



Status of Conditional
Registrations under
FIFRA sec.3(c)(7)(C)
from 2000 through 2020

(August 2020)

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Ammonium Carbamate	AD	2/24/2014	1. Green Algae Toxicity Study	11/24/2014	49496201	Satisfied	10/24/2014	
Bethoxazin	AD	6/6/2006	1. Fish Acute Toxicity Test, Freshwater and Marine	9/30/2006	46939003	Cancelled	9/20/2006	Cancelled July 2011
<i>Bethoxazin</i>	AD	6/6/2006	2. Daphnid Chronic Toxicity Test	9/30/2006	46969001	Cancelled	9/20/2006	Cancelled July 2011
<i>Bethoxazin</i>	AD	6/6/2006	3. 90-Day Inhalation Toxicity	4/30/2007	Waiver requested	Cancelled	N/A	Cancelled July 2011
Boric Acid	AD	9/27/2007	1. Seedling Emergence, Tier II	6/1/2008	47675201	Satisfied	2/13/2009	
<i>Boric Acid</i>	AD	9/27/2007	2. Vegetative Vigor, Tier II	6/1/2008	47675201	Satisfied	2/13/2009	
<i>Boric Acid</i>	AD	9/27/2007	3. Duckweed Study	6/1/2008	47675202	Satisfied	2/13/2009	
<i>Boric Acid</i>	AD	9/27/2007	4. Algal Toxicity, Tiers I and II	6/1/2008	47675203	Satisfied	2/13/2009	
<i>Boric Acid</i>	AD	9/27/2007	5. Fish Acute Toxicity Test, Freshwater and Marine	9/28/2008	47425202	Satisfied	5/15/2008	
<i>Boric Acid</i>	AD	9/27/2007	6. Mysid Acute Toxicity Test	9/28/2008	47425204	Satisfied	5/15/2008	
<i>Boric Acid</i>	AD	9/27/2007	7. Acute Embryo larvae	9/28/2008	47425201	Satisfied	5/15/2008	
<i>Boric Acid</i>	AD	9/27/2007	8. Green Algae Study	6/1/2008	47425203	Satisfied	5/15/2008	
<i>Boric Acid</i>	AD	9/27/2007	9. Whole Sediment Freshwater	9/28/2008	Waiver requested	Waived	N/A	
<i>Boric Acid</i>	AD	9/27/2007	10. Whole Sediment Marine	9/28/2008	Waiver requested	Waived	N/A	
<i>Boric Acid</i>	AD	9/27/2007	11. Leaching Study	11/28/2008	Waiver requested	Waived	N/A	
Cetyl pyridinium chloride	AD	3/5/2009	1. Ready Biodegradability	3/6/2010	49233702	Satisfied	9/26/2013	
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	2. Sediment and Soil Adsorption/Desorption Isotherm	3/6/2010	48012103	Satisfied	3/5/2010	
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	3. Activated Sludge Sorption Isotherm	3/6/2010	49233701	Satisfied	9/26/2013	
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	4. Aerobic Degradation	3/6/2010	48012105	Satisfied	3/5/2010	
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	5. Algal Toxicity, Tiers I and II	3/6/2010	48012106	Satisfied	3/5/2010	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	6. Activated Sludge Sorption Isotherm	3/6/2010	48012107	Satisfied	3/5/2010	
<i>Cetyl pyridinium chloride</i>	AD	3/5/2009	7. Bacterial Reverse Mutation Test	3/6/2010	48012108	Satisfied	3/5/2010	
Copper Carbonate, basic (Polymeric Betaine)	AD	10/31/2006	1. Mouse Carcinogenicity Study	10/31/2009	47667001	Satisfied	2/9/2009	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	2. Skin Sensitization	10/31/2007	Waiver requested	Waived	N/A	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	3. Hydrolysis		47348101	Satisfied	2/15/2008	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	4. Aerobic Soil Metabolism	10/31/2007	47757601	Satisfied	5/22/2009	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	5. Avian Acute Oral	10/31/2007	46768502	Satisfied	2/24/2006	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	6. Fish Acute Toxicity Test, Freshwater and Marine	10/31/2007	Waiver requested	Waived	N/A	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	7. Aquatic Invertebrate Acute Toxicity, Test, Freshwater Daphnids	10/31/2007	Waiver requested	Waived	N/A	
