



Draft Assessment Report

Evaluation of Active Substances

Plant Protection Products

Prepared according to **assimilated Regulation No 1107/2009**
as it applies in Great Britain

Inpyrfluxam

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Version History



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A. List of the Tests, Studies and Information Submitted




A.1. Identity



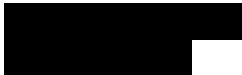
Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
JCA 1.11/01		2018a	Batch Analysis of S-2399 Technical Grade, Study No. GP18018, Report No. TPP-0033, Sumika Chemical Analysis Service Ltd., Japan GLP Not published Confidential	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
JCA 1.11/02		2018b	Batch Analysis of S-2399 Technical Grade for Intermediate A	N	Y	The study is necessary for the regulatory decision, conducted	SUM	None (new active)

			Study No. GP18019, Report No. TPP-0035 Sumika Chemical Analysis Service Ltd., Japan GLP Not published Confidential			according to GLP and has not previously been protected or submitted		
KCA 1.11/03		2016a	Analytical Determination of Active Ingredient and Impurities in S- 2399 Technical Grade (Lot No. 13CG0617G) Study No. GP16108, Report No. TPP-0015, Sumika Chemical Analysis Service, Ltd., Japan GLP Not published Confidential	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 1.11/04		2016b	Analytical Determination of Intermediate A in S- 2399 Technical Grade (Lot No. 13CG0617G) Study No. GP16109, Report No. TPP-0018,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or	SUM	None (new active)

			Sumika Chemical Analysis Service, Ltd., Japan GLP Not published Confidential			submitted		
KCA 4.1.1/01		2016c	Enforcement Analytical Methods of S-2399 Technical Grade Study No. GP16057, Report No.TPA-0019 Sumika Chemical Analysis Service, Ltd., Japan GLP Not published Confidential	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 4.1.1/02		2018a	Confirmation of Identification of Impurities in S-2399 Technical Grade Study No. B0128, Report No. TPA-0065 Sumitomo Chemical Co., Ltd., Japan, Non-GLP Not published Confidential	N	Y	Not applicable	SUM	None (new active)
KCA 4.1.1/03		2016d	Enforcement Analytical Method of Intermediate A in S-	N	Y	The study is necessary for the regulatory	SUM	None (new active)

			2399 Technical Grade Study No. GP16058, Report No. TPA-0023, Sumika Chemical Analysis Service, Ltd., Japan GLP Not published Confidential			decision, conducted according to GLP and has not previously been protected or submitted		
KCA 4.1.1/04		2016e	Enforcement Analytical Method of Impurities Y and Z in S-2399 Technical Grade Study No. GP16075, Report No.TPA-0021 Sumika Chemical Analysis Service, Ltd., Japan GLP Not published Confidential	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 4.1.1/05		2018b	Confirmation of Identification of Impurities in S-2399 Technical Grade Study B0129, Report TPA-0066 Sumitomo Chemical Co., Japan, GLP	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or	SUM	None (new active)

			Not published Confidential			submitted		
KCA 4.1.1/06		2025	Analysis of S-2399 Technical Grade for Impurity F, Report No. TPP-0060 Sumitomo Chemical Co., Ltd. Non-GLP, Not published	N	Y	Not applicable	SUM	None (new active)
KCA 4.1.1/07		2016	Characterization of impurity standards for S-2399 analysis. Sumika Chemical analysis service Ltd. Report No. TPP- 0009 Study No.: GP15071 GLP Not published	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 4.1.2/01		2014	Validation of an Analytical Method for RATM in Corn Oil Study No.:14003VAL, Report No: TPA- 0011 Sumika Technoservice Corporation, Japan GLP Not published	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Confidential					
KCA 5.8.2.1/01		2013	Bacterial Reverse Mutation Test of SF-136 Study No. USA-R-13056, Report No. TPT-0083 UBE Scientific Analysis Laboratory Inc., Japan GLP Not published Confidential	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.2.1/02		2015	Comet/Mironucleus Combined Assay on RATM in Rats Study No. 4305, Report No. TPT-0043  GLP Not published Confidential	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

A.2. Physical and Chemical Properties

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 2.1	██████████	2016a	S-2399 PAI: Determination of Physico-Chemical Properties Envigo Research Ltd, UK, Study No. 41501169 Sumitomo Chemical Co., Ltd. Report No: TPP- 0010, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.2/01	██████████	2014a	S-2399 PAI: Determination of Vapor Pressure Harlan Laboratories, UK, Study No. 41304332 Sumitomo Chemical Co., Ltd. Report No: TPP- 0003, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 2.2/02		2016	S-2399 – Henry's Law Constant, Exponent International Ltd., UK, Study No. 1403863.UK0-9888 Sumitomo Chemical Co., Ltd. Report No. TPP-0011 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 2.3/01		2015	S-2399 PAI: Determination of Appearance Harlan Laboratories Ltd, UK, Study No. 41304120 Sumitomo Chemical Co., Ltd. Report No: TPP-0006, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.3/02		2015	S-2399 TGAI: Determination of Appearance Harlan Laboratories, UK, Study No. 41304529 Sumitomo Chemical Co., Ltd. Report No: TPP-0007, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.4/01		2014b	S-2399 PAI: Determination of Infrared Spectrum and	N	Y	The study is necessary for the regulatory	SUM	None (new active)




			Ultraviolet/visible Spectra Harlan Laboratories Ltd, UK, Study No. 41304121 Sumitomo Chemical Co., Ltd. Report No: TPP-0005, GLP, unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
KCA 2.4/02	██████ &	2014	S-2399 PAI: Determination of NMR and Mass spectra. 1 st Amendment. Spectral Service AG, Germany, Study No. SSL04213 Sumitomo Chemical Co., Ltd. Report No: TPP-0004, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.5	██████████	2013a	S-2399: Determination of Water Solubility Harlan Laboratories Ltd, UK, Study No. 41303367 Sumitomo Chemical Co., Ltd. Report No: TPP-0001, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.6	██████████	2016b	S-2399 TGAI: Determination of Physico-Chemical Properties, Envigo Research Ltd.,	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

			UK Study No. 41501170 Sumitomo Chemical Co., Ltd. Report No: TPP- 0012, GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 2.7/01		2013b	S-2399:Determination of Partition Coefficient (n- Octanol/Water) Harlan Laboratories Ltd, UK, Study No. 41303719 Sumitomo Chemical Co., Ltd. Report No: TPP- 0002, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.7/02		2016a	3'-OH-S-2840 (S-2399 Metabolite): Determination of Octanol:Water Partition Coefficient Smithers Viscient Ltd.,UK, Study No. 3201598, Sumitomo Chemical Co., Ltd. Report No: TPP- 0020 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.7/03		2016b	1'-COOH-S-2840A and 1'-COOH-S-2840B (S- 2399 Metabolites): Determination of	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

			Octanol:Water Partition Coefficient and Effect of pH Smithers Viscient Ltd.UK, Study No. 3201599 Sumitomo Chemical Co., Ltd. Report No: TPP-0021 GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 2.7/04		2020	1'-CH ₂ OH-S-2840 Metabolites: Evaluation of n-Octanol/Water Partition Coefficient by HPLC simulation Smithers ERS Ltd.UK, Study No. 3202779 Sumitomo Chemical Co., Ltd. Report No: TPP-0051 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.8		2014b	S-2399 PAI: Determination of Infrared Spectrum and Ultraviolet/visible Spectra Harlan Laboratories Ltd, UK, Study No. 41304121 Sumitomo Chemical Co., Ltd. Report No: TPP-0005, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 2.9		2017	S-2399 TGA1: Determination of Hazardous Physico- Chemical Properties Envigo Research Ltd, UK, Study No. XR24YD Sumitomo Chemical Co., Ltd. Report No: TPP- 0024, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.11/01		2017	S-2399 TGA1: Determination of Hazardous Physico- Chemical Properties Envigo Research Ltd, UK, Study No. XR24YD Sumitomo Chemical Co., Ltd. Report No: TPP- 0024, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.11/03		2025	Differential Scanning Calorimetry on a Sample of S-2399 TG (Inpyrfluxam Technical Grade) DEKRA Study No. GLP3016018835R /2025 Sumitomo Chemical Co., Ltd Report No: TPP-0061	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP: Yes Published: No					
KCA 2.12 KCA 2.11/02		2016a	S-2399 PAI: Determination of Physico-Chemical Properties Envigo Research Ltd, UK, Study No. 41501169 Sumitomo Chemical Co., Ltd. Report No: TPP- 0010, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 2.13		2017	S-2399 TGA: Determination of Hazardous Physico- Chemical Properties Envigo Research Ltd, UK, Study No. XR24YD Sumitomo Chemical Co., Ltd. Report No: TPP- 0024, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.1		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA- W, Belgium Study No. 24343	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished			protected or submitted		
KCP 2.2/01		2020	Testing on Sample S-2399 60g/l EC (V16-7) DEKRA Insight (Chilworth Technology), UK, Study No. GLP/3016006183 Sumitomo Chemical Co., Ltd. Report No. TPF-0054 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.2/02		2020	Testing on Sample S-2399 60g/l EC (V16-7) DEKRA Insight (Chilworth Technology), UK, Study No. GLP/3016006183 Sumitomo Chemical Co., Ltd. Report No. TPF-0054 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.2/03		2020	Testing on Sample S-2399 60g/l EC (V16-7) DEKRA Insight (Chilworth Technology), UK, Study No. GLP/3016006183	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No. TPF-0054 GLP, unpublished			protected or submitted		
KCP 2.3/01	██████████	2020	Testing on Sample S-2399 60g/l EC (V16-7) DEKRA Insight (Chilworth Technology), UK, Study No. GLP/3016006183 Sumitomo Chemical Co., Ltd. Report No. TPF-0054 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.3/02	██████████	2020	Testing on Sample S-2399 60g/l EC (V16-7) DEKRA Insight (Chilworth Technology), UK, Study No. GLP/3016006183 Sumitomo Chemical Co., Ltd. Report No. TPF-0054 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.4/01	██████████	2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been	SUM	None (new active)

			Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF- 0060 GLP, unpublished			protected or submitted		
KCP 2.4/02		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA- W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF- 0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.5/01		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA- W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF- 0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.5/02		2021	Physical and chemical properties and storage stability tests of	N	Y	The study is necessary for the regulatory	SUM	None (new active)

			an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
KCP 2.6		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.7/01		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished					
KCP 2.7/02		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.7/03		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.8.2		2021	Physical and chemical properties and storage stability tests of an emulsifiable	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

			concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCP 2.8.6		2021	Physical and chemical properties and storage stability tests of an emulsifiable concentrate (EC) containing S-2399 Wallonie recherche CRA-W, Belgium Study No. 24343 Sumitomo Chemical Co., Ltd. Report No. TPF-0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 2.9/01		2025	Physical chemical compatibility tests Physical compatibility of pesticides in aqueous tank mixtures by dynamic shaker method S-2399 60G/L EC V16-7 tank mixed with other products PHILAGRO France Study No. 2025-013 GLP: No	N	Y	The study is necessary for this regulatory decision and is eligible for data protection	SUM	None (new active)

			Published: No					
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A.3. Data on Application and Efficacy

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCP 3.9	Sumitomo Chemical Agro Europe	2021	Report to support the active substance approval – Efficacy data and information - S-2399 60 g/L EC Document K-CP, Section 3 Sumitomo Chemical Co., Ltd. Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)

A.4. Further Information

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 9.1	Exponent International Ltd. Harrogate HG2 8RE UK	2018 Updated to 2023	Dossier for the evaluation of the active substance Inpyrfluxam (S-2399) Literature review report(Fulfilling EU data points: KCA Section 9/ KCP Section 11)Exponent International Ltd. UK Exponent QAID: 1403863.UK0 – 4472 Sumitomo Chemical Co., Ltd. Report No:TPT-0133 Non GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 10/01	Anon	2023	██████████ Safety Data Sheet, ██████████ ID No. ██████████/SDS_GEN_IE/EN, Non-GLP, unpublished Confidential	N	N	Not applicable	SUM	None (new active)

