. Report No.: A49273	Y	N	AgrEvo	N
IIA, 7.1.3.2	1983	Gildemeister; Remmert, U. Leaching Study of the Insecticide Hoe 002671 and its Degradates Hoechst Analyt.Labor., Germany. Report No.: A27287	N	N	AgrEvo	N
IIA, 7.1.3.2	1986	Goerlitz; Asshauer Solubility in Water Hoechst Analyt.Labor., Germany. Report No.: A34274	Y	N	AgrEvo	N
IIA, 7.1.3.2	1987	Sarafin, R.; Asshauer, J. Hoe 052619 and Hoe 052619 (alpha- und beta-Endosulfan) Solubility in Water Hoechst Analyt.Labor., Germany. Report No.: A36704	N	N	AgrEvo	N
IIA, 7.2/01	1978	Ronal, C.C.; *et. al.* Water Pesticides Monitering Journal, Vol. 12, No. 3	N	Y	Publ.	N
IIA, 7.2/02		Gorbach, S.; *et. al.* Residue analyses in the water systeem of East-Java Bull. Environ. Contam. & Toxicol. Vol 6, No. 1, 40-47	N	Y	Publ.	N
IIA, 7.2/02; 7/03; 5/02; 8.0/01	1979	Gepta, P.K.; Gupta, R.C. Phaarmacology, toxicology and degradation of endosulfan, a review. Toxicology, 13, 115-130	N	Y	Publ.	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.2.1/01	1971	Eichelberger, J.W.; Lichtenberg, J.J. Persistence of pesticides in river water. Environmental Sci. Technol., vol. 5, no. 6: 541-544	N	Y	Publ.	N
IIA, 7.2.1/02	1992	Armbrust, K.; Crosby, D.G. The degradation of endosulfan, chlorothanil and dichlorethan in seawater. 203 Rd. American Chemical Society National meeting, California. Vol. 203 (1-3) 70	N	Y	Publ.	N
IIA, 7.2.1/02; 7.2.2/01	1971	Greve, P.A. Persistence of endosulfan in surface water. Meded. Fac. Landbouwwet. Rijksuniv. Gent, vol. 36: 439-447	N	Y	Publ.	N
IIA, 7.2.1/03	1974	El Zorgani, G.A.; Omer, M.E.H. Metabolism of endosulfan isomers by Asperguillus niger. Bul. Environmental Cont. & Tox., vol 12: 182-182	N	Y	Publ.	N
IIA, 7.2.1.1	1982	Goerlitz, G.; Kloeckner, Ch. Hydrolysis of Hoe 02671 (Endosulfan) Hoechst Analyt.Labor., Germany. Report No.: A31069	N	N	AgrEvo	N
IIA, 7.2.1.1	1984	Goerlitz, G. Hoe 002671, Endosulfan. Material Balance of the Hydrolysis Reaction - Addendum to Report (B)90/82 Hoechst Analyt.Labor., Germany. Report No.: A28825	N	N	AgrEvo	N
IIA, 7.2.1.1	1989	Goerlitz, G.; Rutz, U. Hoe 002671 Abiotic hydrolysis of the two isomers Hoe 052618 (alpha-Endosulfan) Hoe 052619 (beta-Endosulfan) as a function of pH Hoechst AG, Analytisches Laboratorium, Germany. Report No.: A40003	Y	N	AgrEvo	N
IIA, 7.2.1.2	1982	Dureja, P.; Mukerjee, S.K. Photoinduced Reactions: Part IV. Studies on Photochemical Fate of 6,7,8,9,10-Hexachloro-1,5,5a,6,9,9a-hexahydro--6,9-methano-2,4,3-benzo(e)dioxathiepin-3-oxide (Endosulphan), an Important-Insecticide Div. of Agric. Chemicals, IARI, India. Report No.: A27138 Indian J. of Chem. Vol. 21B, May. pages 411-413. 1982.	N	Y	Publ.	N
IIA, 7.2.1.2	1973	Schumacher, H.G.; Parlar, H.; Klein, W.; Korte, F. Photochemische Reaktionen von Endosulfan	N	Y	Publ.	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Univ.Bonn. Report No.: A25698 Chemosphere. Vol. 2. pages 65 - 68. 1973				
IIA, 7.2.1.2	1991	Stumpf, K.; Jordan, H.J. Hoe 052618-^{14}C and Hoe 052619-^{14}C (alpha- and beta-Endosulfan), Photodegradation in Acetate Buffer Solution and in Surface Water Hoechst AG, Produktentwicklung Oekologie 1, Germany. Report. No.: A49585	Y	N	AgrEvo	N
IIA, 7.2.1.2	1988	Stumpf, K.; Schink, C. Hoe 002671-^{14}C. Photodegradation of alpha-Endosulfan (Hoe 052618) and beta-Endosulfan (Hoe 052619) in Water Hoechst Analyt.Labor., Germany. Report No.: A37588	Y	N	AgrEvo	N
IIA, 7.2.1.3.1 / IIIA, 9.2.2	1990a	Stumpf, K. Hoe 002671, endosulfan, trade name "Thiodan". Potential degradability in water Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A45100	N	N	AgrEvo	N
IIA, 7.2.1.3.2	1989	Cornaby, B.W.; Maciorowski, A.F.; Griffith, M.G. et al. Assessment of the Fate and Effects of Endosulfan on Aquatic Ecosystems Adjacent to Agricultural Fields Planted with Tomatoes (Pont study) Battelle, Columbus Laboratory, USA; Hickey´s Agri-Services Inc., USA. Report No.: A41298	Y	N	AgrEvo	N
IIA, 7.2.1.3.2/ IIA, 7.2.1/01	1989	Cotham, William E.; Bidleman, Terry F. Degradation of Malathion, Endosulfan, and Fenvalerate in Seawater and Seawater/Sediment Microcosms Univ.South Carolina, United States. Report No.: A41218 J. Agric. Food Chem. Vol. 37. pages 824-828. 1989	N	Y	Publ.	N
IIA, 7.2.1.3.2 / IIIA, 9.2.3	1985	Gildemeister, H. Hoe 002671-14-C Aerobic Aquatic Metabolism Study with the Insecticide Endosulfan Hoechst Analyt.Labor., Germany. Report No.: A31182	Y	N	AgrEvo	N
IIA, 7.2.1.3.2 / IIIA, 9.2.3	1990b	Stumpf, K. Comments Regarding the Dutch Hazard Assessment of Endosulfan Concerning the Bioavailability in Water/Sediment Systems Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A44231	N	N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.2.2	1988	Altshuller, A. P. Ambient air hydroxyl radical concentrations: Measurements and model predictions USEPA, Research Triangle Park, USA. Report No.: A47124 JAPCA; 39; 704 - 708; 1989	N	Y	Publ.	N
IIA, 7.2.2	1987a	Atkinson, R. Estimation of gas-phase hydroxyl radical rate constants for organic chemicals University of California, USA. Report No.: A47123 Environm. Toxicology and Chemistry; 7; 435 - 442; 1988	N	Y	Publ.	N
IIA, 7.2.2	1987b	Atkinson, R. A Structure-Activity Relationship for the Estimation of Rate Constants for the Gas-Phase Reactions of OH Radicals with Organic Compounds Univ. of California, USA. Report No.: A57325 Intern. Journal of Chem. Kinetics; 1987; 19; 799 - 828	N	Y	Publ.	N
IIA, 7.2.2	1990	Bidleman, T. F.; Patton, G. W.; Hinckley, D. A.; et al. Chlorinated Pesticides and Polychlorinated Biphenyls in the Atmosphere of the Canadian Arctic Report file No: A57282 Lewis Publishers, Inc.; 1990; 347 - 372üöä	N	Y	Publ.	N
IIA, 7.2.2	1992	Bidleman, T. F., Cotham, W. E., Addison, R. F., {Abs}Zinck, M. E. Organic Contaminants in the Northwest Atlantic Atmosphere at Sable Island, Nova Scotia, 1988-89 University of South Carolina, USA, and Bedford Institute of Oceanography; Canada. Report No.: A57283 Chemosphere; 1992; 24; 1389 - 1412	N	Y	Publ.	N
IIA, 7.2.2 / IIIA, 9.3	1987	Goerlitz, G. Hoe 051327, vapour pressure Hoechst Analyt.Labor., Germany. Report No.: A38805 unpublishedüöä	N	Y	Publ.	N
IIA, 7.2.2	1984	Hewitt, C. N.; Harrison, R. M. Tropospheric concentrations of the hydroxyl radical - A review University of Lancaster, UK. Report No.: A47125 Atmosphere Environment; 1985; 19; 545 - 554	N	Y	Publ.	N
IIA, 7.2.2	1991	Hoff, R. M.; Muir, D. C. G.; Grift, N. P. Annual Cycle of Polychlorinated Biphenyls and Organohalogen Pesticides in Air in Southern Ontario. 1. Air Concentration data	N	Y	Publ.	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Atmospheric Environment Service and {Abs}Freshwater Inst., Canada. Report No.: A57281 Environm. Sci. Technology; {Abs}1992; 26; 2; 266 - 175				
IIA, 7.2.2	1993	Indranignsih, McSweeney, C.S., Ladds, P.W. Residues of endosulfan in the tissues of lactating goats University of North Queensland, Australia. Report No.: A51447 Australian Vet. Journal. Vol. 70. pages 59 - 62. 1993	N	Y	Publ.	N
IIA, 7.2.2	1992a	Kloepffer, W. Determination of the kOH Rate Constant of alpha-Endosulfan According to the Freon 113 Method C.A.U. GmbH, Germany. Report No.: A49537	Y	N	AgrEvo	N