<i>Copper Carbonate, basic (Polymeric Betaine)</i>	AD	10/31/2006	8. Other (fixation)		47484102, 47484101, 47497001	Satisfied	7/22/2008 and 8/5/2208	
DDAC	AD	5/14/2003	1. 21/28-Day Dermal Toxicity	5/14/2004	47045101	Satisfied	2/1/2007	
<i>DDAC</i>	AD	5/14/2003	2. Surface residue wipe study	5/14/2004	46764002	Satisfied	2/21/2006	
<i>DDAC</i>	AD	5/14/2003	3. Fish Early-Life Stage Toxicity Test	5/14/2004	46914401	Satisfied	8/18/2006	
<i>DDAC</i>	AD	5/14/2003	4. Fish BCF	5/14/2004	45834101	Satisfied	1/9/2003	
<i>DDAC</i>	AD	5/14/2003	5. Whole Sediment Acute Toxicity Invertebrates, Freshwater	5/14/2004	45821701	Satisfied	12/20/2002	
<i>DDAC</i>	AD	5/14/2003	6. Whole Sediment Acute Toxicity Invertebrates, Marine	5/14/2004	45821702	Satisfied	12/20/2002	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
DDAC	AD	5/14/2003	7. Honey bee toxicity study	5/14/2004	Waiver requested	Waived	N/A	
DDAC	AD	5/14/2003	8. Seedling Emergence, Tier II	5/14/2004	46375401	Satisfied	10/1/2004	
DDAC	AD	5/14/2003	9. Vegetative Vigor, Tier II	5/14/2004	46414501	Satisfied	12/1/2004	
DDAC	AD	5/14/2003	10. Aquatic Plant Toxicity Test using Lemna spp. Tiers I and II	5/14/2004	46295804	Satisfied	6/16/2004	
DDAC	AD	5/14/2003	11. Anaerobic Aquatic Metabolism	5/14/2004	46124303	Satisfied	11/18/2003	
DDAC	AD	5/14/2003	12. Algal Toxicity, Tiers I and II	5/14/2004	46295801	Satisfied	6/16/2004	
DDAC	AD	5/14/2003	13. Environmental monitoring study	5/14/2004	46934201	Satisfied	9/14/2006	
Fenpropimorph	AD	9/27/2007	1. Seedling Emergence using rice (Oryza sativa), TEP	6/1/2008	47675201	Satisfied	2/13/2009	
<i>Fenpropimorph</i>	AD	9/27/2007	2. Tier II Vegative Vigor using rice (Oryza sativa) TEO	6/1/2008	47675201	Satisfied	2/13/2009	
<i>Fenpropimorph</i>	AD	9/27/2007	3. Lemna gibba (duckweed) using TEP	6/1/2008	47675202	Satisfied	2/13/2009	
<i>Fenpropimorph</i>	AD	9/27/2007	4. Algal toxicity studies using TEP Anabaena flos-aquae (blue-green cyanobacteria) Noavricula pelliculosa (freshwater diatom) Skeletonema cosatum (marine diatom)	6/1/2008	47675203, 47675204	Satisfied	2/13/2009	
<i>Fenpropimorph</i>	AD	9/27/2007	5. Acute estuarine/marine fish	9/28/2008	47425202	Satisfied	5/15/2008	
<i>Fenpropimorph</i>	AD	9/27/2007	6. Acute Mysid shrimp	9/28/2008	47425204	Satisfied	5/15/2008	
<i>Fenpropimorph</i>	AD	9/27/2007	7. Acute embryo larvae using E. oyster	9/28/2008	47425201	Satisfied	5/15/2008	
<i>Fenpropimorph</i>	AD	9/27/2007	8. Selenastrum capricornutum (green algae) using TEP	6/1/2008	47425203	Satisfied	5/15/2008	
<i>Fenpropimorph</i>	AD	9/27/2007	9. Whole sediment acute freshwater invertebrates using fenpropimorphic acid	9/28/2008	47425201	Satisfied	5/15/2008	
<i>Fenpropimorph</i>	AD	9/27/2007	10. Whole sediment acute marine invertebrates using fenpropimorphic acid	9/28/2008	47425201	Satisfied	5/15/2008	

New Active Ingredient Registration Status
2000-2020

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<i>Fenpropimorph</i>	AD	9/27/2007	11. Leachability of Wood Preservatives	11/28/2008	Waiver requested	Waived	N/A	
Glycolic Acid	AD	6/29/2011	1. Registered conditionally but no data required		N/A	N/A	N/A	