KCA 10/02	Anon	2022	<div> <div></div> <div>Safety Data Sheet, <div></div></div> <div></div> <div></div> <div>Non-GLP, unpublished</div> <div>Confidential</div> </div>	N	N	Not applicable	SUM	None (new active)
KCA 10/03	Anon	2022	<div> <div></div> <div>Safety Data Sheet, <div></div></div> <div></div> <div></div> <div>Non-GLP, unpublished</div> <div>Confidential</div> </div>	N	N	Not applicable	SUM	None (new active)
KCA 10/04	Anon	2022	<div> <div></div> <div>Safety Data Sheet, <div></div></div> <div></div> <div></div> <div>Non-GLP, unpublished</div> <div>Confidential</div> </div>	N	N	Not applicable	SUM	None (new active)
KCA 10/05	Anon	2022	<div> <div></div> <div>Safety Data Sheet, <div></div></div> <div></div> <div></div> <div>Non-GLP, unpublished</div> <div>Confidential</div> </div>	N	N	Not applicable	SUM	None (new active)

KCA 10/06	Anon	2023	<div><div></div><div>Safety</div><div>Data Sheet,</div><div></div><div></div><div>Non-GLP, unpublished</div><div>Confidential</div></div>	N	N	Not applicable	SUM	None (new active)
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A.5. Methods of Analysis

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
CA 4.1.1/01		2016	Enforcement Analytical Methods of S-2399 Technical Grade Sumika Chemical Analysis Service Ltd., Japan, Study No. GP16057, Sumitomo Chemical Co., Ltd. Report No: TPA-0019. GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.1/02		2018a	Confirmation of Identification of Active Ingredient in S-2399 Technical Grade Sumitomo Chemical Co., Ltd, Japan Study No.: B0127, Report No.: TPA-0064 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
CA 4.1.2/01		2017a	S-2399: Validation of Valent's Method RM-50S, "Determination of Residues of S-2399, 3'-OH-S-2840, 1'-COOH-S-2840-A, and 1'-COOH-S-2840-B in Soil", Valent USA Corporation, USA, Study ID: VP-38934, Sumitomo Chemical Co., Ltd, Report No.: TPA-0028 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.2/02		2017b	S-2399: Validation of Valent's Method RM-50V, "Determination of Residues of S-2399 on Application Verification Pads", Valent USA Corporation, USA, Study No.: VP-38872, Sumitomo Chemical Co., Ltd. Report No. TPA- 0029 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/03		2017	Validation Study for the Determination of S-2399 and its Metabolites 3'-OH- S-2840, 1'-COOH- S-2840A and 1'- COOH-S-2840B in Soil, Eurofins Agroscience Services EcoChem GmbH/Eurofins Agroscience Services Ecotox GmbH, Germany,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No.: S16-05522, Sumitomo Chemical Co., Ltd., Report No.: TPA-0043 GLP, unpublished					
CA 4.1.2/04		2014b	Validation of an Analytical Method for S-2399 Technical Grade in 0.5% Methylcellulose Solution, Sumika Technoservice Corporation, Japan, Study No.: 13003VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0046 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/05		2014e	Validation of Analytical Method for S-2399 Technical Grade (Polyethylene Glycol 400 Solution) on Glass Filters,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			Amendment of final report Sumika Technoservice Corporation, Japan, Study No.: 14002VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0044 GLP, unpublished			been protected or submitted		
CA 4.1.2/06		2014d	Validation of an Analytical Method for S-2399 Technical Grade in Acetone, Sumika Technoservice Corporation, Japan, Study No.: 13004VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0058 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/07		2013	Validation of Analytical	N	Y	The study is necessary for	SUM	None (new active)

			Method for S-2399 TG in the Diet for Rodents, The Institute of Environmental Toxicology, Japan, Study No.: IET 13-5030, Sumitomo Chemical Co., Ltd., Report No.: TPA-0002 GLP, unpublished			the regulatory decision, conducted according to GLP and has not previously been protected or submitted		
CA 4.1.2/08		2014b/2020	Validation of Analytical Method for S-2399 in Dog Plasma, Final Report Amendment The Institute of Environmental Toxicology, Japan, Study No.: IET 14-5074, Sumitomo Chemical Co., Ltd. Report No. TPA-0008	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
CA 4.1.2/09		2014a	Validation of an Analytical Method for S-2399 Technical Grade in DMSO, Sumika Technoservice Corporation, Japan, Study No.: 13001VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0010 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/10		2014c	Validation of an Analytical Method for S-2399 Technical Grade in Corn Oil, Sumika Technoservice Corporation, Japan, Study No.: 14001VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0047	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
CA 4.1.2/11		2015/2020	Validation of Analytical Method for S- 2399 in Mouse Plasma, Final Report Amendment, The Institute of Environmental Toxicology, Japan, Study No.: IET 14- 5052, Sumitomo Chemical Co., Ltd. Report No.: TPA-0009 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/12		2014a/2020	Validation of Analytical Method for S- 2399 in Rat Plasma, Final Report Amendment, The Institute of Environmental Toxicology, Japan, Study	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			No.: IET 14-5051, Sumitomo Chemical Co., Ltd. Report No.: TPA-0005 GLP, unpublished					
CA 4.1.2/013		2014	Validation of Analytical Method for S-2399 Technical Grade in the Dosing Solution, The Institute of Environmental Toxicology, Japan, Study No.: IET 13-5032, Sumitomo Chemical Co., Ltd. Report No.: TPA-0003 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/14		2016	Validation of Analytical Method for 3'-OH-S-2840 in 0.5% Methylcellulose	N	Y	The study is necessary for the regulatory decision, conducted according to	SUM	None (new active)

			Solution, Sumika Technoservice Corporation, Japan, Study No.: 16004VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0045 GLP, unpublished			GLP and has not previously been protected or submitted		
CA 4.1.2/15	■■■■■	2017	3'-OH-S-2840: Validation of an Analytical Method in the Diet for Rodents, The Institute of Environmental Toxicology, Japan, Study No.: IET 17- 5003, Sumitomo Chemical Co., Ltd. Report No.: TPA-0032 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/16	■■■■■	2016	3'-OH-S-2840: Validation of	N	Y	The study is necessary for	SUM	None (new active)

			Analytical Method in DMSO, The Institute of Environmental Toxicology, Japan, Study No.: IET 16-5056, Sumitomo Chemical Co., Ltd. Report No.: TPA-0024 GLP, unpublished			the regulatory decision, conducted according to GLP and has not previously been protected or submitted		
CA 4.1.2/17		2017b	Validation of Analytical Method for 1'-COOH-S-2840 in 0.5% Methylcellulose Solution, Sumika Technoservice Corporation, Japan, Study No.: 16009VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0026 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.2/18		2017a	Validation of Analytical Method for 1'-COOH-S-2840 in DMSO, Sumika Technoservice Corporation, Japan, Study No.: 16007VAL, Sumitomo Chemical Co., Ltd. Report No.: TPA-0025 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/19		2017a	Validation of an Analytical Method for the Determination of three Metabolites of S-2399 (N-des-Me-S-2840, N-des-Me-1'-CH ₂ OH-S-2840A and N-des-Me-1'-CH ₂ OH-S-2840B) in Cereal (Whole Plant and Grain), Potato (Tubers), Grapes and	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Soybean (Seeds) Eurofins Agroscience Services Chem GmbH, Germany Study No. S17- 00277 (SUM- 1701V) Sumitomo Chemical Co., Ltd. Report No. TPA- 0053 GLP, unpublished					
CA 4.1.2/20		2017	Validation of an Analytical Method for the Determination of S-2399 and its Metabolites in Cereal (Whole Plant and Grain), Potato (Tubers), Grapes and Soybean (Seeds) – Amendment No. 1 to Final Report. Eurofins Agroscience Services Chem	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GmbH, Germany Study No. S16-03371 (SUM-1601V) Sumitomo Chemical Co., Ltd. Report No. TPA-0057 GLP, unpublished					
CA 4.1.2/21		2017	S-2399: Validation of Valent's Method RM-50C-1, Determination of Residues of S- 2399, 3-OHS- 2840, 1- CH ₂ OH-S-2840- A, 1-CH ₂ OH-S- 2840-B, DFPA- CONH ₂ , 1- COOH-S-2840- A, and 1-COOH- S-2840-B in Crops (including Conjugated Forms of the Metabolites Converted to their Aglycones)", Valent U.S.A. LLC, USA,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No.:VP-39140, Sumitomo Chemical Co., Ltd., Report No.: 201700135 GLP, unpublished					
CA 4.1.2/22		2018	Storage Stability of S-2399 Metabolites N-des-Me-S-S840, N-des-Me- 1'CH ₂ OH-S-2840A and N-des-Me- 1'CH ₂ OH-S-2840B in Matrices of Plant Origin, Eurofins, France, Study No.: S17-01158(TES- 1702L), Sumitomo Chemical Co., Ltd., Report No.: TPR- 0075 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/23		2018a	Magnitude of the Residue of S-2399 and its Metabolites in Wheat Raw Agricultural Commodity in Northern Europe - 2016	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			TESTAPI, France, Study No.: 256- 2016 (S16-04420- L1) Sumitomo Chemical Co., Ltd., Report No.: TPR- 0076 GLP, unpublished			been protected or submitted		
CA 4.1.2/24		2018	Magnitude of the Residue of S-2399 and its Metabolites in Barley Raw Agricultural Commodity in Northern Europe - 2016 TESTAPI, France, Study No.: 258- 2016 (S16-04422- L1) Sumitomo Chemical Co., Ltd., Report No.: TPR- 0073 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/25		2021a	Magnitude of the residue of S-2399 and its metabolites in wheat Raw Agricultural Commodity in Northern Europe – 2019	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			TESTAPI, France, Study No.: 376- 2019 (S19-02572- L1), Sumitomo Chemical Co., Ltd., Report No.: TPR- 0137 GLP, unpublished			been protected or submitted		
CA 4.1.2/26		2021a	Magnitude of the residue of S-2399 and its metabolites in wheat Raw Agricultural Commodity in Southern Europe - 2019 TESTAPI, France, Study No.: 377-2019 (S19- 02590-L1), Sumitomo Chemical Co., Ltd., Report No.: TPR- 0129 GLP, unpublished	N	Y	Not applicable	SUM	None (new active)

CA 4.1.2/27		2021b	Magnitude of the residue of S-2399 and its metabolites in barley Raw Agricultural Commodity in Southern Europe - 2019 TESTAPI, France, Study No.: 381-2019 (S19-02670-L1), Sumitomo Chemical Co., Ltd., Report No.: TPR-0130 GLP, unpublished	N	Y	Not applicable		None (new active)
CA 4.1.2/28		2017	Magnitude of S-2399 and Metabolites 1'-CH ₂ OH-S-2840 A&B (including conjugate) and 1'-COOH-S-2840 A&B Residues in Laying Hen Tissues and Eggs from a 28-Day Feeding Study Study No. 2815W. Sumitomo Chemical Co., Ltd. Report No: TPR-0015	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
CA 4.1.2/29		2016	Magnitude of S-2399 and Metabolites 1'-CH ₂ OH-S-2840 A&B (including conjugate) and 1'-COOH-S-2840 A&B Residues in Bovine Tissues and Milk from a 28-Day Feeding Study Study No. 2814W. Sumitomo Chemical Co., Ltd. Report No: TPR-0013 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.2/30		2018d	Magnitude of the Residue of S-2399 and its Metabolites in Wheat Processed Fractions in Northern and Southern Europe - 2016, TESTAPI, France, Study No.: 261-2016 (S16-05040-L1), Sumitomo Chemical Co., Ltd., Report No.: TPR-0081 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/31		2018b	Magnitude of the Residue of S-2399 and its Metabolites in Barley Processed Fractions in Northern and Southern Europe - 2016, TESTAPI, France, Study No.: 262-2016 (S16-05042-L1), Sumitomo Chemical Co., Ltd., Report No.: TPR-0082 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.2/32		2018c	Magnitude of the Residue of S-2399 and its Metabolites in Potato Processed Fractions in Northern and Southern Europe – 2016 TESTAPI, France, Study No.: 265-2016 (S16-05526-L1), Sumitomo Chemical Co., Ltd., Report No.: TPR-0084 GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
CA 4.1.2/33		2014	Analytical Method Verification for the Determination of S-2399 TG in Avian Diet Wildlife International, USA, Study No.166C-119 Sumitomo Chemical Co., Ltd. Report No. TPA-0004 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/34		2014a	S-2399 TG - Acute Toxicity Test with Rainbow Trout	Y	Y	The study is necessary for the regulatory	SUM	None (new active)