IIA, 7.2.2	1992b	Kloepffer, W. Determination of the kOH Rate Constant of beta-Endosulfan According to the Freon 113 Method C.A.U. GmbH, Germany. Report No.: A49538	Y	N	AgrEvo	N
IIA, 7.2.2	1992c	Kloepffer, W. Determination of the kOH Rate Constant of Endosulfansulfate According to the Freon 113 Method C.A.U. GmbH, Germany. Report No.: A49536	Y	N	AgrEvo	N
IIA, 7.2.2	1989	Leist, K.-H. Amendment to Report No. HST 289/881067 (Doc No. A40440) Endosulfan, active ingredient technical (Code: Hoe 002671 0I ZD97 0003) combined chronic toxicity / carcinogenicity study (104-week feeding in rats) Residue Determination Hoechst AG, Pharma Research, Toxicology and Pathology, Germany. Report No.: A41265	Y	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1991	Palm, W.-U.; Zetzsch, C. Estimation of the rate constants for the reaction of alpha- and beta-endosulfan with 0H radicals by the incremental procedure of Atkinson Fraunhofer-Inst., Germany. Report No.: A48681	N	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1988	Parlar, H. Photochemical Degradability of alpha-, beta-Endosulfan and Endosulfan sulfate in Air Generated by: Univ.Kassel, Germany. Report No.: A39963	N	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1992a	Ruedel, H.	Y	N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Testing for volatility of ^{14}C-endosulfan (formulated as the product Thiodan 35EC): Volatilisation from soil Fraunhofer-Inst., Germany. Report No.: A56571				
IIA, 7.2.2 / IIIA, 9.3	1992b	Ruedel, H. Testing for volatility of 14 C-endosulfan (formulated as the product Thiodan 35EC): Volatilisation from plant surfaces Fraunhofer-Inst., Germany. Report No.: A56887	Y	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1992c	Ruedel, H. Testing for volatility of ^{14}C-endosulfan sulfate (formulated as the product Thiodan 35EC): Volatilisation from plant surfaces Fraunhofer-Inst. fuer Umweltchemie, Germany. Report No.: A57248	Y	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1992d	Ruedel, H. Testing for volatility of ^{14}C-endosulfan sulfate (formulated as the product thiodan 35EC): Volatilisation from soil Fraunhofer-Inst. fuer Umweltchemie, Germany. Report No.: A57247	Y	N	AgrEvo	N
IIA, 7.2.2 / IIIA, 9.3	1987	Sarafin, R. Hoe 002671 (Endosulfan), Hoe 052618 (alpha-Endosulfan), and Hoe 052619 (beta-Endosulfan) - Vapour Pressures Hoechst Analyt.Labor., Germany. Report No.: A36734	N	N	AgrEvo	N
IIA, 7.2.2	1992	Scharf, Juliane Untersuchungen zur Verteilung und zum Verhalten von Pflanzenschutzmitteln (PSM) in der Atmosphaere Univ.Darmstadt, Germany. Report No.: A49836 Thesis for doctorate. Technische Hochschule Darmstadt. 1992	N	Y	Publ.	N
IIA, 7.2.2	1995	Simonich, S. L., Hites, R. A. Global Distribution of Persistent Organochlorine Compounds Indiana University; USA. Report No.: A57280 Science; 1995; 269; 1851 - 1854	N	Y	Publ.	N
IIA, 7.2.2	1990	Weller, O. Henry-constants of: Hoe 052618 (alpha-Endosulfan), Hoe 052619 (beta-Endosulfan) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A43544		N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 7.2.2	1992	Zetzsch, C. Photochemisch-oxidativer Abbau von alpha-Endosulfan in der Gasphase Fraunhofer-Inst., Germany. Report No.: A48146	Y	N	AgrEvo	N
IIA, 7.2.2/01	1992	Ferrando, M.O., *et. al.* Persistence of some Pesticides in the Aquatic Environment. Bull. Environmental Contam. Toxicol. 48, 747-755	N	Y	Publ.	N
IIIA, 9.1.1.2	1992b	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B317). Investigation of the degradation behaviour in soil under field conditions Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A54025	Y	N	AgrEvo	N
IIIA, 9.1.1.2	1992a	Baedelt, H.; Idstein, H.; Krebs, B. Endosulfan - emulsifiable concentrate - (352 g/l) (Code: Hoe 002671 00 EC33 B317) Investigation of the degradation behaviour in soil under field conditions (Stufe 2 in accordance with the BBA Guideline Part IV, 4-1) Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A5335554	Y	N	AgrEvo	N
IIIA, 9.1.4	1995	Ganzelmeier, H.; Rautmann, D. et al. Studies on the spray drift of plant protection products - Results of a test programm carried out throughout the Federal Republic of Germany, Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft, Berlin-Dahlem, Heft 305, Backwell Wissenschafts-Verlag GmbH Berlin/Wien Landesanstalt fuer Pflanzenschutz, Stuttgart. Fraunhofer Institut fuer Umweltchemie und Oekotoxikologie, Schmallenberg. Report No.: A56850	N	Y	Publ.	N
IIIA, 9.2.2 / 9.2.3	1989	Cornaby, B.W.; Maciorowski, A.F.; Griffith, M.G. et al. Assessment of the Fate and Effects of Endosulfan on Aquatic Ecosystems Adjacent to Agricultural Fields Planted with Tomatoes (Pont study)	Y	N	AgrEvo	N

Annex IIA, Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Battelle, Columbus Laboratory, USA; Hickey´s Agri-Services Inc., USA. Report No. A 41298				
	1984	World Health Organisation IPCS (International Programme on Chemical Safety), environmental Health Criteria, 40, endosulfan. World Health Organisation, Geneva		Y	Publ.	N
	1994	British Crop Protection Council The pesticide Manual, incorporing the agrochemicals handbook, 10th edition, page 388-390		Y	Publ.	N

B.9 Ecotoxicology

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 8.0/01; 5/02; 7/03	1979	Gupta, P.K.; Gupta, R.C. Pharmacology, toxicology and degradation of endosulfan, a review. Toxicology, 13, 115-130	N	Y	Publ.	N
IIA, 8.1.1	1983a	Roberts, Nicholas L.; Phillips, Christine N.K. The Acute Oral Toxicity (LD 50) of Endosulfan-technical (Code: Hoe 002671 0I ZD97 0003) to the Bobwhite Quail [redacted] Report No.: A27035	N	Y	Publ.	N
IIA, 8.1.1	1983b	Roberts, Nicholas L.; Phillips, Christine N.K. The Acute Oral Toxicity (LD 50) of Endosulfan-technical (Code: Hoe 002671 0I ZD97 0003) to the Mallard Duck [redacted] Report No.:	Y	N	AgrEvo	N
IIA, 8.1.1/01		Acute oral (MLD), Pigeon.	N	N	Excel	N
IIA, 8.1.1/02		Excel Industries Ltd. Protocol for acute oral (MLD), Pigeon and chicken.	N	N	Excel	N
IIA, 8.1.1/02	1972	Hudson, R.H.; Tucker, R.K.; Haegele, M.A. Effect on age on sensivitie: Acute oral toxicity of 14 pesticides to Mallard Ducks of several ages. Toxicol. Appl. Pharmacol., 22: 556-561				
IIA, 8.1.1/03	1972	Schafer, E.W. The acute oral toxicity of 369 pesticidal pharmaceutical and other chemicals to wild birds. Toxicology and applied Pharmacology, 21, 315-330	N	Y	Publ.	N
IIA, 8.1.2	1975	Hill, Elwood F.; Heath, Robert G.; Spann, James W.; Williams, Joseph D. Lethal dietary toxicities of environmental pollutants to birds U.S.Dep. of the Interior; Fish and Wildlife Service, USA. Report No.: A26820 U.S. Fish and Wildlife Service. Special Scientific Report.. Wildlife No. 191. 1975	N	Y	Publ.	N
IIA, 8.1.3	1987a	Beavers, Joann B.; Frank, Peter; Jaber, Mark J.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Endosulfan Technical Substance (Code: Hoe 002671 0I ZD95 0005): A One-Generation Reproduction Study with the Mallard (Anas platyrhynchos) [redacted] A36310				
IIA, 8.1.3	1987b	Beavers, Joann B.; Frank, Peter; Jaber, Mark J. Endosulfan Technical Substance (Code: Hoe 002671 0I ZD95 0005): A One-Generation Reproduction Study with the Bobwhite (Colinus virginianus) [redacted] A36311	Y	N	AgrEvo	N