Listeria specific bacteriophage	AD	6/18/2008	1. Additional efficacy data (Monitoring Plan)		47242001	Satisfied	9/28/2007	
Lonzabec	AD	5/20/2006	1. Storage Stability /Corrosion Characteristics	12/1/2006	46309707, 46309706	Satisfied	7/8/2004	
<i>Lonzabec</i>	AD	5/20/2006	2. Analytical Method	12/1/2006	46309707	Satisfied	7/8/2004	
Potassium Hypochlorite	AD	3/28/2014	1. Registered conditionally but no data required		N/A	N/A	N/A	
Silver chloride	AD	3/28/2006	1. Enforcement Analytical Method	6/28/2006	46914401	Satisfied	8/18/2006	
Silver Nanoparticles (HeiQ)	AD	12/1/2011	1. Particle Size Distribution	3/31/2012	48854401	Satisfied	6/6/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	2. Surface Area	3/31/2012	48821601, 48957801	Satisfied	5/4/2012, 10/25/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	3. Stability	3/31/2012	Waiver requested 48788001	Satisfied	4/2/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	4. Storage Stability	3/31/2012	48788002	Satisfied	4/2/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	5. Corrosion Characteristics	3/31/2012	48788002	Satisfied	4/2/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	6. UV-Vis	3/31/2012	48878801	Satisfied	6/29/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	7. Solubility	3/31/2012	48788003	Satisfied	4/2/2012	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	8. Dissolution Kinetics	6/28/2013	49141001	Satisfied	6/3/2013	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	9. Leaching Test of Textile	5/31/2013	49165501	Satisfied	7/2/2013	
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	10. Dermal Exposure-Indoor			No longer required		Formulation change negated need for study. (10/22/2013)
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	11. Inhalation Exposure-Indoor			No longer required		Formulation change negated need for study. (10/22/2013)
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	12. Attrition Test - Laundry Drying			No longer required		No longer required based on the results from lower-tiered studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	13. 90-Day Inhalation			No longer required		Formulation change negated need for study. (10/22/2013)
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	14. 90-Day Dermal Toxicity		49740301 - Waiver requested	No longer required	9/30/2015	Reviewed under DP430750 and found acceptable.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	15. Reproduction/Developmental Toxicity Screening Test	9/29/2017	49740302 - Waiver requested (denied)	Required	9/30/2015	Waiver request reviewed under DP430750 and not accepted. New study required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	16. In vitro micronucleus (MN) assay	9/30/2016, 2/22/2018	49740303 - Waiver requested (denied); Protocol submitted (rated unacceptable)	Required	9/30/2015, 2/22/2018	New study protocol required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	17. Avian Acute Oral Toxicity			On hold		Requirement on hold pending results of aquatic invertebrate and aquatic plant studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	18. Aquatic Invertebrate Acute Toxicity, Freshwater Daphnids	2/29/2016, 5/22/2018	49710101	Required	9/24/2015	Reviewed under DP 429650 and found unacceptable. New study required.