			<p>(<i>Oncorhynchus mykiss</i>) Under Static Conditions Following OECD Guideline #203, OPPTS Draft Guideline 850.1075, JMAFF 12 NohSan, No. 8147 Fish, Acute Toxicity Test (2-7-1-1) and The Official Journal of the European Communities, L383A, Method C.1, Acute Toxicity for Fish, [REDACTED]</p> <p>Study No.: 13048.6776, Sumitomo Chemical Co., Ltd., Report No. TPW-0006 GLP, unpublished</p>			decision, conducted according to GLP and has not previously been protected or submitted		
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CA 4.1.2/35		2016a	Acute Toxicity Study of S-2399 TG with Guppy (<i>Poecilia reticulata</i>), Study No.: 1603EFAG, Sumitomo Chemical Co., Ltd., Report No. TPW- 0053 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/36		2016a	Acute Toxicity Study of 3'-OH-S- 2840 with Rainbow trout (<i>Oncorhynchus mykiss</i>), Study No.: 1512EFAR, Sumitomo Chemical Co., Ltd., Report No. TPW- 0035 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



CA 4.1.2/37		2016b	Acute Toxicity Study of 1'-COOH- S-2840 with Rainbow trout (<i>Oncorhynchus mykiss</i>), Study No.: 1513EFAR, Sumitomo Chemical Co., Ltd., Report No. TPW- 0036 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/38		2015/2020	Amended Report: Life-Cycle Toxicity Test Exposing Midges (<i>Chironomus dilutus</i>) to S-2399 TG Applied to Sediment Under Static-Renewal Conditions Following EPA Test Methods, Smithers Viscient, USA, Study No.: 12709.6364, Sumitomo Chemical Co., Ltd., Report No. TPW- 0031 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.1.2/39		2021	S-2399 - Fish Short-Term Reproduction Assay with Fathead Minnow (<i>Pimephales promelas</i>) Study No. 13048.7149 Sumitomo Chemical Co., Ltd. Report No: TPW-0137, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/40		2013a	S-2399: Determination of Water Solubility, Harlan Laboratories Ltd., UK, Study No.: 41303367, Sumitomo Chemical Co., Ltd., Report No.: TPP-0001 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/41		2013b	S-2399: Determination of Partition Coefficient (n-Octanol/Water), Harlan Laboratories Ltd., UK, Study No.: 41303719,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			Sumitomo Chemical Co., Ltd., Report No.: TPP-0002 GLP, unpublished			been protected or submitted		
CA 4.1.2/42		2016b	S-2399 TGAI: Determination of Physico-Chemical Properties, Envigo, UK, Study No.: 41501170, Sumitomo Chemical Co., Ltd. Report No.: TPP-0012 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.1.2/43		2021	Report Amendment 1, S-2399 TGAI: Method Validation for Determination of S-2399 in Solvent Solubility Test. Covance Laboratories Ltd., UK, Study No.: 8456378. Sumitomo Chemical Co., Ltd. Report No.: TPA-0085 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.2/01		2016	Validation of the Multi-Residue	N	Y	The study is necessary for	SUM	None (new active)


			Method QuEChERS for the Determination of S- 2399 in Matrices of Plant Origin, Eurofins Agroscience Services Chem GmbH, Germany, Study No.: S16- 03372 (SUM- 1602V), Sumitomo Chemical Co., Ltd., Report No.: TPA- 0027 GLP, unpublished			the regulatory decision, conducted according to GLP and has not previously been protected or submitted		
CA 4.2/02		2017a	Independent Laboratory Validation of the Multi-Residue Method QuEChERS for the Determination of S- 2399 in Matrices of Plant Origin, Eurofins Agroscience Services EcoChem GmbH/ Eurofins Agroscience Services Ecotox GmbH, Germany, Study No.: S17- 03966,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Co., Ltd., Report No.: TPA-0048 GLP, unpublished					
CA 4.2/03		2017b	Validation of the Multi-Residue Method QuEChERS for the Determination of S-2399 in Different Matrices of Animal Origin and Body Fluids – Report Amendment1, Eurofins Agrosience Services EcoChem GmbH/ Eurofins Agrosience Services Ecotox GmbH, Germany, Study No.: S17-03967, Sumitomo Chemical Co., Ltd., Report No.: TPA-0049 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.2/04		2018a	Independent Laboratory Validation of an Analytical Method for the	N	Y	The study is necessary for the regulatory decision, conducted	SUM	None (new active)

			Determination of S-2399 in Matrices of Animal Origin, Using LC/MS/MS, EAG Laboratories GmbH, Germany, Study No.: P 4665 G, Sumitomo Chemical Co., Ltd., Report No.: TPA-0061 GLP, unpublished			according to GLP and has not previously been protected or submitted		
CA 4.2/05		2018a	Extraction Efficiency of the Analytical Method of [¹⁴ C]S-2399 in Various Crops, EAG Laboratories, USA, Study No.: 3031W, Sumitomo Chemical Co., Ltd., Report No.: TPA-0062 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.2/06		2018b	Extraction Efficiency of the Analytical Method of [¹⁴ C]S-2399 in Animal Matrices, EAG Laboratories, USA, Study No.: 3032W,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)




			Sumitomo Chemical Co., Ltd., Report No.: TPA-0063 GLP, unpublished			been protected or submitted		
CA 4.2/07		2017c	Validation of an Analytical Method for the Determination of S-2399 in Ground and Surface Water, Eurofins Agrosience Services EcoChem GmbH / Eurofins Agrosience Services Ecotox GmbH, Germany, Study No.: S17-03968, Sumitomo Chemical Co., Ltd., Report No.: TPA-0050 GLP, Unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

CA 4.2/08		2018b	Independent Laboratory Validation of an Analytical Method for the Determination of S-2399 in Water, Using LC/MS/MS, EAG Laboratories GmbH, Germany, Study No.: P 4664 G, Sumitomo Chemical Co., Ltd., Report No.: TPA-0060 GLP, Unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.2/09		2017	Validation of an Analytical Method for the Determination of S-2399 in Air, EAG Laboratories GmbH, Germany, Study No.: P 4391 G, Sumitomo Chemical Co., Ltd., Report No.: TPA-0052 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
CA 4.2/10		2017b	Validation of the Multi-Residue Method	N	Y	The study is necessary for the regulatory	SUM	None (new active)

			QuEChERS for the Determination of S-2399 in Different Matrices of Animal Origin and Body Fluids – Report Amendment1, Eurofins Agrosience Services EcoChem GmbH/ Eurofins Agrosience Services Ecotox GmbH, Germany, Study No.: S17-03967, Sumitomo Chemical Co., Ltd., Report No.: TPA-0049 GLP, unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
CA 4.2/11		2017	Validation of an Analytical Method for the Determination of Residues of 1'-COOH-S-2840 in Urine Sumitomo Chemical Co., Ltd., Report No.: TPA-0094 GLP, unpublished	N	Y	The study is necessary for this regulatory decision and is eligible for data protection	SUM	None (new active)

KCP 5.1.1/01		2019	Validation of analytical HPLC method for the determination of active substance content in an emulsifiable concentrate (EC) containing S-2399 Walloon Agricultural Research Centre, Belgium Study No.: 24896 Report No.: TPA-0079 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 5.1.2/01		2020	Acute Toxicity to Daphnia magna Smithers ERS Limited, UK Study No.: 3202418 Report No.: TPW-0120 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 5.1.2/02		2020	Acute Toxicity to Daphnia magna Smithers ERS Limited, UK Study No.: 3202417	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has	SUM	None (new active)

			Report No.: TPW-0116 GLP, unpublished			not previously been protected or submitted		
KCP 5.1.2/03		2020	Inhibition of Growth to the Alga <i>Raphidocelis subcapitata</i> (Formerly known as <i>Pseudokirchneriella subcapitata</i>) Smithers ERS Limited UK Study No.: 3202416 Report No.: TPW-0119 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 5.1.2/04		2020	Acute oral and contact Toxicity to the Bumblebee <i>Bombus terrestris</i> L., under Laboratory Conditions Trialcamp S.L.U, Spain Study No.: S19-0042 Report No.: TPW-0121 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 5.1.2/05		2021	S-2399 60 g/L EC: Chronic Oral	Y	Y	The study is necessary for	SUM	None (new active)

			Toxicity Test (10-Day Feeding) to the Honey Bee (<i>Apis mellifera</i> L.) under Laboratory Conditions Trialcamp S.L.U., Spain Study No.: S20-00800 Report No.: TPW-0135 GLP, unpublished			the regulatory decision, conducted according to GLP and has not previously been protected or submitted		
KCP 5.1.2/06		2021	S-2399 60 g/L EC: Honey Bee (<i>Apis mellifera</i> L.) Larval Toxicity Test following Repeated Exposure under laboratory conditions Trialcamp S.L.U., Spain Study No.: S20-00798 Report No.: TPW-0136 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 5.1.2/07	 and 	2020	S-2399 60G/L EC: Effects on Terrestrial (Non-Target) Plants: Seedling Emergence and	N	Y	The study is necessary for the regulatory decision, conducted according to	SUM	None (new active)

			Seedling Growth Test ibacon GmbH, Germany Study No.: 141471086 Report No.: TPW- 0127 GLP, unpublished			GLP and has not previously been protected or submitted		
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A.6. Toxicology and Metabolism Data