IIA, 8.1.3	1984	Roberts, Nicholas L.; Phillips, Christine N. K. The Effects of Dietary Inclusion of Endosulfan - Technical (Code: Hoe 002671 0I ZD97 0003) on Reproduction in the Bobwhite Quail [redacted] Report No.: A29752	Y	N	AgrEvo	N
IIA, 8.1.3	1985	Roberts, N.L.; Anderson, A.; Chanter, D.O. The Effects of Dietary Inclusion of Endosulfan - Technical (Code: Hoe 002671 OI ZD97 0003) on Reproduction in the Mallard Duck [redacted] Report No.: A30678	Y	N	AgrEvo	N
IIA, 8.1.3; 8.3	1973	Scholz; Weigand Thiodan - ENDOSULFAN Op.2/387 97.1 % active ingredient. 30-Day Feeding Test in the Quail [redacted] Germany. Report No.: A18268	N	N	AgrEvo	N
IIA, 8.1.4	1995	Ebert, E.; Leist, K.-H. Endosulfan - substance technical (Code: Hoe 002671) Compilation of invalid studies and literature on experimental avian toxicity studies AgrEvo, A Company of Hoechst and Schering, [redacted] Report No.:	N	N	AgrEvo	N
IIA, 8.2/01; 8.2.4/01; 8.3/01	1984	Who Environmental Health Criteria 40, endosulfan, Worl Health Organization, Item 7.1-7.4	N	Y	Publ.	N
IIA, 8.2/02		Excel industries Ltd.	N	N	Excel	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Protocol for toxicity to fresh water fish				
IIA, 8.2.1 / IIIA, 10.2.1.1	1981	Devi, A.P.; Rato, D.M.R.; Tilak, K.S.; Murty,A.S. Relative Toxicity of the Technical Grade Material, Isomers, and Formulations of Endosulfan to the Fish Channa punctata [redacted] A22297 Bull. Environm. Toxicol. Vol. 27. pages 239-243. 1981	N	Y	Publ.	N
IIA, 8.2.1	1989	Ferrando,M.D.;and Andreu-Moliner, E. Effects of temperature, exposure time and other waterparameters on the acute toxicity of endosulfan to european eel, Anguilla anguilla [redacted] A42966 J. Environ. Science Health. Vol. B24, No. 3. pages 219-224. 1989	N	Y	Publ.	N
IIA, 8.2.1	1991	Ferrando, M.D.; Sancho, E.; Andreu-Moliner, E. Comparative Acute Toxicities of Selected Pesticides to Anguilla anguilla [redacted] A47633 J. Environm. Sci. Health. Vol. B26, No. 5/6. pages 491-498. 1991	N	Y	Publ.	N
IIA, 8.2.1	1983	Fischer, R. The Effect of Hoe 002671 0I ZD96 0002 (Endosulfan, Active Ingredient 95,5 %) on Salmo gairdneri (Rainbow Trout) in a Static Test [redacted] A26006	N	N	AgrEvo	N
IIA, 8.2.1	1991	Fujimura, Robert; Finlayson, Brian; Chapman, Gary Evaluation of Acute and Chronic Toxicity Tests with Larval Striped Bass [redacted] A47515 Aquat. Toxicol. and Risk Assessment. 1991. Vol 14. 193-211	N	Y	Publ.	N
IIA, 8.2.1/4/9	1981	Gopal, K.; Khanna, R.N.; Anand, M.; Gupta, G.S.D. The Acute Toxicity of Endosulfan to Fresh-Water Organisms Industrial Toxicology Research Centre, India. Report No.: A23187 Toxicology Letters. Vol. 7. pages 453 - 456. 1981	N	Y	Publ.	N
IIA, 8.2.1 / IIIA, 10.2.1.1	1986	Haider, S.; Imbaraj, R. Moses	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Relative Toxicity of Technical Material and Commercial Formulation of Malathion and Endosulfan to a Freshwater Fish, Channa punctata (Bloch) [redacted] A36292 Ecotoxic. and Environm. Safety. Vol. 11. pages 347-351. 1986				
IIA, 8.2.1	1986	Herzberg, A.M. Accumulation and Toxicity of Endosulfan in the Common Carp (Cyprinus carpio) and Saint Peters Fish (Oreochromis aureus) [redacted] No.: A36295 Bamidgeh. Vol. 38, Part 4. pages 99 - 107. 1986	N	Y	Publ.	N
IIA, 8.2.1	1993b	Jonsson, Claudio M.; Toledo, Maria Cecilia F. Acute Toxicity of Endosulfan to the Fish Hyphessobrycon bifasciatus and Brachydanio rerio [redacted] A51153 Arch. Environ. Contam. Toxicology. Vol. 24. pages 151-155. 1993	N	Y	Publ.	N
IIA, 8.2.1 / IIIA, 10.2.1.1	1980	Joshi, A.G.; Rege, M.S. Acute Toxicity of Some Pesticides & a Few Inorganic Salts to the Mosquito Fish Gambusia affinis (Baird & Girard) [redacted] A29254 Ind. J. Exp. Biol. Vol.1, No. 4. pages 435-437. 1980	N	Y	Publ.	N
IIA, 8.2.1	1977a	Knauf Effect of Hoe 02671 0 I AT202 (Active Ingredient) on Idus Melanotus (Golden Orfe) [redacted] Report No.: A16732	N	N	AgrEvo	N
IIA, 8.2.1	1978	Knauf Effect of Hoe 002671 0 I AT 202 (Active Ingredient) on Cyprinus carpio (Carp) [redacted] Germany. Report No.: A31512	N	N	AgrEvo	N
IIA, 8.2.1; 8.2.4; 8.2.2.3; 8.2.5	1976	Maceck, Kenneth J.; Lindberg, Mark A.; Sauter, Scott; Buxton, Kenneth S.; Costa, Patricia A.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Toxicity of Four Pesticides to Water Fleas and Fathead Minnows. Acute and Chronic Toxicity of Acrolein, Heptachlor, Endosulfan, and Trifluralin to the Water Flea (Daphnia magna) and the Fathead Minnow (Pimephales promelas). [redacted]: A27951 National Technical Information Service, Springfield, Virginia 22161, USA				
IIA, 8.2.1	1969	Macek, Kenneth J.; Hutchinson, Curt; Cope, Oliver B. The Effects of Temperature on the Susceptibility of Bluegills and Rainbow Trout to Selected Pesticides [redacted] [redacted] No.: A23688 Bull. Environm. Contam. Toxicol. Vol. 4. pages 174-183. 1969	N	Y	Publ.	N
IIA, 8.2.1	1980	Mohanaranga Rao, D.; Murty, A.S. Toxicity, Biotransformation & Elimination of Endosulfan in Anabas testudineus (Bloch) Univ.Nagarjuna, India. Report No.: A29255 Indian Journal of Exp. Biol. Vol. 18. pages 664-666. 1980	N	Y	Publ.	N
IIA, 8.2.1/4	1983	Nebeker, Alan V.; McCrady, K.; Mshar, Roger; McAuliffe, Chris K. Relative Sensitivity of Daphnia magna, Rainbow Trout and Fathead Minnows to Endosulfan. [redacted] A27380 Environm. Toxicology and Chem. Vol. 2. pages 69-72. 1983	N	Y	Publ.	N
IIA, 8.2.1/3/4/8; 8.3.5	1971	Oeser, H.; Gorbach, S.; Knauf, W. Endosulfane and the Environment Hoechst AG, Germany. Report No.: A14255 Giornate Fitopatologiche. Udine, Italy, 11-14 maggio. 1971	N	Y	Publ.	N
IIA, 8.2.1	1966	Pickering, Quentin H.; Henderson, Crosswell The Acute Toxicity of Some Pesticides to Fish [redacted] A14124 The Ohio Journal of Science. Vol. 66, No. 5. pages 508-513. 1966	N	Y	Publ.	N
IIA, 8.2.1 / IIIA, 10.2.1.1	1980	Rao, D.M.; Devi, A.P.; Murty, A.S.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Relative Toxicity of Endosulfan, its Isomers, and Formulated Products to the Freshwater Fish Labeo rohita [redacted]: A22299 J. Toxicol. Environm. Health. Vol. 6. pages 825-834. 1980				
IIA, 8.2.1	1982	Rao, D.M.; Murty, A.S. Toxicity and Metabolism of Endosulfan in Three Freshwater Catfishes [redacted] A26105 Environm.Pollution. 1982. (Series 4). 27. 223-231	N	Y	Publ.	N
IIA, 8.2.1 / IIIA, 10.2.1.1	1989	Rao, D.M.R. Studies on the relative Toxicity and metabolism of Endosulfan to the Indian Major Carp Catla catla with Special Reference to Some Biochemical Changes Induced by the Pesticide [redacted] A43108 Pestic. Biochem. Physiol. Vol. 33. pages 220-229. 1989	N	Y	Publ.	N
IIA, 8.2.1/4	1970	Schoettger, Richard A. Investigations in Fish Control. Toxicology of Thiodan in Several Fish and Aquatic Invertebrates [redacted]: A14253	N	N	AgrEvo	N
IIA, 8.2.1	1982	Singh, B.B.; Narein, A.S. Acute Toxicity of Thiodan to Catfish (Heteropneustes fossilis) [redacted]: A23196 Bull. Environm. Contam. Toxicol. Vol. 28. pages. 122-127. 1982	N	Y	Publ.	N
IIA, 8.2.1	1982	Singh, Narendra N.; Srivastava, Anil K. Toxicity of a Mixture of Aldrin and Formothion and Other Organophosphorus, Organochlorine and Carbamate Pesticides to the Indian catfish, Heteropneustes fossilis [redacted] A32901 Comp. Physiol. Ecol. Vol. 7, No. 2. pages 115 - 118. 1982	N	Y	Publ.	N