New Active Ingredient Registration Status
2000-2020

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<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	19. Fish Acute Toxicity Test, Freshwater and Marine			On hold		Requirement on hold pending results of aquatic invertebrate and aquatic plant studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	20. UV-Vis	11/30/2015	49710102 - Waiver requested (denied); 50534302	In review	waiver 8/31/2015; new submission 02/26/2018	Waiver request reviewed under DP429651 - unacceptable. New submission under review.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	21. Particle Size Distribution	11/30/2015	49710102 - Waiver requested (denied); new submission 50534302	In review	waiver 8/31/2015; new submission 02/26/2018	Waiver request reviewed under DP429651 - unacceptable. New submission under review.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	22. Surface Area	11/30/2015	49710102 - Waiver requested (denied); 50534302	In review	waiver 8/31/2015; new submission 02/26/2018	Waiver request reviewed under DP429651 - unacceptable. New submission under review.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	23. Solubility	11/30/2015	49710102 - Waiver requested (denied); 50534302	In review	waiver 8/31/2015; new submission 02/26/2018	Waiver request reviewed under DP429651 - unacceptable. New submission under review.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	24. Zeta-potential	11/30/2015	49710102 - Waiver requested (denied); 50534302	In review	waiver 8/31/2015; new submission 02/26/2018	Waiver request reviewed under DP429651 - unacceptable. New submission under review.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	25. 90-Day Oral Toxicity		No longer required	No longer required		No longer required based on the results from lower-tiered studies.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	26. 90-Day Dermal Toxicity		No longer required	No longer required		No longer required based on the results from lower-tiered studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	27. Modified Reproduction/Developmental Toxicity Screening Test		No longer required	No longer required		No longer required based on the results from lower-tiered studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	28. In vitro micronucleus (MN) assay		No longer required	No longer required		No longer required based on the results from lower-tiered studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	29. Modified Aquatic Food Chain Transfer		49710102 - Waiver requested (denied)	On hold	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement dependent on results from aquatic invertebrate and aquatic plant studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	30. Terrestrial Plant Toxicity, Seedling Emergence	8/31/2017	49710102 - Waiver requested (denied)	On hold	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement dependent on results from aquatic invertebrate and aquatic plant studies.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	31. Aquatic Plant Toxicity, Tier II		49710102 - Waiver requested (denied)	On hold	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement dependent on results from green alga study.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	32. Algal Toxicity, Tier II	5/31/2016	49710102 - Waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New green algal study required.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	33. Measuring the Chronic Effects of Freshwater Sediment-Associated Contaminants on Chironomus dilutes		49710102 - Waiver requested (denied)	On hold	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement for new study dependent on results from hyalella study.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	34. Measuring the Chronic Effects of Freshwater Sediment-Associated Contaminants on Hyalella azteca	5/31/2016	49710102 - Waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New hyalella study required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	35. Measuring the Chronic Effects of Marine and Estuarine Sediment-Associated Contaminants on Leptocheirus plumulosus		49710102 - Waiver requested (denied)	On hold	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement for new study dependent on results from hyalella study.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	36. Rate of Aggregation	5/31/2016	49710102 - Waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New study now required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	37. Activated Sludge Sorption Isotherm	5/31/2016	49710102 - Waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New study now required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	38. Adsorption/Desorption	5/31/2016	49710102 - Waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New study now required.
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	39. Leaching Studies (Soil Column Tests)		49710102 - Waiver requested (denied)	No longer required	8/31/2015	Reviewed under DP429651 - unacceptable. Requirement can be addressed with acceptable absorption/desorption study.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Silver Nanoparticles (HeiQ)</i>	AD	12/1/2011	40. Modified Activated Sludge, Respiration Inhibition Test for Sparingly Soluble Chemicals	5/31/2016	49710102 - waiver requested (denied)	Required	8/31/2015	Reviewed under DP 429651 - unacceptable. New study now required.
Silver Nanoparticles (NanoSilva)	AD	5/15/2015	1. Particle Size Distribution	5/31/2016		Vacated		This registration was vacated by a court decision on May 30, 2017.