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 5.1.1/01	[REDACTED]	2016a	Metabolism of S-2399 in Rats [REDACTED], Study No. 4315, Sumitomo Chemical Co., Ltd. Report No: TPM-0026 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.1.1/02		2016b	Metabolism of S-2399 in Rats (Repeated oral Administration) Study No. 4338. Sumitomo Chemical Co., Ltd. Report No: TPM-0027 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.1.1/03		2017	Comparative <i>in vitro</i> metabolism study of [pyrazolyl-4- ¹⁴ C]S-2399 in rat and human liver microsomes Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. 4370.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No: TPM-0052 GLP, unpublished					
KCA 5.1.1/04		2018	<i>In vitro</i> metabolism of [pyrazolyl-4- ¹⁴ C]S-2399 in dog liver microsomes Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. 4391. Sumitomo Chemical Co., Ltd. Report No: TPM-0056 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.2.1/01		2015a	Acute Oral Toxicity Study of S-2399 Technical Grade in Rats [REDACTED], Study No. 4310 Sumitomo Chemical Co., Ltd. Report No: TPT-0018 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.2.1/02		2017a	Acute Oral Toxicity Study of S-2399 Technical Grade in Rats (Up-and-Down-Procedure) [REDACTED], Study No. 4374 Sumitomo Chemical Co., Ltd. Report No: TPT-0109 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.2.2/01		2015b	Acute Dermal Toxicity Study of S-2399 Technical Grade in Rats [REDACTED], Study No. 4306 Sumitomo Chemical Co., Ltd. Report No: TPT-0013 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.2.3/01		2015c	Acute Inhalation Toxicity Study of S-2399 Technical Grade in Rats [REDACTED], Study No. 4309 Sumitomo Chemical Co., Ltd. Report No: TPT-0015 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.2.4/01		2015a	Primary skin irritation test of S-2399 Technical Grade in rabbits , Study No. 4301 Sumitomo Chemical Co., Ltd. Report No: TPT-0008 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.2.4/02		2025a	In vitro Skin Irritation Test of S-2399 TG using EpiDermTM SIT (EPI-200) Chemicals Evaluation and Research Institute, Japan, Hita (CERI Hita) Study No: F41-0045 Sumitomo Chemical Co., Ltd. Report No: TPT-0211 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.2.5/01		2015b	Primary eye irritation test of S-2399 Technical Grade in rabbits [REDACTED], Study No. 4302 Sumitomo Chemical Co., Ltd. Report No: TPT-0010 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.2.5/02		2025b	In vitro Eye Irritation Test of S-2399 TG using EpiOcular™ EIT (OCL-200) Chemicals Evaluation and Research Institute, Japan, Hita (CERI Hita) Study No: H21-0082 Sumitomo Chemical Co., Ltd. Report No: TPT-0212 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.2.6/01		2015c	<p>Skin sensitization test of S-2399 Technical Grade in guinea pigs (Maximization Test)</p> <p></p> <p>Study No. 4303 Sumitomo Chemical Co., Ltd. Report No: TPT-0011 GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.2.7/01		2016	<p><i>In vitro</i> 3T3 NRU Phototoxicity Study of S-2399 Technical Grade in Cultured Mammalian Cells (Amended Final Report) LSI Medience Corporation, Japan, Study No. B150567.</p>	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No TPT-0037 GLP, unpublished					
KCA 5.3.1/01		2014	One-month Oral Toxicity Study of -2399 in Rats Study No. S1554 Sumitomo Chemical Co., Ltd. Report No: TPT-0100 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.3.2/01		2016	S-2399 Technical Grade: Repeated Dose 90-Day Oral Toxicity Study in Rats. Final report amendment. Study No. 13- 0069 Sumitomo Chemical Co., Ltd. Report No: TPT-0048 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
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KCA 5.3.2/02		2016a	<p>S-2399 Technical Grade: Repeated Dose 90-Day Oral Toxicity Study in Mice. Final report Amendment.</p> <p>[REDACTED], Study No. [REDACTED] 13- 0068 Sumitomo Chemical Co., Ltd. Report No: TPT-0050 GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
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KCA 5.3.2/03	[REDACTED]	2016	S-2399 Technical Grade: Repeated Dose 90-Day Oral Toxicity Study in Dogs [REDACTED] Study No. [REDACTED] 13- 0106 Sumitomo Chemical Co., Ltd. Report No: TPT-0057 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
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KCA 5.3.2/04		2017	<p>S-2399 Technical Grade: Repeated Dose 1-Year Oral Toxicity Study in Dogs</p> <p>, Study No. 14- 0096 Sumitomo Chemical Co., Ltd. Report No: TPT-0076. GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.3.3/01		2015	<p>A 28-Day Repeated Dose Dermal Toxicity Study of S- 2399 Technical Grade in Rats</p> <p>Study No. P140742 Sumitomo Chemical Co., Ltd. Report No: TPT-0022 GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.4.1/01		2014a/2017	Reverse mutation test of S-2399 Technical Grade in bacterial systems. Amendment of final report Sumitomo Chemical Co. Ltd, Japan, Study No. 4289 Sumitomo Chemical Co., Ltd. Report No: TPT-0004 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
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KCA 5.4.1/02		2014b	<i>In Vitro</i> Chromosomal Aberration Test on S-2399 Technical Grade in Chinese Hamster Lung Cells (CHL/IU) Sumitomo Chemical Co. Ltd, Japan, Study No. 4288 Sumitomo Chemical Co., Ltd. Report No: TPT-0005 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.4.1/03		2014	S-2399 TG: Gene Mutation Assay in Chinese Hamster V79 Cells <i>In Vitro</i> (V79/HPRT) Harlan CCR, Germany, Study No. 1601100 Sumitomo Chemical Co., Ltd. Report No: TPT-0002	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 5.4.2/01		2015	Micronucleus Test on S-2399 Technical Grade in CD-1 Mice [REDACTED], Study No. 4290 Sumitomo Chemical Co., Ltd. Report No: TPT-0021 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.5/01, KCA 5.5/02		2017	S-2399 Technical Grade: Combined Chronic Toxicity and Carcinogenicity study in Rat [REDACTED]	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No. [REDACTED] 14-0046 Sumitomo Chemical Co., Ltd. Report No: TPT-0090 GLP, unpublished					
KCA 5.5/03	[REDACTED]	2017	S-2399 Technical Grade: Carcinogenicity study in Mice [REDACTED] Study No. [REDACTED] 14-0047 Sumitomo Chemical Co., Ltd. Report No: TPT-0089. GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.5/04	[REDACTED]	2017a	Study for Mode of Action Analysis for Rat Liver and Thyroid findings by S-2399 Technical Grade	Y	Y	Not applicable	SUM	None (new active)

			 Study No. S1782 Sumitomo Chemical Co., Ltd. Report No: TPT-0092 Non-GLP, unpublished					
KCA 5.5/05		2017b	Study for Mode of Action Analysis for Mouse Liver and Thyroid findings by S- 2399 Technical Grade  Study No. S1767 Sumitomo Chemical Co., Ltd Report No: TPT-0099	Y	Y	Not applicable	SUM	None (new active)

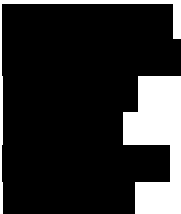

			Non-GLP, unpublished					
KCA 5.6.1/01		2015a	S-2399 Technical Grade: Dose Range-Finding Reproduction Toxicity Study in Rats [REDACTED], Study No. [REDACTED] 13-0080 Sumitomo Chemical Co., Ltd. Report No: TPT-0007 Non-GLP, unpublished	Y	Y	Not applicable	SUM	None (new active)
KCA 5.6.1/02		2017	S-2399 Technical Grade: Reproduction toxicity study in Rats [REDACTED],	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No. [REDACTED] 15-0018 Sumitomo Chemical Co., Ltd. Report No: TPT-0088 GLP, unpublished					
KCA 5.6.2/01	[REDACTED]	2015b	S-2399 Technical Grade: Dose Range- Finding Teratogenicity Study in Rats [REDACTED], Study No. [REDACTED] 13-0087 Sumitomo Chemical Co., Ltd. Report No: TPT-0009 Non-GLP, unpublished	Y	Y	Not applicable	SUM	None (new active)

KCA 5.6.2/02		2017a	S-2399 Technical Grade: Teratogenicity study in Rats Study No. 14-0071 Sumitomo Chemical Co., Ltd. Report No: TPT-0084 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.6.2/03		2017b	S-2399 Technical Grade: Additional Teratogenicity Study in Rats Study No. 16-0018 Sumitomo Chemical Co., Ltd. Report No: TPT-0073 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.6.2/04		2015c	S-2399 Technical Grade: Dose Range- Finding Teratogenicity Study in Rabbits Study No. 13-0088 Sumitomo Chemical Co., Ltd. Report No: TPT-0012 Non-GLP, unpublished	Y	Y	Not applicable	SUM	None (new active)
KCA 5.6.2/05		2015d	S-2399 Technical Grade: Additional Dose Range-Finding Teratogenicity Study in Rabbits	Y	Y	Not applicable	SUM	None (new active)

			Study No. [REDACTED] 14-0031 Sumitomo Chemical Co., Ltd. Report No: TPT-0014 Non-GLP, unpublished					
KCA 5.6.2/06	[REDACTED]	2017c	S-2399 Technical Grade: Teratogenicity study in Rabbits [REDACTED] Study No. [REDACTED] 15-0017 Sumitomo Chemical Co., Ltd. Report No: TPT-0082. GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.6.2/07		2012	Preliminary Prenatal Developmental Toxicity Study in rats with S-2399  Study No. S1767 Sumitomo Chemical Co., Ltd. Report No: TPT-0103. GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.7.1/01		2015	S-2399 Technical Grade: Dose Range-Finding Study for Acute Neurotoxicity Study in Rats 	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)




			Study No. [REDACTED] 14-0107 Sumitomo Chemical Co., Ltd. Report No: TPT-0036 GLP, unpublished					
KCA 5.7.1/02	[REDACTED]	2016b	S-2399 Technical Grade: Acute Oral Neurotoxicity Study in Rats [REDACTED], Study No. [REDACTED] 14-0108 Sumitomo Chemical Co., Ltd. Report No: TPT-0044 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.7.1/03	[REDACTED]	2016	<p>S-2399 Technical Grade: Repeated Dose 90-Day Oral Neurotoxicity Study in Rats</p> <p>[REDACTED]</p> <p>Study No. [REDACTED] 15-0037 Sumitomo Chemical Co., Ltd. Report No: TPT-0058. GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.7.1/04	[REDACTED] & [REDACTED]	2014	<p>Annex: Positive control data of neurotoxicity study</p> <p>[REDACTED]</p> <p>[REDACTED], Sumitomo Chemical Co., Ltd. Report No: TPT-0045 Non-GLP, unpublished</p>	Y	Y	Not applicable	SUM	None (new active)

KCA 5.8.1/01		2025	TPT-0215: Letter of access to BASF data	N	N	-	SUM	None (new active)
KCA 5.8.1/02		2025	TPT-0216: Letter of access to Syngenta data	N	N	-	SUM	None (new active)
KCA 5.8.1.1/01		2017b	Acute Oral Toxicity Study of 3'-OH-S-2840 in Rats Study No. 4361 Sumitomo Chemical Co., Ltd. Report No: TPT-0074 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.1.1/02		2018	3'-OH-S-2840: Repeated Dose 90-Day Oral Toxicity Study in Rats 	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No. [REDACTED] 17-0024 Sumitomo Chemical Co., Ltd. Report No: TPT-0127 GLP, unpublished					
KCA 5.8.1.1/03	[REDACTED]	2017a	3'OH-S-2840: Bacterial Reverse Mutation Test The Institute of Environmental Toxicology, Japan, Study No. IET 16-0064 Sumitomo Chemical Co., Ltd. Report No: TPT-0070 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.1.1/04	[REDACTED]	2017a	3'-OH-S-2840: Gene Mutation Assay in Chinese Hamster V79 Cells <i>In Vitro</i> (V79/HPRT) Envigo CRS GmbH, Germany,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No. 1813701 Sumitomo Chemical Co., Ltd. Report No: TPT-0105 GLP, unpublished					
KCA 5.8.1.1/05		2017b	3'-OH-S-2840: Chromosome Aberration Test in Cultured Mammalian Cells The Institute of Environmental Toxicology, Japan, Study No. IET16-0065 Sumitomo Chemical Co., Ltd. Report No: TPT-0081 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 5.8.1.1/06		2020	<i>In Vitro</i> Micronucleus (MNvit) Test of 3'-OH-S-2840 in Human Lymphoblast Cell Line (TK6) Biosafety Research Centre Inc, Japan. Study No.: J352 (028-225) Sumitomo Chemical Co., Ltd. Report No: TPT-0166 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.1.2/01		2017c	Acute Oral Toxicity Study of 1'-COOH-S-2840 in Rats  Study No. 4369 Sumitomo Chemical Co., Ltd. Report No: TPT-0085	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 5.8.1.2/02		2017	Reverse Mutation test 1'-COOH-S- 2840 in bacterial systems Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. 4366 Sumitomo Chemical Co., Ltd. Report No: TPT-0086 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.1.2/03		2017b	1'-COOH-S- 2840: Gene Mutation Assay In Chinese Hamster V79 Cells <i>In Vitro</i> (V79/HPRT) Envigo CRS GmbH, Germany, Study No. 1813801	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



			Sumitomo Chemical Co., Ltd. Report No: TPT-0104 GLP, unpublished					
KCA 5.8.1.2/04		2017a	<i>In Vitro</i> Chromosomal Aberration test on 1-'COOH-S-2840 in Chinese hamster lung cells (CHL/IU) Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. 4363 Sumitomo Chemical Co., Ltd. Report No: TPT-0107 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)


KCA 5.8.1.2/05		2020	<i>In Vitro</i> Micronucleus (MNvit) Test of 1'-COOH-S- 2840 in Human Lymphoblast Cell Line (TK6) Biosafety Research Centre Inc, Japan. Study No.: J351 (028-224) Sumitomo Chemical Co., Ltd. Report No: TPT-0165 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 5.8.1.3/01		2025	<i>In silico</i> genotoxicity assessment of metabolites of inpyrfluxam Report No. 2006362.UK0 – 6462 Sumitomo Chemical Co., Ltd. Report No: TPT-0228 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)

KCA 5.8.1.3/02	F	2025	In silico genotoxicity assessment of 1'- keto-S-2840 Study No. TPT- 0230 Exponent, Inc. Report No: 2006362.UK0 – 8326 Non-GLP unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 5.8.3/03	F	2025	In silico acute oral toxicity assessment of 1'-keto-S-2840 Study No. TPT- 0229 Exponent, Inc. Report No: 2006362.UK0 - 4836 Non-GLP Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 5.8.1.4/01		2025	<i>In silico</i> general toxicity assessment of metabolites of inpyrfluxam Report No. 2006362.UK0 – 4659 Sumitomo Chemical Co., Ltd. Report No: TPT-0227	N	Y	Not applicable	SUM	None (new active)