IIA, 8.2.1	1984	Singh, Suneeta; Sahai, S. Toxicity of Some Pesticide to Two Fresh Water Teleosts [redacted]A36683 J. Environm. Biol. Vol. 5, No. 4. pages 255-259. 1984	N	Y	Publ.	N
IIA, 8.2.1	1992	Sunderam, R.I.M.; Cheng, D.M.H.; Thompson, G.B.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Toxicity of Endosulfan to Native and Introduced Fish in Australia [redacted] A49782 Environm. Toxiciol. Chem. Vol. 11. pages 1469-1476. 1992				
IIA, 8.2.1/01; IIIA, 10.2.1		Dikshith, T.S.S. Report on TLm values of endosulfan technical (Excel Industries) in fresh water fish Channa punctatus (Girai)	Y	N	Excel	N
IIA, 8.2.1/02	1984	Ramakrishna, V. Toxicity study of endosulfan (technical) in fresh water fish. Excel industries Ltd. [redacted]	N	N	Excel	N
IIA, 8.2.1/03; 8.2.2/01	1982	Sastry, K.V.; Siddiqui, A.A. Effect of endosulfan and quinalphos on intestinal absorption of glucose in the fresh water murrel, Channa Punctatus. Toxicology Letters 12, 289-293	N	Y	Publ.	N
IIA, 8.2.1/04	1992	Tripathi, G.; Shukla, S.P. Toxicity of endosulfan and Methyl parathionto to a freshwater catfish. Naturalia, Sao Paulo, 17, 9-15	N	Y	Publ.	N
IIA, 8.2.2	1981	Joshi, H.C., *et. al*. Chronic toxicity study of some pesticides for estimating matc for two fresh water fishes. J. Envirn. Biol., 2 (1) 43-57	N	Y	Publ.	N
IIA, 8.2.2/02	1988	Sharma, R.M. Effect of endosulfan on Adenosine Triphosphatase (ATPase) activity in liver, kidney and muscles of *Channa gachua.* Bull. Environm. Contam. Toxicol. Vol. 41: 317-323	N	Y	Publ.	N
IIA, 8.2.2/03	1990	Sharma, R.M. Effect of endosulfan on acid and alkaline phosphatase activity in liver, kidney and muscles of *Channa gachua* Bull. Environm. Contam. Toxicol. Vol. 44: 443-448	N	Y	Publ.	N
IIA, 8.2.2.1; 8.2.3	1991	Hansen, David J.; Cripe, Geraldine M.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Interlaboratory Comparison of the Early Life-Stage Toxicity Test Using Sheepshead Minnows (Cyprinodon variegatus) [redacted] A47514 Aquatic Toxicol. and Risk Assessment, ASTM, Mayes/Barron. pages 354-375. 1991				
IIA, 8.2.2.2	1991	Knacker, Th.; Zietz, E.; Schallnass, H.; Diehl, Th. A Study of the Prolonged Toxicity to Fish (Oncorhynchus mykiss) of Endosulfan - substance technical (Hoe 002671 00 ZD98 0005) according to the OECD Guidelines for Testing of Chemicals [redacted] A46835	Y	N	AgrEvo	N
IIA, 8.2.3 / IIIA, 10.2.2.2	1989	Cornaby, B.W.; Maciorowski, A.F.; Griffith, M.G. et al. Assessment of the Fate and Effects of Endosulfan on Aquatic Ecosystems Adjacent to Agricultural Fields Planted with Tomatoes (Pont study) Battelle, Columbus Laboratory, USA; Hickey´s Agri-Services Inc., USA. Repot no.: A41298	Y	N	AgrEvo	N
IIA, 8.2.3	1977	Ernst, W. Determination of the Bioconcentration Potential of Marine Organisms. A Steady State Approach Institut fuer Meeresforschung, Germany.Report No.: A25849 Chemosphere. No.11. pages 731 - 740. 1977	N	Y	Publ.	N
IIA, 8.2.3 / IIIA, 10.2.2.2	1992	Heusel, R. Extended summary and evaluation of the farm pond study on endosulfan (Hoe 002671) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A48944	N	N	AgrEvo	N
IIA, 8.2.3	1993a	Jonsson, Claudio M.; Toledo, Maria Cecilia F. Bioaccumulation and Elimination of Endosulfan in the Fish Yellow Tetra (Hyphessobrycon bifasciatus) [redacted] Brazil. Report No.: A49919 Bull.Environ.Toxicol. 1993. 50. 572-577	N	Y	Publ.	N
IIA, 8.2.3	1977	Schimmel, S.C.; Patrick, Jr., J.M.; Wilson, Jr., A.J. Acute Toxicity to and Bioconcentration of endosulfan by Estuarine Animals	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		EPA, Environmental Research Laboratory, USA. Report No.: A22871 Aquatic Toxicology and Hazard Evaluation. ASTM STP 634. pages 241-252. 1977				
IIA, 8.2.3	1992	Toledo, M. Cecilia; Jonsson, Claudio M. Bioaccumulation and Elimination of Endosulfan in Zebra Fish (Brachydanio rerio) [redacted]: A50529 Pestic. Sci. 1992. 36. 207-211	N	Y	Publ.	N
IIA, 8.2.3/01	1984	Kulshrestha, S.K.; Ahora, N. Impairments induced by sublethal doses of two pesticides in the ovaries of a freshwater teleost *Channa striatus* Bloch. Toxicol. Letters 20: 93-98	N N	Y Y	Publ. Publ.	N N
IIA, 8.2.4	1992	Fernandez-Casalderry, A.; Ferrando, M.D.; Andreu-Moliner, E. Acute Toxicity of Several Pesticides to Rotifer (Brachionus calyciflorus) [redacted] A47492 Bull. Environ. Toxicol. Vol. 48. pages 14-17. 1992	N	Y	Publ.	N
IIA, 8.2.4	1977b	Knauf Hoe 02671 0 I AT202 (Active Ingredient) Effect on Daphnia Magna (Water Flea) Hoechst Pfl.Fo.Biol., Germany. Report No.:	N	N	AgrEvo	N
IIA, 8.2.4	1989	Krishnan, M.; Chockalingam, S. Toxic and Sublethal Effects of Endosulfan and Carbaryl on Growth and Egg Production of Moina micrura Kurz (Cladocera: Moinidae) Thiagarajar College, India. Reort No.: A43063 Environm. Pollution. Vol. 6. pages 319-326. 1989	N	Y	Publ.	N
IIA, 8.2.4	1960	Luedemann, Dietrich; Neumann, Horst Versuche ueber die akute toxische Wirkung neuzeitlicher Kontaktinsektizide auf Suesswassertiere (2.Beitrag) BGA, Germany. Report No.: A14242 Publication of the Bundesgesundheits{Abs}amt, Berlin-Dahlem, Germany	N	Y	Publ.	N
IIA, 8.2.4	1987	Naidu, K. Rajendra Prasad; Devi, G. Subhadra; Naidu, B.P. Toxicity evaluation of endosulfan and its impact on the organic composition of different age groups of juvenile crabs S.V.Univ.,Tirupati, Goa. Report No.: A43105	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Nat. Acad. Letters. Vol.10, No. 7. pages 251-254. 1987				
IIA, 8.2.4	1981	Nair, G.A. Toxic Effects of Certain Biocides on a Fresh Water Mite, Hydrachna trilobata Viets (Arachnida: Hydrachnoidea: Hydrachnidae) Univ.Kerala, India. Report No.: A26111 J. Environm. Biol. Vol. 2, No. 2. pages 91-96. 1981	N	Y	Publ.	N
IIA, 8.2.4/5	1982	Nebeker, A.V. Evaluation of a Daphnia magna, Renewal Life-cycle Test Method with Silver and Endosulfan EPA, United States. 4 contract and 2 U.S.EPA laboratories. Report No.: A25040 Water Res. 1982. Vol. 16. pages 739-744	N	Y	Publ.	N
IIA, 8.2.4	1992	Reddy, D.C.; Kalarani, V.; Davies, Ronald W. Influence of Thermal Prehistory on Endosulfan Susceptibility of Oziotelphusa senex senex, a Freshwater Crab University of Calgary, Canada. Report No.: A47495 Bull. Environ. Contam. Toxicol. Vol. 48. pages 1-6. 1992	N	Y	Publ.	N
IIA, 8.2.4	1968	Sanders, Herman O.; Cope, Oliver B. The Relative Toxicities of Several Pesticides to Naiads of Three Species of Stoneflies Fish-Pestic.Res.Lab., USA. Report No.: A25918 Limnology and Oceanography. Vol. 13, No. 1. pages 112-117. 1968	N	Y	Publ.	N
IIA, 8.2.4	1969	Sanders, Herman O. Toxicity of Pesticides to the Crustacean Gammarus lacustris Fish-Pesticide Research Labor., USA. Report No.: A26101 Technical Papers of the Bureau of Sport Fisheries and Wildlife	N	Y	Publ.	N
IIA, 8.2.4	1972	Sanders, Herman O. Toxicity of Some Insecticide to Four Species of Malacostracan Crustaceans U.S.Dep.Inter, USA. Report No.: A28837 Techn. Paper U.S. Bureau Sport Fish. Wildlife. No. 66. pages 1-19. 1972	N	Y	Publ.	N
IIA, 8.2.4	1976	Santharam, K.P.; Thayumanavan, B.; Krishnaswamy,S. Toxicity of Some Insecticides to Daphnia carinata King, an Important Link in the Food Chain in the Freshwater Ecosystems Univ.Madurai, India. Report No.: A25919 Indian J. Ecol. Vol. 3, No. 1. pages 70-73. 1976	N	Y	Publ.	N