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	2. Surface Area	5/31/2016		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	3. Particulate Stability	5/31/2016		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	4. Dissolution Kinetics	8/31/2016		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	5. Leaching Test of Plastic	8/31/2016		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	6. 90-Day Inhalation modified to include a functional observational battery, motor activity and detailed neuropathology	1/31/2018		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	7. Modified Reproduction/Developmental Toxicity Screening Test via the inhalation route	1/31/2018		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	8. Aquatic Invertebrate Acute Toxicity, Freshwater Daphnids	11/30/2016		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	9. Plasmon Resonance	5/31/2017		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	10. Particle Size Distribution	5/31/2017		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	11. Surface Area	5/31/2017		Vacated		

New Active Ingredient Registration Status
2000-2020

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<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	12. Solubility	5/31/2017		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	13. Zeta-potential	5/31/2017		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	14. Peri- and post-natal exposure to NSPW-L30SS	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	15. Dermal Penetration	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	16. Modified Aquatic Food Chain Transfer	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	17. Terrestrial Plant Toxicity, Seedling Emergence	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	18. Aquatic Plant Toxicity, Tier II (Definitive) Test	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	19. Algal Toxicity, Tier II (Definitive) Test	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	20. Cyanobacteria Toxicity, Tier II (Definitive) Test	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	21. Measuring the Chronic Effects of Freshwater Sediment-Associated Contaminants on Chironomus dilutes	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	22. Measuring the Chronic Effects of Freshwater Sediment-Associated Contaminants on Hyalella azteca	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	23. Measuring the Chronic Effects of Marine and Estuarine Sediment-Associated Contaminants on Leptocheirus plumulosus	2/15/2019		Vacated		

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	24. Acute Toxicity Test with Freshwater and Marine Fish	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	25. Daphnid Chronic Toxicity Test	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	26. Early-Life Stage Toxicity Test for Freshwater, Estuarine, and Marine Fish	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	27. Rate of Deposition/Aggregation	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	28. Activated Sludge Sorption Isotherm	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	29. Adsorption/Desorption (Soil/Sediment) modified to include leaching component	2/15/2019		Vacated		
<i>Silver Nanoparticles (NanoSilva)</i>	AD	5/15/2015	30. Activated Sludge, Respiration Inhibition Test for Sparingly Soluble Chemicals	2/15/2019		Vacated		
Tolyfluanid	AD	12/30/2007	1. Monitoring Study	3/1/2008	48071901	Waived	4/22/2010	No data required. Study not acceptable but requirement waived
Trimethoxysilyl quat	AD	11/22/2006	1. Developmental Toxicity Study (to remove production cap of 10,000lbs)	1/31/2008	47449001	Satisfied	6/17/2008	
<i>Trimethoxysilyl quat</i>	AD	11/22/2006	2. Enforcement Analytical Method	6/21/2007	47148601	Satisfied	6/7/2007	
(Z,E)-9, 12 Tetradecadien-1-yl acetate	BPPD	3/13/2006	1. Storage stability	9/13/2007	48830401	Satisfied	5/17/2012	The conditions of registration are satisfied.