			Non-GLP, unpublished					
KCA 5.8.3/01		2017b	Evaluation of effects of S-2399 on human estrogen receptor alpha and human androgen receptor using <i>in vitro</i> reporter gene assay Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. RGA-124, Sumitomo Chemical Co., Ltd. Report No: TPT-0071 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 5.8.3/02		2017c	<i>In vitro</i> steroidogenesis assay of S-2399 with H295R cell line Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. HK002	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



			Sumitomo Chemical Co., Ltd. Report No: TPT-0075 Non-GLP, unpublished			Not applicable		
KCA 5.8.3/04		2019	Evaluation of the effect of S-2399 Technical Grade on human thyroid hormone receptor alpha using <i>in vitro</i> reporter gene assay Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. RGA-147, Sumitomo Chemical Co., Ltd. Report No: TPT-0156 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 5.8.3/05		2020	<i>In vitro</i> inhibition assay of sodium/iodide symporter with S-2399 TG	N	Y	Not applicable	SUM	None (new active)

			Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. S2096, Sumitomo Chemical Co., Ltd. Report No: TPT-0167 Non-GLP, unpublished					
KCA 5.8.3/06		2019	<i>In vitro</i> thyroperoxidase inhibition assay with S-2399TG Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd., Japan, Study No. S2017, Sumitomo Chemical Co., Ltd. Report No: TPT-0168 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 5.8.3/07		2020	Updated Assessment of Endocrine Disrupting potential of Inpyrfluxam (S-2399).	N	Y	Not applicable	SUM	None (new active)

			Exponent International Ltd., UK Report No.: 2006010.UK0-4943 Sumitomo Chemical Co., Ltd. Report No: TPT-0172 Non-GLP, unpublished					
KCP 7.3/01		2020	- Inpyrfluxam 60g/L (V16-7) - In Vitro Absorption through Human Dermatomed Skin using [14C] Inpyrfluxam Dermal Technology Laboratory Ltd., UK, Study No. JV2469 Sumitomo Chemical Co. Ltd, Report No.: TPM-0065 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

A.7. Residue Data



Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 6.1/01	██████████	2018	Storage Stability of S-2399 Metabolites N- des-Me-S-2840, N-des-Me-1'- CH ₂ OH-S-2840A and N-des-Me-1'- CH ₂ OH-S-2840B in Matrices of Plant Origin Eurofins Agroscience Services Chem GmbH, Germany, Study	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			No. S17-01158 (TES-1702L) Sumitomo Chemical Co., Ltd. Report No: TPR-0075 GLP, Unpublished					
KCA 6.1/02		2019	Final report: Storage stability of S-2399 and its metabolites in matrices of plant origin Eurofins Study No: S16-05016 (TES-1614L) Sumitomo Chemical Co., Ltd. Report No: TPR-0093 GLP, Unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.1/03		2019	Final report: Storage stability of S-2399 and its metabolites in processed food matrices of plant origin Eurofins Study No: S18-03229 (TES-1816L)	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No: TPR-0101 GLP, Unpublished					
KCA 6.1/04		2017a	S-2399: Freezer Storage Stability of S-2399 and Metabolites in Crops Valent, USA. LLC, USA. Study No. VP-39115 Sumitomo Chemical Co., Ltd. Report No:, TPR-0067 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.1/05		2017b	S-2399: Freezer Storage Stability of S-2399 and metabolites in Processed Fractions Valent, USA. LLC, USA. Study NO. VP-40066 Sumitomo Chemical Co., Ltd Report No: TPR-0065,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 6.2.1/01	[REDACTED] & [REDACTED]	2016	A Metabolism Study of [¹⁴ C]S-2399 (2 Radiolabels) in Apple (<i>Malus domestica</i>). Amended Final Report2. PTRL West, USA, Study No. 2507W Sumitomo Chemical Co., Ltd. Report No: TPM-0013, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.2.1/02	[REDACTED] & [REDACTED]	2016a	A Metabolism Study of [¹⁴ C]S-2399 (2 Radiolabels) in Soybean (Glycine max). Amended Final Report2. PTRL West, USA, Study No. 2506W Sumitomo Chemical Co., Ltd. Report No: TPM-0015,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 6.2.1/03	[REDACTED] & [REDACTED]	2016	Residues in Corn and Sorghum Crops Grown from Seeds Treated with [phenyl- ¹⁴ C]S-2399 and [pyrazolyl- ¹⁴ C]S-2399 Valent Technical Center, USA Study No. VP-38699 Sumitomo Chemical Co., Ltd. Report No: TPM-0017 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.2.1/04	[REDACTED] & [REDACTED]	2016b	A Metabolism Study of [¹⁴ C]S-2399 (2 Radiolabels) in Rice (<i>Oryza sativa</i> L.) with Foliar Treatment. Amended Final Report. PTRL West, USA, Study No. 2508W Sumitomo	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Chemical Co., Ltd. Report No: TPM-0014, GLP, unpublished					
KCA 6.2.1/05		2016c	A Metabolism Study of [¹⁴ C]S-2399 (2 Radiolabels) in Rice (<i>Oryza sativa</i> L.) with Granular Application. Final Amended Report 2. PTRL West, USA, Study Report 2509W Sumitomo Chemical Co., Ltd. Report No: TPM-0016, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.2.1/06	 &	2017	Residues in Canola Crops Grown from Seeds Treated with [Phenyl- ¹⁴ C]S-2399 and [Pyrazolyl- ¹⁴ C]S-2399	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Valent Technical Center, USA. VP-38998 Sumitomo Chemical Co., Ltd. Report No: TPM-0031 GLP, unpublished					
KCA 6.2.1/07	■■■■	2017	Nature of Residues of [Phenyl- ¹⁴ C]S-2399 and [Pyrazolyl- ¹⁴ C]S-2399 in Potatoes Grown from Treated Seeds Valent Technical Center, USA. Study No. VP-38692 Sumitomo Chemical Co., Ltd. Report No: TPM-0042, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.2.2/01	■■■■■	2016	Metabolism of [¹⁴ C]S-2399 (2 radiolabels) in Laying Hens. Amended Final Report. ■■■■■,	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not	SUM	None (new active)

			<p>Study No. 2453W Sumitomo Chemical Co., Ltd. Report No: TPM-0025. GLP, Unpublished</p>			previously been protected or submitted		
KCA 6.2.3/01	&	2016d	<p>Metabolism of [¹⁴C]S-2399 (2 radiolabels) in the lactating Goat .Amended Final Report.</p> <p>Study No. 2452W Sumitomo Chemical Co., Ltd. Report No: TPM-0024. GLP, Unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.3.1/01		2021a	<p>Magnitude of the residue of S-2399 and its metabolites in wheat. Raw Agricultural Commodity in Northern Europe - 2019</p>	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)




			Testapi, France. Study No. 376-2019 Sumitomo Chemical Co., Ltd. Report No. TPR-0137 GLP, Unpublished					
KCA 6.3.1/02		2021a	Magnitude of the residue of S-2399 and its metabolites in wheat. Raw Agricultural Commodity in Southern Europe - 2019 Testapi, France. Study No. 377-2019 Sumitomo Chemical Co., Ltd. Report No. TPR-0129 GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 6.3.2/01		2018a	Magnitude of the residue of S-2399 and its metabolites in wheat. Raw Agricultural Commodity in	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not	SUM	None (new active)

			Northern Europe – 2016 Testapi, France. Study No. 256-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0076 GLP, Unpublished			previously been protected or submitted		
KCA 6.3.2/02		2018b	Magnitude of the residue of S-2399 and its metabolites in wheat Raw Agricultural Commodity in Southern Europe – 2016 Testapi, France. Study No. 257-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0074 GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 6.3.4/01		2021b	Magnitude of the residue of S-2399 and its metabolites in barley. Raw	N	Y	The study is necessary for the regulatory decision, conducted	SUM	None (new active)

			Agricultural Commodity in Northern Europe - 2019 Testapi, France. Study No. 380-2019 Sumitomo Chemical Co., Ltd. Report No. TPR-0139 GLP, Unpublished			according to GLP and has not previously been protected or submitted		
KCA 6.3.4/02		2021b	Magnitude of the residue of S-2399 and its metabolites in barley. Raw Agricultural Commodity in Southern Europe - 2019 Testapi, France. Study No. 381-2019 Sumitomo Chemical Co., Ltd. Report No. TPR-0130 GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 6.3.5/01		2018a	Magnitude of the residue of S-2399 and its	N	Y	The study is necessary for the regulatory	SUM	None (new active)

			metabolites in barley. Raw Agricultural Commodity in Northern Europe - 2016 Testapi, France. Study No. 258-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0073 GLP, Unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
KCA 6.3.5/02		2018b	Magnitude of the residue of S-2399 and its metabolites in barley. Raw Agricultural Commodity in Southern Europe – 2016 Testapi, France. Study No. 259-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0071 GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)

KCA 6.3.7/01		2018c	Magnitude of the residue of S-2399 and its metabolites in potato Raw Agricultural Commodity in Northern Europe – 2016 Testapi, France. Study No. 263-2016 Sumitomo Chemical Co., Ltd. Report No.TPR-0072 GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 6.3.7/02		2018c	Magnitude of the residue of S-2399 and its metabolites in potato Raw Agricultural Commodity in Southern Europe – 2016 Testapi, France. Study No. 264-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0077	N	Y	Not applicable	SUM	None (new active)



			GLP, Unpublished					
KCA 6.4.1/01		2017	Magnitude of S-2399 and Metabolites 1'-CH ₂ OH-S-2840 A&B (including conjugate) and 1'-COOH-S-2840 A&B Residues in Laying Hen Tissues and Eggs from a 28-Day Feeding Study  Study No. 2815W. Sumitomo Chemical Co., Ltd. Report No: TPR-0015 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.4.2/01	 &	2016	Magnitude of S-2399 and Metabolites 1'-CH ₂ OH-S-2840 A&B (including conjugate) and 1'-COOH-S-2840 A&B Residues in	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been	SUM	None (new active)

			<p>Bovine Tissues and Milk from a 28-Day Feeding Study</p> <p>[REDACTED]</p> <p>Study No. 2814W. Sumitomo Chemical Co., Ltd. Report No: TPR-0013 GLP, unpublished</p>			protected or submitted		
<p>KCA 6.5.1/01</p>	[REDACTED]	2016	<p>[¹⁴C]S-2399 - Nature of Residues in Processed Commodities - High Temperature Hydrolysis Smithers Viscient, USA, Study No. 13048.6947 Sumitomo Chemical Co., Ltd. Report No: TPM-0022 GLP, unpublished</p>	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 6.5.1/02		2018	[¹⁴ C]3'-OH-S-2840: OECD507 Nature of Residues - High Temperature Hydrolysis Smithers Viscient (ESG) Ltd., UK, Study No. 3201987 Sumitomo Chemical Co., Ltd. Report No: TPM-0054 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.5.1/03		2017	[¹⁴ C]1'-CH ₂ OH-S-2840: OECD507 Nature of Residues - High Temperature Hydrolysis Smithers Viscient (ESG) Ltd., UK, Study No. 3201988 Sumitomo Chemical Co., Ltd. Report No: TPM-0055 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 6.5.1/04		2020	[¹⁴ C]1'-COOH-S-2840: OECD507 Nature of Residues - High Temperature Hydrolysis Smithers Viscient (ESG) Ltd., UK, Study No. 3202780 Sumitomo Chemical Co., Ltd. Report No: TPM-0067 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.5.3/01		2018d	Magnitude of the residue of S-2399 and its metabolites in wheat processed fractions in Northern and Southern Europe – 2016 Testapi, France. Study No. 261-2016 Sumitomo Chemical Co., Ltd. Report No. TPR – 0081 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 6.5.3/02		2018d	Magnitude of the residue of S-2399 and its metabolites in barley processed fractions in Northern and Southern Europe – 2016 Testapi, France. Study No. 262-2016 Sumitomo Chemical Co., Ltd. Report No. TPR-0082 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.5.3/03		2018e	Magnitude of the residue of S-2399 and its metabolites in potato processed fractions in northern and southern Europe - 2016. Testapi Study No: 265-2016 Sumitomo Chemical Co., Ltd. Report No: TPR-0084	N	Y	Not applicable	SUM	None (new active)