IIA, 8.2.4	1986	Serrano, L.; Miracle, M. R.; Serra, M.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Differential Responses of Brachionus plicatilis (Rotifera) Ecotypes to various Insecticides. University of Valencia, Spain. Report No.: A53745 J. Environm. Biol. Vol. 7, No. 4. pages 259-275. 1986				
IIA, 8.2.4	1987	Tandon, R.S.; Lal, Rup; Narayana Rao, V.V.S. Effects of malathion and endosulfan on the growth of Paramecium aurelia Univ.Kumaun, India. Report No.: A43103 Acta Protozoologica. Vol. 6, No. 4. pages 319-326. 1987	N	Y	Publ.	N
IIA, 8.2.4	1991	Yadav, B.S.; Sarojini, R.; Nagabhushanam, R. Toxicity of Pesticide Endosulfan on Freshwater Prawn, Caridina WEBERI Marathwada University, India. Report No.: A47589 J. Advanced Zoology. Vol. 12, No. 1. pages 19-22. 1991	N	Y	Publ.	N
IIA, 8.2.4/01	1991	Rajendran, N.; Venugopalan, V.K. Bioconcentration of endosulfan in different body tissues of stuarine organism under sublethal exposure. Bull. Environ. Contam. Toxicol. Vol. 46: 151-158	N	Y	Publ.	N
IIA, 8.2.5	1991	Heusel, R. Endosulfan - substance, technical (Hoe 002671 00 ZD98 0005). Effect to Daphnia magna (Waterflea) in a 21-day Reproduction Test (method OECD) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A46561	Y	N	AgrEvo	N
IIA, 8.2.6	1985	Fischer, R. The Effect of Endosulfan, Substance, Technical Identification Code: Hoe 002671 0I ZD95 0005 to Scenedesmus subspicatus (Green alga) in a Growth Inhibition Test (Method OECD) Hoechst AG, Plant Protection Research, Biology, Germany. Report No.: A31389	Y	N	AgrEvo	N
IIA, 8.2.6; 8.3.5; 8.2.1	1973	Knauf, W.; Schulze, E.-F. New Findings on the Toxicity of Endosulfan and its Metabolites to Aquatic Organisms Hoechst AG, Germany. Report No.: A05758 Mededelingen Fakulteit Landbouwwetenschappen, Gent. No. 38. 1973	N	Y	Publ.	N
IIA, 8.2.6	1986	Netrawali, M. S.; Gandhi, S. R.; Pednekar, M. D. Effects of Endosulfan, Malathion, and Permethrin on Sexual Life Cycle of Chlamydomonas reinhardtii	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Bhabha Atomic Research Centre, India. Report No.: A33977 Bull. Environ. Contam. Toxicol. Vol. 36. pages 412-420. 1986				
IIA, 8.2.6	1988	Tandon, R.S.; Rup Lal; and Narayana Rao, V.V.S. Interaction of Endosulfan and Malathion with Blue-Green Algae Anabaena and Aulosira fertilissima Univ.Kumaun, India; Sri Venkateswara.Coll., India. Report No.: A43,64 Environm. Pollution. Vol. 52. pages 1-9. 1988	N	Y	Publ.	N
IIA, 8.2.7	1991	Chandler, G.T.; Scott, G.I. Effects of sediment-bound Endosulfan on survival, reproduction and larval settlement of meiobenthic polychaetes and copepods University of South Carolina, USA. Report No.: A45651 Environm. Toxicol. Chem. Vol. 10. pages 375-382. 1991	N	Y	Publ.	N
IIA, 8.2.7; 8.3.5 / IIIA, 10.3.6	1982 1972	Goebel, H.; Gorbach, S.; Knauf, W.; Rimpau, R.H.; Huettenbach, H. Properties, Effects, Residues, and Analytics of the Insecticide Endosulfan Hoechst AG, Germany. Report No.: A30407 Residue Reviews. Vol. 83. pages 1 - 174. 1982	N	Y	Publ.	N
IIA, 8.2.7	1988	Swigert, James P. Acute Toxicity of Hoe-002671 to Midge Larvae (Chironomus tentans) Analytical Bio-Chem. Laboratories, Inc., USA. Report No.: A38295	Y	N	AgrEvo	N
IIA, 8.2.9	1983	Vardia, H.K.; Rao, P.S.; Durve, V.S. Sensitivity of Toad Larvae to 2,4-D and Endosulfan Pesticides Univ.Poona and Univ.Udaipur, India. Report No.: A31350 Arch.Hydrobiol. Vol. 100, No. 3. pages 395-400. 1984	N	Y	Publ.	N
IIA, 8.3.1/01	1978	Stevenson, J.H. The acute toxicity of unformulated pesticides to worker honey bees (Apis mellifera L.) Pl. Path 27, 38-40	N	Y	Publ.	N
IIA, 8.3.1/01; 8.3.2/02	1981	Makar, P.V.; Jadhav, L.D. Toxicity of some insecticides to the aphid predator menochilus sexmaculatus Farbicus. Indian Journal of Entomology, 43, 140-144	N	Y	Publ.	N
IIA, 8.3.1/02	1974	Singh, B.B., *et. al*. Toxicity of insecticides to honeybee workers, *Apis*	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		cerana indica F. Pesticides				
IIA, 8.3.1/04	1977	Stevenson, J.H., *et. al.* Poisoning in honeybees by pesticides: Investigation of the changing pattern in Britain over 20 years. Pl. Path 27, 38-40	N	Y	Publ.	N
IIA, 8.3.1.1	1986	Bock, K.-D. Laboratory Trials to Determine the Effect of Endosulfan (Hoe 0026710IZB990002) on the Honeybee Apis mellifera L Hoechst AG, LEA, Germany. Report No.: A37371	N	N	AgrEvo	N
IIA, 8.3.1/03		Needham, P.H.; Steveson, J.H. The toxicity of foraging honeybees *Apis mellifera* of endosulfan, melathion, and azinphos-methyl applied to flowering oil seed rape, *Brassica napus*.	N	N	Excel	N
IIA, 8.3.1/05	1981	Ghatnekar, S.D. Report of Endosulfan (technical) toxicity to honeybees. Personal letter, C.C. Shroff Research Institute	N	N	Excel	N
IIA, 8.3.1/06	1969	Attri, B.S.; Sharma, P.L. Toxicity of some insecticides to Indian honey bee (*Apis indica F.)* Pesticides	N	Y	Publ.	N
IIA, 8.3.2 / IIIA, 10.3.3.1	1988a	Mead-Briggs, Michael A. Technical grade endosulfan (Hoe 002671 0I ZD96 0002) and formulated thiodan 35 ec (Hoe 002671 0I EC33 B307). A laboratory and field investigation of the direct toxicity to non-target beneficial arthropods University Southampton, Dep. Biol., United Kingdom. Report No.: A37889	N	N	AgrEvo	N
IIA, 8.3.2/01	1982	Sithanantham, S. Effects of insecticide application on selected arthroped populations in sugarcane crop. Indian Journal of Plant Protection, 8, 85-88	N	Y	Publ.	N
IIA, 8.3.2/03	1980	Sharma, H.C.; Sarup, P. Feasibility of integrated control for the stalk borer, *Chilo partellus* (Swinhoe) infecting maize crop. Journal of Entomological Research, 4, 203-214	N	Y	Publ.	N
IIA, 8.3.2/05	1981	Sharma, H.C.; Adlakha, R.L. Selective toxicity of some insecticide to the adults of laybird beetle, *Coccinella septempunctata L. And cabbage aphid. Brevicoryne brassicae.* Journal of Entomological Research, 43, 92-99	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 8.3.2/04	1980	Dutt, N.; Somchodhury, A. K. Persistent toxicity of some insecticide to *Trichogramma perkinsi* Girault and *Trichogramma australicum* Girault (Hymenoptera: Trichogrammatidae) Journal of entomological research, 4, 203-214	N	Y	Publ.	N
IIA, 8.3.2/06	1981	Mansour, F. *et. al.* The effect on commonly esed pesticides on Chiracaanthium mildei and other spieders occuring on apple. Phytoparasitica, 9, 139-144	N	Y	Publ.	N
IIA, 8.3.2/07/08	1981	Hislop, R.G.; Prokopy, R.J. Integrated management on phytophagous mitesin Massachustts (U.S.A.) Apple Ochards. 2. Influence of pesticides on the predator *Amblyseius fallacis* (Acarina: *Phytoseiidae*) under laboratory and fiels conditions. Protection Ecology, 3, 157-172	N	Y	Publ.	N
IIA, 8.3.2/09	1982	Brettel, J.H. Green lacewings (Neuroptera: Chrysopidae) of cotton fields in Central Zimbabwe, 2. Biology of Chrysopa congrua Walker and C. Nudica Navas and toxicity of certain insecticides to their larvae. Zzimbabwex Journal of agricultural Research, 20. 77-84	N	Y	Publ.	N
IIA, 8.3.2/10	1982	Gravena, S.; Batista, G.C. Effect of sucrose, protein hydrolasate and insecticides on the greenbug *Scizaphis gramineum* (Rondai, 1852) (*Homoptera Aphididae*) and its associated natural enemmies on grain *shorgum*. Anais da Sociedade entomologica do Brasil, 8. 345-356	N	Y	Publ.	N