Aspergillus flavus AF36	BPPD	6/24/2003	1. Efficacy (Texas)		46859502	Satisfied	6/15/2006	
<i>Aspergillus flavus AF36</i>	BPPD	6/24/2003	2. 5-batch analysis		46859501	Satisfied	6/14/2006	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Aspergillus flavus NRRL 21882	BPPD	5/28/2004	1. Analysis and certified limits	11/28/2006	47008702, 47189202, 47349302, 47364501	Satisfied	12/18/2006, 7/26/2007, 2/19/2008, 3/6/2008	
<i>Aspergillus flavus</i> NRRL 21882	BPPD	5/28/2004	2. Product identity and composition	11/28/2006	47008702, 47364501	Satisfied	12/18/2006, 3/6/2008	
<i>Aspergillus flavus</i> NRRL 21882	BPPD	5/28/2004	3. Storage stability	11/28/2006	47364501, 47349302	Satisfied	2/19/2008	
<i>Aspergillus flavus</i> NRRL 21882	BPPD	5/28/2004	4. Efficacy		47008701, 47189201, 47299401	Satisfied	12/18/2006, 7/26/2007, 12/6/2007	
Bacillus subtilis QST 713	BPPD	6/20/2000	1. Manufacturing process (upgrade submitted study; includes 5-batch analyses and quality control to limit microbial impurities)	6/20/2001	45206101	Satisfied	9/11/2000	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	2. Freshwater fish toxicity/pathogenicity	6/20/2001	45455202	Satisfied	7/17/2001	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	3. Freshwater aquatic invertebrate toxicity/pathogenicity	6/20/2001	45455203	Satisfied	7/17/2001	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	4. 30-day toxicity/pathogenicity in grass shrimp	6/20/2001	45455204	Satisfied	7/17/2001	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	5. Non-target insect - parasitic Hymenoptera	6/20/2001	45455205	Satisfied	7/17/2001	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	6. Honeybee study	6/20/2001	46172901, 46172902	Satisfied	1/14/2004	
<i>Bacillus subtilis</i> QST 713	BPPD	6/20/2000	7. Storage stability	6/20/2002	45188101	Satisfied	9/11/2000	
Beauveria bassiana strain 447	BPPD	9/27/2002	1. 5-batch analysis	6/30/2004	46480601	Satisfied	8/29/2005	
Beauveria bassiana strain HF23	BPPD	12/27/2006	1. 5-batch analysis	6/27/2008	47345701	Satisfied	2/14/2008	
<i>Beauveria bassiana</i> strain HF23	BPPD	12/27/2006	2. Certification of limits	6/27/2008	47345701	Satisfied	2/14/2008	

New Active Ingredient Registration Status
2000-2020

Chemical	Division	Reg Notice Date	Conditional Data Requirement(s)	Due Date	MRID for Study Submitted	Review Status	Date Data Received	Comments
<i>Beauveria bassiana</i> strain HF23	BPPD	12/27/2006	3. Unintentional ingredients	6/27/2008	47345701	Satisfied	2/14/2008	
<i>Beauveria bassiana</i> strain HF23	BPPD	12/27/2006	4. Human pathogens	6/27/2008	47345701	Satisfied	2/14/2008	
<i>Beauveria bassiana</i> strain HF23	BPPD	12/27/2006	5. Storage stability	6/27/2008	47779201	Satisfied	6/16/2009	
<i>Beauveria bassiana</i> strain HF23	BPPD	12/27/2006	6. Viability data	6/27/2008	47345701	Satisfied	2/14/2008	
Calcium lactate	BPPD	2/15/2008	1. Efficacy	2/15/2009	N/A	Cancelled	N/A	Registration of product with this active ingredient was cancelled on 9/3/2010.