			GLP, unpublished					
KCA 6.6.1/01		2017	Confined Accumulation of [Phenyl- ¹⁴ C]S-2399 and [Pyrazolyl-4- ¹⁴ C]S-2399 in Rotational Crops Valent Technical Center, USA. Study No. VP-38482, Sumitomo Chemical Co., Ltd. Report No: TPM-0047, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 6.6.2/01		2018e	Rotational field-crops residue study after application of S-2399 to cereal crops in northern and southern Europe – 2016 Testapi, France, Study No. 260-2016 Sumitomo Chemical Co.,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Ltd. Report No: TPR-0080 GLP, unpublished					
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A.8. Environmental Fate and Behaviour

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 7.1.1.1/01	██████	2017	Aerobic Soil Metabolism of [Phenyl-14C]S-2399 and [Pyrazolyl-4-14C]S-2399; Amended report Valent Technical Center, U.S.A. Study No. VP-38556 Sumitomo Chemical Co., Ltd. Report No: TPM-0023, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.1.1/02	██████	2017a	S-2399: Degradation under Aerobic Conditions in Soil Rate studies Valent Technical Center, U.S.A. Study No. VP-38898 Sumitomo Chemical Co., Ltd. Report No: TPM-0044,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 7.1.1.2/01		2017a	S-2399: Anaerobic Soil Metabolism Valent Technical Center, U.S.A. Study No. VP-39081 Sumitomo Chemical Co., Ltd. Report No: TPM-0040, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.1.2/02		2017b	S-2399: Degradation under Anaerobic Conditions in Soil - Rate Studies Valent Technical Center, U.S.A.. Study No. VP-39087 Sumitomo Chemical Co., Ltd. Report No: TPM-0046, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.1.3/01		2014	Photodegradation of [14C]S-2399 in/on Soil by Artificial Sunlight – Amended Report PTRL West, USA, Study No. 2454W Sumitomo Chemical Co., Ltd. Report No: TPM-0005 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



KCA 7.1.2.1.1/01		2017	Aerobic Soil Metabolism of [Phenyl-14C]S-2399 and [Pyrazolyl-4-14C]S-2399; Amended report Valent Technical Center, U.S.A. Study No. VP-38556 Sumitomo Chemical Co., Ltd. Report No: TPM-0023 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.1.1/02		2017a	S-2399: Degradation under Aerobic Conditions in Soil Rate studies Valent Technical Center, U.S.A. Study No. VP-38898 Sumitomo Chemical Co., Ltd. Report No: TPM-0044 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.1.1/03	&	2018	Recalculation of laboratory aerobic soil degradation kinetics for S-2399 and metabolites according to FOCUS (2006, 2014) Guidance Exponent International Ltd., UK Report No. 1403863.UK0-1965	N	Y	Not applicable	SUM	None (new active)

			Sumitomo Chemical Co. Ltd. Report No: TPM-0057 Non-GLP, unpublished					
KCA 7.1.2.1.2/01	██████	2017a	[¹⁴ C]3'-OH-S-2840: Aerobic Soil Metabolism Study Smithers Viscient, UK, Study No. 3201399 Sumitomo Chemical Co., Ltd. Report No: TPM-0033 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.1.2/02	██████	2017b	[¹⁴ C]1'-COOH-S-2840: Aerobic Soil Metabolism Study Smithers Viscient, UK, Study No. 3201400 Sumitomo Chemical Co., Ltd. Report No: TPM-0049 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.1.2/03	██████ & ██████	2023	Recalculation of the laboratory aerobic degradation rate of the metabolites of S-2399 (inpyrfluxam) in soil according to FOCUS Kinetics Guidance Exponent International Ltd., UK	N	Y	Not applicable	SUM	None (new active)

			Report No. 1403863.UK0-1965 Sumitomo Chemical Co. Ltd. Report No: TPM-0057 Non-GLP, unpublished					
KCA 7.1.2.1.3/01		2017a	S-2399: Anaerobic Soil Metabolism Valent Technical Center, U.S.A. Study No. VP-39081 Sumitomo Chemical Co., Ltd. Report No: TPM-0040 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.1.3/02		2017b	S-2399: Degradation under Anaerobic Conditions in Soil - Rate Studies Valent Technical Center, U.S.A.. Study No. VP-39087 Sumitomo Chemical Co., Ltd. Report No: TPM-0046 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.1/01		2017a	S-2399: Terrestrial Field Soil Dissipation of S-2399 on Bare Ground in Mississippi Valent Technical Center, U.S.A.. Study No: V-14-38553	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No: TPR-0031 GLP, unpublished			not previously been protected or submitted		
KCA 7.1.2.2.1/02	██████	2017b	S-2399: Terrestrial Field Soil Dissipation of S-2399 on Bare Ground in California Valent Technical Center, U.S.A.. Study No: V-14-38586 Sumitomo Chemical Co., Ltd. Report No: TPR-0032 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.1/03	██████	2017a	S-2399: Terrestrial Field Soil Dissipation of S-2399 2.84 SC on Bare Ground in North Dakota Valent Technical Center, U.S.A.. Study No: V-14-38603 Sumitomo Chemical Co., Ltd. Report No: TPR-0034 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.1/04	██████	2017c	S-2399: Terrestrial Field Soil Dissipation of S-2399 on Bare Ground in Washington Valent Technical Center, U.S.A.. Study No: V-14-38546	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No: TPR-0053 GLP, unpublished			not previously been protected or submitted		
KCA 7.1.2.2.1/05	██████	2017b	S-2399: Terrestrial Field Soil Dissipation of S-2399 2.84 SC on Bare Ground in Ontario, Canada Valent Technical Center, U.S.A.. Study No: V-14-38593 Sumitomo Chemical Co., Ltd. Report No: TPR-0033 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.1/06	██████ & ██████	2018a	Normalisation of S-2399 DT ₅₀ data from terrestrial field dissipation studies in North America Exponent International Ltd., UK Report No. 1403863.UK0-2381 Sumitomo Chemical Co., Ltd. Report No: TPR-0083 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 7.1.2.2.1/07	██████	2018a	Soil dissipation study after application of S-2399 at four different locations in Europe – 2016/2018.	N	Y	The study is necessary for the regulatory decision, conducted	SUM	None (new active)

			TESTAPI, France. Study Number: 267-2016 Sumitomo Chemical Co., Ltd. Report No: TPR-0085 GLP, unpublished			according to GLP and has not previously been protected or submitted		
KCA 7.1.2.2.1/08		2018b	Normalisation of data from four field studies in Europe and determination of normalised field DT ₅₀ values for S-2399 and metabolites Exponent International Ltd., UK Report No. 1403863.UK0-7449 Sumitomo Chemical Co., Ltd. Report No: TPR-0079 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 7.1.2.2.1/09		2017e	S-2399: Freezer Storage Stability of S-2399, 3'-OH-S-2840, 1'-COOH-S-2840-A, and 1'-COOH-S-2840-B in Soils Valent, U.S.A. LLC Study No: VP-39033, 201700316 Sumitomo Chemical Co., Ltd. Report No: TPR-0064	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



			GLP, unpublished					
KCA 7.1.2.2.1/10	██████	2018	Storage Stability of S-2399 and its metabolites 3'-OH-S-2840, 1'-COOH-S-2840A and 1'-COOH-S-2840B in Soil under Deep Frozen Conditions Eurofins Agrosience Services EcoChem GmbH Study No. S16-04056 Sumitomo Chemical Co., Ltd. Report No: TPR-0088 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.1/11	██████ & ██████	2023	The relevance of North American field dissipation studies on inpyrfluxam to EU conditions. Exponent report No: 2006362.UK0-9770 Non-GLP, Unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 7.1.2.2.1/12	██████ & ██████	2023	Recalculation of the field dissipation/degradation rate of S-2399 (Inpyrfluxam) in soil according to FOCUS Kinetics Guidance. Report Number: 20063620.UK0 – 8865	N	Y	Not applicable	SUM	None (new active)

			Non-GLP Unpublished					
KCA 7.1.2.2.2/01	████████	2018b	Soil accumulation study after application of S-2399 at four different locations in Europe – 2016/2021 (Interim Report) TESTAPI, France Study Number: 268-2016 Sumitomo Chemical Co. Ltd. Report No: TPR-0089 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.2.2.2/02	████████	2023	Soil accumulation study after application of S-2399 at four different locations in Europe – 2016/2021 (Final Report) TESTAPI, France Study Number: 268-2016 Sumitomo Chemical Co. Ltd. Report No: TPR-0090 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.3.1.1/01	████████ &	2017	[14C]S-2399: Adsorption/Desorption in Soil Smithers Viscient, UK, Study No. 3201088 Sumitomo Chemical	N	Y	The study is necessary for the regulatory decision, conducted according to	SUM	None (new active)

			Co., Ltd. Report No: TPM-0018 GLP, unpublished			GLP and has not previously been protected or submitted		
KCA 7.1.3.1.2/01		2017c	[¹⁴ C]1'-COOH-S-2840A and B: Adsorption/Desorption in Soil: Amended Final Report 1. Smithers Viscient, UK, Study No. 3201397 Sumitomo Chemical Co., Ltd. Report No: TPM-0034, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.1.3.1.2/02		2017	[¹⁴ C]3'-OH-S-2840: Adsorption/Desorption in Soil Smithers Viscient, UK, Study No. 3201398 Sumitomo Chemical Co., Ltd. Report No: TPM-0032, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.1.1/01		2016	[¹⁴ C]S-2399: Hydrolysis at pH 4, 7 and 9 Smithers Viscient, USA, Study No. 12709.6427 Sumitomo Chemical Co., Ltd. Report No: TPM-0030	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			GLP, unpublished			been protected or submitted		
KCA 7.2.1.2/01		2015a	Photodegradation of [¹⁴ C]S-2399 in Sterilized pH 7 Buffer by Artificial Sunlight PTRL West, USA, Study No. 2642W Sumitomo Chemical Co., Ltd. Report No: TPM-0008 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.1.2/02		2015b	Photodegradation of [¹⁴ C]S-2399 in Sterilized Natural Water by Artificial Sunlight PTRL West, USA, Study No. 2644W Sumitomo Chemical Co., Ltd. Report No: TPM-0010 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.1.2/03	Adachi, T., Suzuki, Y., & Fujisawa, T.	2021	Photodegradation of an anilide fungicide inpyrfluxam in water and nitrate aqueous solution. Non-GLP	N	Y N	Not applicable	SUM	None (new active)
KCA 7.2.2.1/01		2016	S-2399 TGAI - Determination of the Biodegradability of a Test Substance Based	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

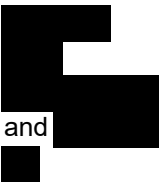


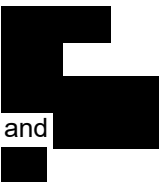


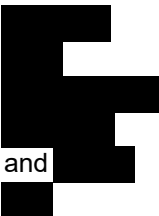

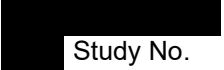

			on OECD Method 301B (CO2 Evolution Test) Smithers Viscient, USA, Study No. 13048.6940 Sumitomo Chemical Co., Ltd. Report No: TPM-0019 GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 7.2.2.2/01		2017	[14C]S-2399: Aerobic Mineralisation in Surface Water Smithers Viscient UK. Study No. 3201629 Sumitomo Chemical Co., Ltd. Report No: TPM-0048 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.2.3/01		2017b	S-2399: Degradation under Aerobic Aquatic Conditions Amended Report 1 Valent Technical Center, U.S.A. Study No. VP-38790 Sumitomo Chemical Co., Ltd. Report No: TPM-0041 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.2.3/02		2017a	S-2399: Degradation under Aerobic Aquatic Conditions – Rate	N	Y	The study is necessary for the regulatory	SUM	None (new active)