IIA, 8.3.2/11	1982	Beraldo, M.J.A.H.; Batista, G.C. Toxicity of cyclodiene insecticides and their effect on oxygen consumption in *Atta sexdens rubropilosa* Forel, 1908 (*Hymenoptera-Formicidae*) Anais da Sociedade Entomologicca do Brasil, 8. 225-232	N	Y	Publ.	N
IIA, 8.3.2/12	1981	Hagley, E.A.C., *et. al.* Toxicity of insecticides to parassits of the spotted teentiform leafminer (Lepidoptera: Gracillariidae) Canadian Entomologist, 113 (10) 899-906	N	Y	Publ.	N
IIA, 8.3.3/01	1981	Srivastava, V.; Misra, P.C. Effect of endosulfan on plasma membrane function on the yeast *Rodotorula Gracili.* Toxicol. Letters 7: 475-480	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIA, 8.3.3/02	1981	El Beit, I.O.D.; Wheelock, J.V.; Cotton, D.E. Pesticide-mocrobial interaction in the soil. Int. J. Environ. Studies 16: 171-180	N	Y	N	N
IIA, 8.3.3.1	1990	Fischer, R. Endosulfan - substance, technical (Hoe 002671 00 ZD98 0005). Effect to Eisenia fetida (Earthworm) in a 14 day Artficial Soil Test (method OECD) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A43674	Y	N	AgrEvo	N
IIA, 8.3.3.1	1990	Hans, R. K.; Gupta, R. C.; Beg, M. U. Toxicity Assessment of Four Insecticides to Earthworm, Pheretima posthuma Industrial Toxicology Research Centre, India. Report No.: A53744 Bull. Environ. Contam. Vol. 45. pages 358-364 Toxicology. 1990	N	Y	Publ.	N
IIA, 8.3.4	1975	Peeters, J.F.; Van Rossen, A.R. ; Heremans, K.A.; Delcambe, L. Influence of Pesticides on the Presence and Activity of Nitrogenase in Azotobacter vinelandii Univ.Leuven, Belgium. Report No.: A25670 J. Agric. Food Chem. Vol. 23, No. 3. pages 404-406. 1975	N	Y	Publ.	N
IIA, 8.3.4 / IIIA, 10.3.5.1	1990	Stratton, Glenn W. Effects of the Insecticide Endosulfan on Nitrification in Low pH Agricultural Soils Nova Scotia Agricultural College, Canada. Report No.: A48342 Toxicity Assessment: An International Journal. Vol. 5. pages 319-336. 1990	N	Y	Publ.	N
IIA, 8.3.4	1985	Taubel, N.; Baedelt, H.; Frings, H. Investigation into the Effect of Endosulfan Technical Grade a.i. Identifying Code: Hoe 002671 01 ZD95 0005 on the Ammonification and Nitrification of Horn Meal Nitrogen Hoechst AG, LEA, Germany. Report No.: A32668	N	N	AgrEvo	N
IIA, 8.3.4	1977	Wainwright, M.; Kowalenko, C.G. Effects of Pesticides, Lime and Other Amendments on Soil Ethylene Soil Res.Inst., Canada. Report No.: A32091 Plant and Soil. Vol. 48. pages 253-258. 1977	N	Y	Publ.	N
IIA, 8.3.5	1970	Gorbach, S.; Knauf, W. ENDOSULFAN und Umwelt. Das Rueckstandsverhalten von ENDOSULFAN in Wasser und seine Wirkung auf Organismen, die im Wasser-leben	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoechst Pharma Fo.To., DEU; Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene, 1971. Report No.: A14220 Hoechst Pfl.Fo.Biol., Germany				
IIIA, 10.1	1972	Hoerger, Fred; Kenaga, Eugene Pesticide Residues on Plants: Correlation of Representative Data as a Basis for Estimation of Their Magnitude in the Environment Dow Chem. Corp., USA. Report No.: A32850 Environmental Quality I; Academic Press, New York; 1972; 9 - 28	N	Y	Publ.	N
IIIA, 10.1	1973	Kenaga, E. E. Factors to be Considered in the Evaluation of the Toxocity of Pesticides to Birds in Their Environment Dow Chem. Company, USA. Report No.: A32849 Environmental Quality and Safety II,{Abs}Academic Press; New York; {Abs}1973; 166 - 181	N	Y	Publ.	N
IIIA, 10.1	1995	Sochor H. Endosulfan, Estimating mean residues in leafy crops AgrEvo GmbH, Development, Residues and Consumer Safety, Germany. Report No.: A53761	N	N	AgrEvo	N
IIIA, 10.1.1	1990c	Ebert, E.; Leist, K.-H. Endosulfan - emulsifiable concentrate (352 g/l) (Code: Hoe 002671 0I EC33 B313) repellence study with a 0.1 % spray mix offered under heat stress to Japanese quails (Coturnix coturnix japonica) [redacted]: A43995	N	N	AgrEvo	N
IIIA, 10.1.1/01		Dikshith, T.S.S. Report on acute oral toxicity of Endocel (Excel Industries) EC 35 in Chicken. Excel Industries Ltd. [redacted]	Y	N	Excel	N
IIIA, 10.1.1/02		Dikshith, T.S.S. Report on acute oral toxicity of Endocel (Excel Industries) EC 35 in Pigeon. Excel Industries Ltd. [redacted]	Y	N	Excel	N
IIIA, 10.1.2/01	1980	Douthwaite, R.J. Occurrence of birdss in Acacia Woodland in Northern Botswana related to endosulfan sprayed for Tsetse fly control. Environ. Poll. (Series A) 22: 273-279	N	Y	Publ.	N
IIIA, 10.2	1995	Ganzelmeier, H.; Rautmann, D. *et al.*	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Studies on the spray drift of plant protection products - Results of a test programm carried out throughout the Federal Republic of Germany, Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft, Berlin-Dahlem, Heft 305, Backwell Wissenschafts-Verlag GmbH Berlin/Wien Landesanstalt fuer Pflanzenschutz, Stuttgart. Fraunhofer Institut fuer Umweltchemie und Oekotoxikologie, Schmallenberg. Report No.: A56850				
IIIA, 10.2.1/02; 10.2.3/01	1982	Fox, P.J.; Mathiessen, P. Acute toxicity to fish of Low-dose aerosol applications of endosulfan to control tsetse fly in the Okavango Delta, Botswana. Environ. Poll. (series A) 27: 129-142	N	Y	Publ.	N
IIIA, 10.2.1.1	1971	Arora, H.C.; Shrivastava, S.K.; Seth, A.K. Bioassay Studies of Some Commercial Organic Insecticides. Part I. Studies with an Exotic Carp Puntius Sophore (Ham.) [redacted] Report No.: A25870 Indian J. Environm. Health. Vol. 13, No. 3. pages 226-233. 1971	N	Y	Publ.	N
IIIA, 10.2.1.1	1978	Dalela, R.C.; Verma, S.R.; Batnagar, M.C. Biocides in Relation to Water Pollution. Part I: Bioassay Studies on the Effects of a Few Biocides on Fresh Water Fish, Channa gachua [redacted] A25861 Acta hydrochim. hydrobiol. Vol. 6, No.1. pages 15-25. 1978	N	Y	Publ.	N
IIIA, 10.2.1.1	1987	Deoray, B.M.; Wagh, S.B. Acute toxicity of Thiodon, Nuvan and Dithane M-45 to the freshwater fish, Barilius bendelisis(Ham.) [redacted] A43067 Geobios. Vol. 14. pages 151-154. 1987	N	Y	Publ.	N
IIIA, 10.2.1.1	1984b	Fischer, R. The Effect of Hoe 002671 0I EC33 B305 (Endosulfan, Emulsifiable Concentrate 352 g/l) to Salmo gairdneri (Rainbow Trout) in a Static Test [redacted] A30032	Y	N	AgrEvo	N
IIIA, 10.2.1.1	1984c	Fischer, R. The Effect of Hoe 002671 0I EC33 B305 (Endosulfan, Emulsifiable Concentrate 352 g/l) to Lepomis macro- chirus (Blugill sunfish) in a Static Test	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		[redacted]: A29508				
IIIA, 10.2.1.1	1991	Gill, T.S.; Pande, J.; Tewari, H. Individual and combined toxicity of common pesticides to teleost Puntius conchonius Hamilton [redacted] A47588 Indian Journal Experim. Biol. Vol. 29. pages 145-148. 1991	N	Y	Publ.	N
IIIA, 10.2.1.1	1977	Gopalakrishna Reddy, A.; Gomathy, S. Toxicity and Respiratory Effects of Pesticide, Thiodan on Catfish, Mystus vittatus [redacted] A25913 Indian J. Environ. Health. Vol. 19, No. 4. pages 360-363. 1977	N	Y	Publ.	N
IIIA, 10.2.1.1	1984	Gupta, P.K.; Mujumdar, V.S.; Rao, P.S. Studies on the Toxicity of Some Insecticides to a Freshwater Teleost Lebistes reticulatus (Peters) [redacted] Report No.: A32237 Acta hydrochim. hydrobiol. Vol. 12. pages 629-636. 1984	N	Y	Publ.	N
IIIA, 10.2.1.1	1977b	Knauf Effect of Hoe 02671 0 I EG022 (35 Emulsifiable Concentrate) on Idus Melanotus (Golden Orfe) [redacted] A16730	N	N	AgrEvo	N