Chenopodium ambrosoides var. ambrosoides	BPPD	6/30/2010	1. Storage stability	6/30/2015	49331901	In review	2/10/2016	
<i>Chenopodium ambrosoides</i> var. <i>ambrosoides</i>	BPPD	6/30/2010	2. 5-batch preliminary analysis	6/30/2011	49061001, 49061002	Satisfied	2/21/2013	
Chondrostereum purpureum	BPPD	9/23/2004	1. 5-batch analysis		46702401	Satisfied	12/5/2005	
Coat Protein Gene of Plum Pox Virus	BPPD	5/7/2010	1. Independent laboratory validation of analytical method	5/7/2011	4828401	Satisfied	11/3/2010	
Coddling moth virus	BPPD	6/20/2001	1. Cell culture study	6/30/2003	45650901	Satisfied	4/11/2002	
Corn gluten meal	BPPD	9/4/2002	1. Storage stability	3/4/2003	45870101	Satisfied	3/4/2003	
COT102 x COT67B (Vip3Aa19 x FLCry1Ab)	BPPD	6/26/2008	1. Independent laboratory validation of analytical method	5/1/2009	47743201	Satisfied	5/1/2009	
<i>COT102 x COT67B (Vip3Aa19 x FLCry1Ab)</i>	BPPD	6/26/2008	2. 7-14 day Daphnia or aquatic invertebrate dietary study	5/1/2009	47779101, 47779102	Satisfied	6/16/2009	
<i>COT102 x COT67B (Vip3Aa19 x FLCry1Ab)</i>	BPPD	6/26/2008	3. Baseline susceptibility and diagnostic concentration determinations for major cotton pests	1/31/2009	47662801	Satisfied	2/2/2009	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Cry1F (Event 281) and Cry1Ac (Event 3006) Bt in co	BPPD	9/30/2004	1. Data supporting natural refuge as alternate host to Cotton Bollworm (CBW)	7/31/2005	46610301, 46909901, 47019301	Satisfied	8/1/2005, 8/10/2006, 12/29/2006	
<i>Cry1F (Event 281) and Cry1Ac (Event 3006) Bt in co</i>	BPPD	9/30/2004	2. Baseline susceptibility data and discriminating dose of toxins for Tobacco Budworm (TBW) and CBW	9/1/2005	46938701, 47223501	Satisfied	1/31/2005, 9/21/2006, 9/5/2007	
<i>Cry1F (Event 281) and Cry1Ac (Event 3006) Bt in co</i>	BPPD	9/30/2004	3. Avian chronic exposure study	9/30/2008	Waiver requested	Waived	4/7/2006	
<i>Cry1F (Event 281) and Cry1Ac (Event 3006) Bt in co</i>	BPPD	9/30/2004	4. Non-target insect study (minute pirate bug)	9/30/2008	47462301	Satisfied	7/1/2008	
<i>Cry1F (Event 281) and Cry1Ac (Event 3006) Bt in co</i>	BPPD	9/30/2004	5. Soil fate/terrestrial expression studies for long range soil persistence		47214501	Satisfied	8/27/2007	
Cry1F in corn	BPPD	5/18/2001	1. Soil degradation study (field)		47120701	Satisfied	5/2/2007	
<i>Cry1F in corn</i>	BPPD	5/18/2001	2. Confirmatory Monarch butterfly data		45759701	Satisfied	9/18/2002	
Cry2Ab2 in cotton	BPPD	6/14/2002	1. Heat stability study	6/30/2003	45086303	Satisfied	4/7/2000	
<i>Cry2Ab2 in cotton</i>	BPPD	6/14/2002	2. Confirmatory soil degradation study	6/30/2003	45806601	Satisfied	11/25/2002	
<i>Cry2Ab2 in cotton</i>	BPPD	6/14/2002	3. Avian oral toxicity	6/30/2003	45086316, 45086317	Satisfied	4/7/2000	
<i>Cry2Ab2 in cotton</i>	BPPD	6/14/2002	4. Ladybeetle larval data	6/30/2003	45086311	Satisfied	4/7/2000	
Cry34Ab1 and Cry35Ab1 (Cry34/35Ab1)	BPPD	8/31/2005	1. Laboratory toxicity data for 2 species of non-target beetles	8/31/2007	46714101, 47436701	Satisfied	12/20/2005, 6/3/2008	This registration expired 9/30/2015.
<i>Cry34Ab1 and Cry35Ab1 (Cry34/35Ab1)</i>	BPPD	8/31/2005	2. 3-year full-scale field or semi-field studies – non-target invertebrates	9/30/2009	47870301	Satisfied	9/28/2009	This registration expired 9/30/2015.