			Study; Amended Report 1 Valent Technical Center, U.S.A. Study No. VP-39270 Sumitomo Chemical Co., Ltd. Report No TPM-0050 GLP, unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
KCA 7.2.2.3/03		2017b	[14C]S-2399: Degradation under Anaerobic Aquatic Conditions; Amended Report 1 Valent Technical Center, U.S.A. Study No. VP-38548 Sumitomo Chemical Co., Ltd. Report No: TPM-0036, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 7.2.2.3/04		2023	Recalculation of the degradation rate of S-2399 (inpyrfluxam) in aquatic systems according to FOCUS Kinetics Guidance Version 1.1 Exponent international Ltd. The Lenz, Hornbeam Business park, Harrogate. Report No. 20063620.UK0 – 538	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Non- GLP, unpublished					
KCA 7.3.1/01	[REDACTED] & [REDACTED]	2017	S-2399: Stability in Air Exponent International Ltd. Report No. 1403863.UK0-0889 Sumitomo Chemical Co., Ltd. Report No: TPP-0025 non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCP 9.2.4/01	[REDACTED] & [REDACTED]	2023	Predicted Environmental Concentrations of Inpyrfluxam and its metabolites in groundwater in the UK using the FOCUS PEARL 5.5.5, FOCUS PELMO 6.6.4 and FOCUS MACRO 5.5.4 models Exponent International Ltd., UK, Report No. 1403863.UK0-0893 Sumitomo Chemical Co. Ltd Non-GLP, unpublished	N	N	Not applicable	SUM	None (new active)

A.9. Ecotoxicological Data




Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate Study Y/N	Data Protection Claimed Y/N	Justification if Data Protection is claimed	Owner	Previous evaluation
KCA 8.1.1.1/01	[REDACTED] & [REDACTED]	2014	S-2399 TG: An Acute Oral Toxicity Study With The Northern Bobwhite [REDACTED] Study No. 166-208 Sumitomo Chemical Co., Ltd. Report No: TPW-0001, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.1.1.1/02	[REDACTED] & [REDACTED]	2016	S-2399: An Acute Oral Toxicity Study with the Mallard [REDACTED] Study No. 263B-178 Sumitomo Chemical Co., Ltd.	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)


			Report No: TPW-0040, GLP, unpublished			been protected or submitted		
KCA 8.1.1.2/01	 and 	2014a	S-2399 TG: A Dietary LC50 Study with the Northern Bobwhite  , Study No. 166-206 Sumitomo Chemical Co., Ltd. Report No: TPW-0008, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.1.1.2/02	 and 	2014b	S-2399 TG: A Dietary LC50 Study with the Mallard  , Study No. 166-207 Sumitomo Chemical Co., Ltd. Report No: TPW-0009, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.1.1.2/03	 and 	2017	S-2399: A Dietary LC50 Study with the Zebra Finch  Study No. 263-173A,  Report No. 201700146	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			Sumitomo Chemical Co., Ltd. Report No TPW-0071, GLP, unpublished			been protected or submitted		
KCA 8.1.1.3/01	and [REDACTED]	2015a	S-2399 TG: A Reproduction Study with the Northern Bobwhite [REDACTED], Study No. 166-214 Sumitomo Chemical Co., Ltd. Report No: TPW-0018, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.1.1.3/02	and [REDACTED]	2015b	S-2399 TG: A Reproduction Study with the Mallard [REDACTED], Study No. 166-215 Sumitomo Chemical Co., Ltd. Report No: TPW-0019, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.1.4/01	[REDACTED]	2021a	S-2399 - Amphibian Metamorphosis Assay with African Clawed Frog (<i>Xenopus laevis</i>)	Y	Y	The study is necessary for the regulatory decision, conducted according to	SUM	None (new active)

			<p>Study No. 13048.7147 Sumitomo Chemical Co., Ltd. Report No: TPW-0138, GLP, unpublished</p>			GLP and has not previously been protected or submitted		
KCA 8.1.5/01	et al.,	2021	<p>Updated Assessment of Endocrine Disrupting potential of Inpyrfluxam (S-2399). Exponent International Ltd., UK Report No.: 2006010.UK0-3645 Sumitomo Chemical Co., Ltd. Report No: TPT-0173 Non-GLP, unpublished</p>	N	N	Not applicable	SUM	None (new active)
KCA 8.2.1/01		2014a	<p>S-2399 TG - Acute Toxicity Test with Rainbow Trout (<i>Oncorhynchus mykiss</i>) Under Static Conditions Following OECD Guideline #203, OPPTS Draft Guideline 850.1075, JMAFF 12 NohSan, No.8147 Fish, Acute Toxicity Test</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)


			(2-7-1-1) and The Official Journal of the European Communities, L383A, Method C.1, Acute Toxicity for Fish [REDACTED], Study No. 13048.6776 Sumitomo Chemical Co., Ltd. Report No: TPW-0006, GLP, unpublished					
KCA 8.2.1/02	[REDACTED]	2014b	S-2399 TG - Acute Toxicity Test with Bluegill Sunfish (<i>Lepomis macrochirus</i>) Under Static Conditions Following OECD Guideline #203, OPPTS Draft Guideline 850.1075, JMAFF 12 NohSan, No. 8147 Fish, Acute Toxicity Test (2-7-1-1) and The Official Journal of the European Communities, L383A, Method C.1, Acute Toxicity for Fish	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			 Study No. 13048.6806 Sumitomo Chemical Co., Ltd. Report No: TPW-0003, GLP, unpublished					
KCA 8.2.1/03		2014c	S-2399 TG - Acute Toxicity Test with Fathead Minnow (<i>Pimephales promelas</i>) Under Static Conditions Following OECD Guideline #203, OPPTS Draft Guideline 850.1075, JMAFF 12 NohSan, No. 8147 Fish, Acute Toxicity Test (2-7-1- 1) and The Official Journal of the European Communities, L383A, Method C.1, Acute Toxicity for Fish  Study No. 13048.6777 Sumitomo	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)




			Chemical Co., Ltd. Report No: TPW-0004, GLP, unpublished					
KCA 8.2.1/04		2014d	S-2399 TG - Acute Toxicity Test with Common Carp (<i>Cyprinus carpio</i>) Under Static Conditions Following OECD Guideline #203, OPPTS Draft Guideline 850.1075, JMAFF 12 NohSan, No. 8147 Fish, Acute Toxicity Test (2-7-1-1) and The Official Journal of the European Communities, L383A, Method C.1, Acute Toxicity for Fish  Study No. 13048.6778 Sumitomo Chemical Co., Ltd. Report No: TPW-0005, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 8.2.1/05		2014e	<p>S-2399 TG: Acute Toxicity to Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Under Static Conditions, Following OCSP Draft Guideline 850.1075 and OECD Guideline #203</p> <p>Study No. 12709.6360 Sumitomo Chemical Co., Ltd. Report No: TPW-0014, GLP, unpublished</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.1/06		2016c	<p>Acute Toxicity Study of S-2399 TG with Guppy (<i>Poecilia reticulata</i>)</p> <p>Study No. 1603EFAG Sumitomo Chemical Co., Ltd. Report No: TPW-0053.</p>	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 8.2.1/07	██████	2016a	Acute Toxicity Study of S-2399 TG with Japanese medaka (<i>Oryzias latipes</i>) ██████████████ Study No. 1603EFAM Sumitomo Chemical Co., Ltd. Report No: TPW- 0054. GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.1/08	██████	2016b	Acute Toxicity Study of S-2399 TG with Zebrafish (<i>Danio rerio</i>) ██████████████ Study No. 1603EFAZ Sumitomo Chemical Co., Ltd. Report No: TPW- 0055. GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.1/09	██████ &	2017	Species Sensitivity Distribution and	N	Y	Not applicable	SUM	None (new active)

			Hazard Concentration (5%) calculations for S- 2399 TG, using LC50 values Exponent Internatonal Ltd, UK. Report No.: 1403863.UK0-7036 Sumitomo Chemical Co., Ltd. Report No: TPW- 0087 Non-GLP, unpublished					
KCA 8.2.1/10		2016a	Acute Toxicity Study of 3'-OH-S- 2840 with Rainbow trout (<i>Oncorhynchus mykiss</i>)  Study No. 1512EFAR Sumitomo Chemical Co., Ltd. Report No: TPW- 0035, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.1/11		2016b	Acute Toxicity Study of 1'-COOH- S-2840 with Rainbow trout	Y	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

			(<i>Oncorhynchus mykiss</i>) [REDACTED], Study No. 1513EFAR Sumitomo Chemical Co., Ltd. Report No: TPW-0036, GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 8.2.2.1/01	[REDACTED]	2014	S-2399 TG - Early Life-Stage Toxicity Test with Fathead Minnow, <i>Pimephales promelas</i> , Following OECD Guideline #210 and OPPTS Draft Guideline 850.1400 [REDACTED] Study No. 13048.6781 Sumitomo Chemical Co., Ltd. Report No: TPW-0012, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.2.1/02	[REDACTED]	2017	S-2399 T.G. - Early Life-Stage Toxicity Test with	Y	Y	The study is necessary for the regulatory	SUM	None (new active)

			Sheepshead Minnow, <i>Cyprinodon variegatus</i>  Study No. 12709.6373 Valent Report No. 201700212 Sumitomo Chemical Co., Ltd. Report No: TPW-0085 GLP, unpublished			decision, conducted according to GLP and has not previously been protected or submitted		
KCA 8.2.2.3/01		2015/2020	Amended Document [14C]S-2399 - Flow-Through Bioconcentration and Metabolism Study with Bluegill Sunfish (<i>Lepomis macrochirus</i>)  Study No. 13048.6863 Sumitomo Chemical Co., Ltd. Report No: TPM-0011, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



KCA 8.2.3/01	██████████	2021b	S-2399 - Fish Short-Term Reproduction Assay with Fathead Minnow (<i>Pimephales promelas</i>) ██████████ Study No. 13048.7149 Sumitomo Chemical Co., Ltd. Report No: TPW-0137, GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.3/02	██████████ et al.	2021	Updated Assessment of Endocrine Disrupting potential of Inpyrfluxam (S-2399). Exponent International Ltd., UK Report No.: 2006010.UK0-3645 Sumitomo Chemical Co., Ltd. Report No: TPT-0173 Non-GLP, unpublished	N	N	Not applicable	SUM	None (new active)
KCA 8.2.4.1/01	██████████	2014f	S-2399 TG - Acute Toxicity to Water Fleas (<i>Daphnia magna</i>) Under Static Conditions, Following OECD	N	Y	The study is necessary for the regulatory decision, conducted according to	SUM	None (new active)