IIIA, 10.2.1.1	1977d	Knauf Effect of Hoe 02671 0 I G022(Emulsifiable Concentrate 35) on Cyprinus Carpio (carp) [redacted] A14970	N	N	AgrEvo	N
IIIA, 10.2.1.1	1978	Knauf Effect of Hoe 02671 0I EG022 (Emulsifiable Concentrate) on Lebistes Reticulatus (Guppy) [redacted]: A18466	N	N	AgrEvo	N
IIIA, 10.2.1.1	1977c	Knauf Effect of Hoe 026710 I EG022 (Emulsifiable Concentrate) on Salmo gairdneri (Rainbow Trout) [redacted] A14969	N	N	AgrEvo	N
IIIA, 10.2.1.1	1982	Manoharan, T.; Subbiah, G.N.	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Toxic and Sublethal Effects of Endosulfan on Barbus stigma (Pisces: Cyprinidae) [redacted] A27749 Proc. Ind. Acad. Sci. Vol. 91, No. 6. pages 523-532. 1982				
IIIA, 10.2.1.1	1988	Naqvi, Syed M.; Hawkins, Reanold Toxicity of Selected Insecticides (Thiodan(R), Security(R), Spartan(R), and Sevin(R)) to Mosquitofish, Gambusia affinis [redacted] A43065 Bull. Environ. Contam. Toxicol. Vol. 40, pages 779-784, 1988	N	Y	Publ.	N
IIIA, 10.2.1.1	1987	Trim, A. H. Acute Toxicity of Emulsifiable Concentrations of Three Insecticides Commonly Found in Nonpoint Source Runoff into Estuarine Waters to the Mummichog, Fundulus heteroclitus South Carolina Dep.Health and Envir. Control, USA. Report No.: A36296 Bull. Environ. Contam. Toxicol. Vol. 38. pages 681-686. 1987	N	Y	Publ.	N
IIIA, 10.2.1.1	1981	Verma, S.R.; Rani, Sarita; Bansal, S.K.; Dalela, R.C. Evaluation of the Comparative Toxicity of Thiotox, Dichlorvos and Carbofuran to Two Fresh Water Teleosts Ophiocephalus punctatus and Mystus vittatus. [redacted]: A29130 Acta hydrochim. hydrobiol. Vol.9, No. 2. pages 119-129. 1981	N	Y	Publ.	N
IIIA, 10.2.1.1	1982	Verma, S.R.; Bansal, S.K.; Gupta, A.K.; Pal, N.; Tyagi, A.K.; Bhatnagar, M.C.; Kumar, V.; Dalela, R.C. Bioassay Trials with Twenty Three Pesticides to a Fresh Water Teleost, Saccobranchus fossilis [redacted] A25048 Water Res. Vol. 6. pages 525-529. 1982	N	Y	Publ.	N
IIIA, 10.2.1.2	1984a	Fischer, R. The Effect of Hoe 002671 0I EC33 B305 (Endosulfan, emulsifiable Concentrate 352 g/l) to Daphnia magna (Waterflea) in a Static Test Hoechst Pfl.Fo.Biol., Germany. Report No.: A29798	Y	N	AgrEvo	N
IIIA, 10.2.1.2	1991	Heusel, R. Endosulfan - emulsifiable concentrate; 352 g/l (Hoe 002671 00 EC33 B319). Effect to Daphnia magna (Waterflea) in a 21-day Reproduction Test (method OECD)	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Hoechst AG Product Development Ecology I, Germany. Report No.: A46381				
IIIA, 10.2.1.2	1988	Joshi, H.C.; Mukhopadhyay, M.K. Toxicity of Quinalphos and Endosulfan to Different Life-stages of Tiger Prawn (Penaeus monodon) Cent.Inland Capture Fish., India. Report No.: A48339 Environmental Conservation. (year of publication estimated, no information available). pages 266-267. 1988	N	Y	Publ.	N
IIIA, 10.2.1.2	1976	Knauf Effect of Hoe 02671 0I EG022 (Emulsifiable Concentrate 35) on Daphnia Magna (Water Flea) Hoechst Pfl.Fo.Biol., Germany. Report No.: A16729	N	N	AgrEvo	N
IIIA, 10.2.1.2	1977a	Knauf Effect of Hoe 02671 0 I EG022 (Emulsifiable Concentrate 35) on Aedes aegypti (Yellow Fever Mosquito) Hoechst Pfl.Fo.Biol., Germany. Report No.: A16736	N	N	AgrEvo	N
IIIA, 10.2.1.2	1960	Luedemann, D. ; Neumann, H. Experiments on the Acute Toxic Effect of Modern Contact Insecticides on Freshwater Organisms. Third Contribution: Chironomidae Larvae BGA, Germany. Report No.: A18837 Zeitschr. f. angew. Zool. Vol.47. pages 493-505. 1960	N	Y	Publ.	N
IIIA, 10.2.1.2	1984	Mane, U.H.; Muley, D.V. Acute Toxicity of Endosulfan 35 EC to Two Freshwater Bivalve Molluscs from Godavari River at Maharashtra State, INDIA Univ.Marathwada, India. Report No.: A31349 Toxicology Letters. Vol. 23. pages 147-155. 1984	N	Y	Publ.	N
IIIA, 10.2.1.2	1989	Naqvi, Syed M.; Hawkins, Reanold H. Reponses and LC_{50} Values for Selected Microcrustaceans Exposed to Spartan(R), Malathion, Sonar(R), Weedtrine-D(R) and Oust(R) Pesticides Univ.Louisiana, USA. Report No.: A43062	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Bull. Environ. Contam. Toxicol. Vol. 43. pages 386-393. 1989				
IIIA, 10.2.1.2	1987	Naqvi, Syed M.; Hawkins, Reanold; Naqvi, Nusrat H. Mortality Response and LC 50 Values for Juvenile and Adult Crayfish, Procambarus clarkii, Exposed to Thiodan(R) (Insecticide), Treflan(R), MSMA, Oust(R) (Herbicides) and Cutrine-Plus(R) (Algicide) [redacted]A43061 Environm. Pollution. Vol. 48. pages 275-283. 1987	N	Y	Publ.	N
IIIA, 10.2.2.1	1993	Peterson, S.M.; Batley, G.E. The fate of endosulfan in aquatic ecosystems CSIRO Inst.Biol.Resour., Australia. Report No.: A53056 Environmental Pollution. Vol. 82. pages 143-152. 1993	N	Y	Publ.	N
IIIA, 10.2.2.3	1981	Baldry, D.A.T.; Everts, J.; Roman, B.; Boon von Ochssee, G.A.; Laveissiere, C. The Experiment Application of Insecticides from a Helicopter for the Control of Riverine Populations of Glossina tachinoides in West Africa. Part VIII: The Effects of Two Spray Applications of OMS-570 (endosulfan) and of OMS-1998 (decamethrin) on G. tachinoides and Non-Target Organisms in Upper Volta. WHO, Switzerland. Report No.: A21408 Tropic. Pestic Managem.. Vol. 27. pages 83-110. 1981	N	Y	Publ.	N
IIIA, 10.2.2.3	1981	Douthwaite, R.J.; Fox, P.J.; Matthiessen, P.; Russel-Smith, A. The Environmental Impact of Aerosols of ENDOSULFAN Applied for Tsetse Fly Control in the Okavango Delta, Botswana. Final Report of the ENDOSULFAN Monitoring Project Overseas Development Administration, United Kingdom. Report No.: A23822	N	N	AgrEvo	N
IIIA, 10.2.2.3	1971	Gorbach, S.; Haarring, R.; Knauf, W.; Werner, H.J. Residue Analyses and Biotests in Rice Fields of East Java Treated with Thiodan Hoechst AG, Germany. Report No.: A18219 Bull. Environ. Contam. Toxicol. Vol. 6. pages 193-199. 1971	N	Y	Publ.	N
IIIA, 10.2.2.3	1978	Koeman, J.H.; Den Boer, W.M.J.; Feith, A.F.; de Jongh, H.H.; Spliethoff, P.C. Three Years´ Observation on Side Effects of Helicopter Applications of Insecticides Used to Exterminate Glossina Species in Nigeria	N	Y	Publ.	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Agric. Univ.Wageningen, Netherlands. Report No.: A25903 Environmental Pollution. Vol. 15. pages 31 - 59. 1978				
IIIA, 10.2.2.3	1978	Magadza, C.H.D. Field Observations on the Environmental Effect of Large-Scale Aerial Applications of Endosulfan in the Eradication of Glossina morsitans centralis Westw. in the Western Province of Zambia in 1968 National Counc.for Scientific Research, Zambia. Report No.: A35665 Rhodesian J. Agric. Res. Vol.16. pages 211-220. 1978	N	Y	Publ.	N
IIIA, 10.3.1	1989a	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317). Testing for acute oral toxicity in the male and female Wistar rat [redacted] A42355	Y	N	AgrEvo	N
IIIA, 10.3.1	1989b	Ebert, E.; Leist, K.-H. Endosulfan; emulsifiable concentrate; 352 g/l, (Code: Hoe 002671 00 EC33 B317). Testing for acute oral toxicity in the male and female NMRI mice [redacted] A42359	Y	N	AgrEvo	N
IIIA, 10.3.1	1990a	Ebert, E.; Leist, K.-H. Endosulfan; Emulsifiable Concentrate; 352 g/l (Code: Hoe 002671 00 EC33 B317), testing for acute oral toxicity in the male and female rabbit [redacted] A43165	Y	N	AgrEvo	N