			Guideline #202, OPPTS Draft Guideline 850.1010, JMAFF 12 NohSan, No. 8147 Daphnia Acute Immobilization Test (2-7-2-1) and The Official Journal of the European Communities L383A, Method C.2, Acute toxicity for Daphnids Smithers Viscient, USA, Study No. 13048.6779 Sumitomo Chemical Co., Ltd. Report No: TPW-0002, GLP, unpublished			GLP and has not previously been protected or submitted		
KCA 8.2.4.2/01		2014g	S-2399 TG: Acute Toxicity to Mysids (<i>Americamysis bahia</i>) Under Static Conditions, Following OCSPD Draft Guideline 850.1035 Smithers Viscient, USA,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Study No. 12709.6361 Sumitomo Chemical Co., Ltd. Report No: TPW- 0013, GLP, unpublished					
KCA 8.2.5.1/01		2014h	S-2399 TG - Full Life-Cycle Toxicity Test with Water Fleas, <i>Daphnia</i> <i>magna</i> , Under Static-Renewal Conditions, Following OECD Guideline #211 and OPPTS Draft Guideline 850.1300, JMAFF 12 NohSan, No. 8147 <i>Daphnia</i> Reproduction Test (2-7-2-3) and The Official Journal of the European Communities L383A, Method C.20, <i>Daphnia</i> <i>magna</i> Reproduction Test Smithers Viscient, USA, Study No. 13048.6780 Sumitomo Chemical Co., Ltd. Report No: TPW- 0007, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCA 8.2.5.2/01		2016/2020	Amended Report; S-2399 T.G. - Life- Cycle Toxicity Test with Mysids (<i>Americamysis bahia</i>) Smithers Viscient, USA, Study No. 12709.6374 Sumitomo Chemical Co., Ltd. Report No: TPW- 0041, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.5.4/01		2015/2020	Amended Report; Life-Cycle Toxicity Test Exposing Midges (<i>Chironomus dilutus</i>) to S-2399 TG Applied to Sediment Under Static-Renewal Conditions Following EPA Test Methods Smithers Viscient, USA, Study No. 12709.6364 Sumitomo Chemical Co., Ltd. Report No: TPW- 0031,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 8.2.5.4/02		2016	42-Day Toxicity Test Exposing Freshwater Amphipods (<i>Hyalella azteca</i>) to S-2399 TG Applied to Sediment Under Static-Renewal Conditions Following EPA Test Methods Smithers Viscient, USA, 12709.6365 Sumitomo Chemical Co., Ltd. Report No: TPW-0034, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.5.4/03		2017	S-2399 - 28-Day Toxicity Test Exposing Estuarine Amphipods (<i>Leptocheirus plumulosus</i>) to a Test Substance Applied to Sediment Following EPA Test Methods Smithers Viscient, USA, Study No. 12709.6366	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Valent Report No. 201700198 Sumitomo Chemical Co., Ltd. Report No: TPW- 0086 GLP, unpublished					
KCA 8.2.6.1/01		2015a	S-2399 T.G. - 96- Hour Toxicity Test with the Freshwater Green Alga, <i>Pseudokirchneriella subcapitata</i> Smithers Viscient, USA, Study No. 13048.6860 Sumitomo Chemical Co., Ltd. Report No: TPW- 0017, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.6.2/01		2015b	S-2399 TG: Toxicity Test with the Freshwater Diatom, <i>Navicula pelliculosa</i> Smithers Viscient, USA, Study No. 12709.6370 Sumitomo Chemical Co., Ltd. Report No: TPW- 0020,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			GLP, unpublished					
KCA 8.2.6.2/02		2015c	S-2399 TG: Toxicity Test with the Freshwater Cyanobacterium, <i>Anabaena flos-aquae</i> Smithers Viscient, USA, Study No. 12709.6369 Sumitomo Chemical Co., Ltd. Report No: TPW-0033, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.6.2/03		2015d	S-2399 TG: Toxicity Test with the Marine Diatom, <i>Skeletonema costatum</i> Smithers Viscient, USA, Study No. 12709.6371 Sumitomo Chemical Co., Ltd. Report No: TPW-0030, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.2.7/01		2016	S-2399 TG: 7-Day Toxicity Test with Duckweed (<i>Lemna gibba</i>)	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)



			Smithers Viscient, USA, Study No. 12709.6368 Sumitomo Chemical Co., Ltd. Report No: TPW-0022, GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 8.2.8/01		2016	S-2399 TG: Acute Toxicity to Eastern Oyster (<i>Crassostrea virginica</i>) Under Flow-Through Conditions Following OCSP Guideline 850.1025 Smithers Viscient, USA, Study No. 12709.6367 Sumitomo Chemical Co., Ltd. Report No: TPW-0021, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.3.1.1.1/01 and KCA 8.3.1.1.2/01		2015	Effects of S-2399 TG (Acute Contact and Oral) on Honey Bees (<i>Apis mellifera</i> L.) in the Laboratory Ibacon, Germany,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has	SUM	None (new active)

			Study No. 94951035 Sumitomo Chemical Co., Ltd. Report No: TPW- 0015, GLP, unpublished			not previously been protected or submitted		
KCA 8.3.1.1.1/02 and KCA 8.3.1.1.2/02		2016	S-2399 TG: Effects (Acute Contact and Oral) on Bumble Bees (<i>Bombus terrestris</i> L.) in the Laboratory Ibacon, Germany, Study No. 113911105 Sumitomo Chemical Co., Ltd. Report No: TPW- 0060 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.3.1.3/01		2017	S-2399: Acute Survival of Honey Bee Larvae, <i>Apis Mellifera</i> L., during an In Vitro Exposure Smithers Viscient, USA, Study No. 12709.6372 Sumitomo Chemical Co., Ltd.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)




			Report No: TPW-0066, GLP, unpublished					
KCA 8.4/01		2015	Acute Toxicity of S-2399 TG to the Earthworm <i>Eisenia fetida</i> in Artificial Soil Ibacon, Germany, Study No. 94951021 Sumitomo Chemical Co., Ltd. Report No: TPW-0016, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.4.1/01		2016a	S-2399 TG: Effects on Reproduction and Growth of Earthworms <i>Eisenia fetida</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113911022 Sumitomo Chemical Co., Ltd. Report No: TPW-0052. GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.4.1/02		2016a	3'-OH-S-2840: Effects on Reproduction and Growth of	N	Y	The study is necessary for the regulatory decision,	SUM	None (new active)

			Earthworms <i>Eisenia fetida</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113861022 Sumitomo Chemical Co., Ltd. Report No: TPW-0050. GLP, unpublished			conducted according to GLP and has not previously been protected or submitted		
KCA 8.4.1/03		2016b	1'-COOH-S-2840: Effects on Reproduction and Growth of Earthworms <i>Eisenia fetida</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113871022 Sumitomo Chemical Co., Ltd. Report No: TPW-0058. GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.4.2/01		2016b	S-2399 TG: Effects on Reproduction of the Collembola <i>Folsomia candida</i> in Artificial Soil with 5% Peat Ibacon, Germany,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously	SUM	None (new active)

			Study No. 113911016 Sumitomo Chemical Co., Ltd. Report No: TPW- 0044, GLP, unpublished			been protected or submitted		
KCA 8.4.2/02		2016c	3'-OH-S-2840: Effects on Reproduction of the Collembola <i>Folsomia candida</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113861016 Sumitomo Chemical Co., Ltd. Report No: TPW- 0043, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.4.2/03		2016d	1'-COOH-S-2840: Effects on Reproduction of the Collembola <i>Folsomia candida</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113871016 Sumitomo Chemical Co., Ltd.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Report No: TPW-0051, GLP, unpublished					
KCA 8.4.2/04		2016c	S-2399 TG: Effects on Reproduction of the Predatory Mite <i>Hypoaspis aculeifer</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113911089 Sumitomo Chemical Co., Ltd. Report No: TPW-0042, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.4.2/05		2016e	3'-OH-S-2840: Effects on Reproduction of the Predatory Mite <i>Hypoaspis aculeifer</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113861089 Sumitomo Chemical Co., Ltd. Report No: TPW-0045, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)



KCA 8.4.2/06		2016f	1'-COOH-S-2840: Effects on Reproduction of the Predatory Mite <i>Hypoaspis aculeifer</i> in Artificial Soil with 5% Peat Ibacon, Germany, Study No. 113871089 Sumitomo Chemical Co., Ltd. Report No: TPW-0048, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.5/01		2016a	S-2399 TG: Effects on the Activity of the Soil Microflora in the Laboratory Ibacon, Germany, Study No. 113911080 Sumitomo Chemical Co., Ltd. Report No: TPW-0061 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.5/02		2016b	3'-OH-S-2840: Effects on the Activity of the Soil Microflora in the Laboratory (Nitrogen Transformation) Ibacon, Germany,	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has	SUM	None (new active)

			Study No. 113861080 Sumitomo Chemical Co., Ltd. Report No: TPW- 0046, GLP, unpublished			not previously been protected or submitted		
KCA 8.5/03		2016c	1'-COOH-S-2840: Effects on the Activity of the Soil Microflora in the Laboratory(Nitrogen Transformation) Ibacon, Germany, Study No. 113871080 Sumitomo Chemical Co., Ltd. Report No: TPW- 0047, GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCA 8.7/01		2016a	Evaluation of Fungicidal Activity of 3'-OH-S-2840, 1'-COOH-S-2840 and S-2399 Sumitomo Chemical Co., Ltd. Report No.TPG- 0001 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 8.7/02		2016b	Evaluation of Herbicidal Activity	N	Y	Not applicable	SUM	None (new active)

			of 3'-OH-S-2840, 1'-COOH-S-2840 and S-2399 Sumitomo Chemical Co., Ltd. Report No.TPG- 0002 Non-GLP, unpublished					
KCA 8.7/03		2016c	Evaluation of Insecticidal Activity of 3'-OH-S-2840, 1'-COOH-S-2840 and S-2399 Sumitomo Chemical Co., Ltd. Report No.TPG- 0003 Non-GLP, unpublished	N	Y	Not applicable	SUM	None (new active)
KCA 8.8/01		2018	S-2399 –Activated Sludge Respiration Inhibition Test Following OECD Guideline 209 Smithers Viscient, Study No. 13048.7112 Sumitomo Chemical Co., Ltd. Report No: TPW- 0088 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

KCP 10.2.1/01		2020a	S-2399 6 EC: Fish, Acute Toxicity Test Study No. 3202418 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0120 GLP, unpublished	Y	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.2.1/02		2020b	S-2399 6 EC: Acute Toxicity to <i>Daphnia magna</i> Smithers ERS Limited Study No. 3202417 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0116 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.2.1/03		2020c	S-2399 6 EC: Inhibition of Growth to the Alga <i>Raphidocelis subcapitata</i> (Formerly known as <i>Pseudokirchneriella subcapitata</i>) Smithers ERS Limited Study No. 3202416	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0119 GLP, unpublished					
KCP 10.3.1.1.1 /01 and KCP 10.3.1.1.2/01		2019	S-2399 60 g/L EC: Acute Oral and Contact Toxicity to the Honey Bee, <i>Apis mellifera</i> L., under Laboratory Conditions Eurofins Scientific Study No. S19- 00421 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0107 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.3.1.1.1 /02 and KCP 10.3.1.1.2/02		2020	S-2399 60 g/L EC: Acute oral and contact Toxicity to the Bumblebee <i>Bombus terrestris</i> L., under Laboratory Conditions Eurofins Scientific Study No. . S19- 00422	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0121 GLP, unpublished					
KCP 10.3.1.2/01		2021a	S-2399 60 g/L EC: Chronic Oral Toxicity Test (10- Day Feeding) to the Honey Bee (<i>Apis mellifera</i> L.) under Laboratory Conditions Eurofins Scientific Study No. S20- 00800 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0135 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.3.1.3/01		2021b	S-2399 60 g/L EC: Honey Bee (<i>Apis mellifera</i> L.) Larval Toxicity Test following Repeated Exposure under laboratory conditions Eurofins Scientific Study No. S20- 00798	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0136 GLP, unpublished					
KCP 10.3.2.1/01		2019a	S-2399 60G/L EC: Effects on the Parasitoid <i>Aphidius rhopalosiphi</i> in the Laboratory – Dose Response Test Ibacon GmbH Study No. 141471001 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW- 0106 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.3.2.1/02		2019b	S-2399 60G/L EC: Effects on the Predatory Mite <i>Typhlodromus pyri</i> in the Laboratory – Dose Response Test Ibacon GmbH Study No. 141471063 Sumitomo Chemical Agro Europe S.A.S.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Report No. TPW-0105 GLP, unpublished					
KCP 10.4.1.1/01		2019a	S-2399 60 g/L EC: Effects on Reproduction and Growth of Earthworms <i>Eisenia andrei</i> in Artificial Soil incl. 1st Amendment Ibacon, Germany Study No. 141471022 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW-0108 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.4.2.1/01		2019b	S-2399 60G/L EC: Effects on Reproduction of the Predatory Mite <i>Hypoaspis aculeifer</i> in Artificial Soil incl. 1st Amendment Ibacon, Germany Study No. 141471089 Sumitomo Chemical Agro Europe S.A.S.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Report No. TPW-0109 GLP, unpublished					
KCP 10.4.2.1/02	████████	2019c	S-2399 60G/L EC: Effects on Reproduction of the Collembola <i>Folsomia candida</i> in Artificial Soil incl. 1st Amendment Ibacon, Germany Study No. 141471016 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW-0110 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)
KCP 10.6.2/01	████████ and ████████	2020a	S-2399 60G/L EC: Effects on Terrestrial (Non-Target) Plants: Seedling Emergence and Seedling Growth Test Ibacon, Germany Study No. 141471086 Sumitomo Chemical Agro Europe S.A.S.	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

			Report No. TPW-0127 GLP, unpublished					
KCP 10.6.2/02	██████ and ██████	2020b	S-2399 60G/L EC: Effects on Terrestrial (Non-Target) Plants: Vegetative Vigour Test Ibacon, Germany Study No. 141471087 Sumitomo Chemical Agro Europe S.A.S. Report No. TPW-0117 GLP, unpublished	N	Y	The study is necessary for the regulatory decision, conducted according to GLP and has not previously been protected or submitted	SUM	None (new active)

Further information

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