IIIA, 10.3.1	1984	Edwards, J. A.; Reid, Y. J.; Offer, J. M., Almond, R. H., Gibson, W. A. Effect of Endosulfan-Technical (Code: Hoe 02671 0I AT209) on Reproductive Function of Multiple Generations in the Rat [redacted] No.: A29428	Y	N	AgrEvo	N
IIIA, 10.3.2.1.1	1986	Bock, K.-D. Laboratory investigations into the effects of Thiodan 35 EC (Code: Hoe 002671 0I EC33 B305) on the honey bee Apis mellifera L. Hoechst LEA, Germany. Report No.: A45397	N	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIIA, 10.3.2.1.2; 10.3.2.4; 10.3.2.3	1996	Bock, K.-D. Endosulfan, emulsifiable concentrate 352 g/l (Code: Hoe 002671 00 EC33 B3**) Summary and evaluation of the effects of Thiodan 35EC on honey bees Hoechst Schering AgrEvo GmbH, Germany. Report No.: A57215	N	N	AgrEvo	N
IIIA, 10.3.2.3	1985	Bock, K.-D. Ergebnis der Pruefung auf Bienengefaehrlichkeit (Zusammenfassung) LEA Hoechst AG, Germany. Report No.: A32371	N	N	AgrEvo	N
IIIA, 10.3.3/01	1986	Anderson, J.F.; Wojtas, M.A. Pesticides and polychlorinated biphenyls in honey bees. J. Econ. Entomol. 79: 1200-1205	N	Y	Publ.	N
IIIA, 10.3.3/02	1988	Douthwaite, R.J.; Mahmoud, D.A., Abdisalam, S.I. Effects on drift sprays of endosulfan. Applied for tsetse fly control, on *honeybees (Apis mellifera* L.) in Somalia J. Apic. Res. 27 (1): 40-48	N	Y	Publ.	N
IIIA, 10.3.3.1	1990a	Bock, K.-D. Testing the effects of Thiodan 35 liquid on the larvae of Coccinella septempunctata in laboratory tests Hoechst C Produktentwicklung Oekologie 2, Germany. Report No.: A56008	N	N	AgrEvo	N
IIIA, 10.3.3.1	1990b	Bock, K.-D. Testing the effects of (R)Thiodan 35 liquid on the larvae of Chrysopa carnea in laboratory tests Hoechst AG, Produktentwicklung Oekologie II, Germany. Report No.: A56007	N	N	AgrEvo	N
IIIA, 10.3.3.1	1990c	Bock, K.-D. Testing the effects of (R)Thiodan 35 liquid on the larvae of Syrphus corollae in laboratory tests Hoechst AG, Produktentwicklung Oekologie II, Germany. Report No.: A56009	N	N	AgrEvo	N
IIIA, 10.3.3.1	1992a	Kuehner, Ch. Erfassung der Nebenwirkungen von Thiodan 35 fluessig (Hoe 002671 0I EC33 B313) auf die Florfliege, Chrysoperla carnea Steph. im Labor GAB Biotechnologie GmbH, Germany. Report No.: A48847	Y	N	AgrEvo	N
IIIA, 10.3.3.1	1992b	Kuehner, Ch.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Erfassung der Nebenwirkungen von Thiodan 35 fluessig (Hoe 002671 0I EC33 B313) auf den Grossen Siebenpunkt Marienkaefer, Coccinella septempunctata L. (Labor-Pruefung) GAB Biotechnologie GmbH, Germany. Report No.: A48846				
IIIA, 10.3.3.2 / 10.3.2.4	1985	Brasse, Dietrich Zur Wirkung von endosulfanhaltigen Insektiziden auf Nuetzlinge und Bienen / Side effects of Endosulfan-containing insecticides to beneficial organisms and honey bees Biolog. Bundesanstalt fuer Land- und Forstwirtsch., Germany. Report No.: A32235 Nachrichtenbl. Deutsch. Pflanzenschutzdienst. Vol. 37, No. 4. pages 54-58.	N	Y	Publ.	N
IIIA, 10.3.3.2	1991	Ferch, Th. Effects of (R) Thiodan 35 liquid on predatory mites in vineyards Hoechst AG, Produktentwicklung Oekologie II, Germany. Report No.: A56511	N	N	AgrEvo	N
IIIA, 10.3.3.2	1992	Krull, Stefan Die Selektive Wirkung von Thiodan (Endosulfan) auf Nutzarthropoden Univ.Giessen, Germany. Report No.: A47600	N	N	AgrEvo	N
IIIA, 10.3.3.2	1988b	Mead-Briggs, M., A. The Effects of endosulfan on non-target arthropods in winter oilseed rape Univ. Southampton, United Kingdom. Report No.: A43303	N	N	AgrEvo	N
IIIA, 10.3.3.2	1989	Mead-Briggs, M.,A. The effects of endosulfan on non-target arthropods on winter oilseed rape. Supplementary report on sampling carried out in the season subsequent to the original application in May 1987 Univ. Southampton, Dep. Biol., United Kingdom. Report No.: A43302	N	N	AgrEvo	N
IIIA, 10.3.4.1.1	1990	Fischer, R. Endosulfan - emulsifiable concentrate 352 g/l (Hoe 002671 00 EC33 B319). Effect to Eisenia fetida (Earthworm) in a 14 day Artificial Soil Test (method OECD) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A43675	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
IIIA, 10.3.4.1.1	1983	Haque, Ajazui; Ebing, Winfried Toxicity Determination of Pesticides to Earthworms in the Soil Substrate BBA, Germany. Report No.: A28776 Z. Pflanzenkrankh. Pflanzenschutz. Vol.90, No. 4. pages 395-408. 1983	N	Y	Publ.	N
IIIA, 10.3.4.1.1	1984	Heimbach, Fred Correlations Between Three Methods for Determining the Toxicity of Chemicals to Earthworms Bayer, Germany. Report No.: A32903 Pestic. Sci. Vol. 15. pages 605-611. 1984	N	Y	Publ.	N
IIIA, 10.3.4.1.1	1985	Heimbach, Fred Comparison of Laboratory Methods, Using Eisenia foetida and Lumbricus terrestris, for the Assessment of the Hazard of Chemicals to Earthworms Bayer, Germany. Report No.: A32902 Z. Pflanzenkrankh. Pfl.schutz. Vol. 92, No. 2. pages 186-193. 1985	N	Y	Publ.	N
IIIA, 10.3.4.1.3	1992	Reddy, M. Vikram; Reddy, V. Ravinder Effects of organochlorine, organophosperus and carbamate insecticides on the population structure and biomass of earthworms in a semi-arid tropical grassland Univ.Warangal, India. Report No.: A51812 Soil Biol. Biochem. Vol. 24. No. 12. 1733 - 1738. 1992	N	Y	Publ.	N
IIIA, 10.3.4.2	1971	Drake, J.L.; Warf, G.W.; Werner , F.G. Insecticidal Effects on Soil Arthropods Univ.Arizona, United States. Report No.: A25658 J. Econ. Entomol. Vol. 64, No. 4. pages 842 - 845. 1971	N	Y	Publ.	N
IIIA, 10.3.5.1	1989a	Baedelt, H. Thiodan liquid (endosulfan) - emulsifiable concentrate (352 g/l) (Code: Hoe 002671 00 EC33 B313) Investigating the short-term effect on aerobic soil respiration Hoechst AG, Produktentwicklung Oekologie II, Germany. Report No.: A55890	N	N	AgrEvo	N
IIIA, 10.3.5.1	1989b	Baedelt, H. Thiodan liquid (endosulfan) - emulsifiable concentrate (352 g/l) (Code: Hoe 002671 00 EC33 B313) Investigation into the effect on the nitrification of ammonium sulphate Hoechst AG, Produktentwicklung Oekologie II, Germany. Report No.: A42099	N	N	AgrEvo	N
IIIA, 10.3.5.1	1991	Baedelt, H.	Y	N	AgrEvo	N

Annex IIA, or Annex IIIA point(s)	Year	Author (s) Title Company (insert name) Report No. Source (where different)	GLP GEP Y / N	Published Y / N	Owner	Data Protection
		Code: Hoe 002671 00 EC33 B320 (endosulfan) emulsifiable concentrate (352 g/l) Investigating the short-term effect on aerobic soil respiration (in accordance with BBA, VI, 1-1) Hoechst AG Produktentwicklung Oekologie II, Germany. Report No.: A56010				
IIIA, 10.3.5.1	1984	Muralikrishna, P.V.G.; Venkateswarlu, K. Effect of Insecticides on Soil Algal Population Univ. Nagarjuna, India. Report No.: A31347 Bull. Environ. Contam. Toxicol. Vol. 33. pages 241-245. 1984	N	Y	Publ.	N
IIIA, 10.3.6	1989	Knauf, Werner; Waltersdorfer, Anna The Insecticidal Efficacy of Endosulfandiol (Hoe 051329), Endosulfanlacton (Hoe 051328), Endosulfansulfate (Hoe 051327) in comparison with Endosulfan (Hoe 002671) Hoechst C Produktentwicklung Oekologie 1, Germany. Report No.: A41240	N	N	AgrEvo	N
	1984	World Health Organization IPCS (International Programme on Chemical Safety), environmental Health Criteria, 40, endosulfan World Health Organization, Geneva		Y	Publ.	N
	1994	British Crop Protection Coooouncil The pesticide Manual, incorporing the agrochemical handbook, 10th edition, page 388-390		Y	Publ.	N