<i>Cry34Ab1 and Cry35Ab1 (Cry34/35Ab1)</i>	BPPD	8/31/2005	3. 3-year field degradation study	1/31/2010	47959501	Satisfied	1/21/2010	This registration expired 9/30/2015.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Cry3Bb1 (Event MON 863)	BPPD	2/24/2003	1. Insect resistance management/pest biology research data	2/13/2005	45943801, 46186501, 46262701, 46725901, 46949101	Satisfied	5/29/2003, 2/4/2004, 5/4/2004, 12/12/2005, 10/4/2006	
<i>Cry3Bb1 (Event MON 863)</i>	BPPD	2/24/2003	2. Expression data	2/24/2005	46479902	Satisfied	2/25/2005	
<i>Cry3Bb1 (Event MON 863)</i>	BPPD	2/24/2003	3. Field degradataion studies	2/24/2005	46510301	Satisfied	3/31/2005	
<i>Cry3Bb1 (Event MON 863)</i>	BPPD	2/24/2003	4. Laboratory toxicity data for 2 species of non-target beetles		46479904, 46479905	Satisfied	2/25/2005	
<i>Cry3Bb1 (Event MON 863)</i>	BPPD	2/24/2003	5. 3-year full-scale or semi-field studies – non-target invertebrates		46262702, 46262703, 46394202	Satisfied	5/4/2004, 11/1/2004	
<i>Cry3Bb1 (Event MON 863)</i>	BPPD	2/24/2003	6. 6-week broiler dietary study		45941501	Satisfied	5/23/2003	
Cry3Bb1 (Event MON 88017)	BPPD	12/13/2005	1. Insect resistance management/pest biology research data		45943801, 46186501, 46262701, 46725901, 46949101	Satisfied	5/29/2003, 2/4/2004, 5/4/2004, 12/12/2005, 10/4/2006	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.
<i>Cry3Bb1 (Event MON 88017)</i>	BPPD	12/13/2005	2. Expression data		46479902	Satisfied	2/25/2005	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.
<i>Cry3Bb1 (Event MON 88017)</i>	BPPD	12/13/2005	3. Field degradataion studies		46510301	Satisfied	3/31/2005	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Cry3Bb1 (Event MON 88017)</i>	BPPD	12/13/2005	4. Laboratory toxicity data for 2 species of non-target beetles		46479904, 46479905	Satisfied	2/25/2005	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.
<i>Cry3Bb1 (Event MON 88017)</i>	BPPD	12/13/2005	5. 3-year full-scale or semi-field studies – non-target invertebrates		46262702, 46262703	Satisfied	5/4/2004	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.
<i>Cry3Bb1 (Event MON 88017)</i>	BPPD	12/13/2005	6. 6-week broiler dietary study		45941501	Satisfied	5/23/2003	The registration of this active ingredient required that the conditional data requirements for Cry3Bb1 (Event MON 863) must be satisfied.
Cydia pomonella Granulosis Virus	BPPD	7/17/2000	1. Manufacturing process	7/17/2002	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/14/2010.
<i>Cydia pomonella Granulosis Virus</i>	BPPD	7/17/2000	2. Analysis of Samples	7/17/2002	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/14/2010.
<i>Cydia pomonella Granulosis Virus</i>	BPPD	7/17/2000	3. Product identity	7/17/2002	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/14/2010.
<i>Cydia pomonella Granulosis Virus</i>	BPPD	7/17/2000	4. Certification of limits	7/17/2002	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/14/2010.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Cydia pomonella</i> <i>Granulosis Virus</i>	BPPD	7/17/2000	5. Acute Intraperitoneal toxicity/pathogenicity study	7/17/2002	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/14/2010.
eCry3.1Ab (Event 5307)	BPPD	7/31/2012	1. Plant-based diagnostic assay report		49048901, 49049001	Satisfied	1/31/2013	
<i>eCry3.1Ab (Event 5307)</i>	BPPD	7/31/2012	2. Corn rootworm baseline susceptibility data	7/31/2014	49559102	Satisfied	1/30/2015	
<i>eCry3.1Ab (Event 5307)</i>	BPPD	7/31/2012	3. Data to address cross-resistance potential with Cry3Bb1 and Cry34/35Ab1	7/31/2014	49492501	Satisfied	10/20/2014	
German Cockroach Pheromone	BPPD	9/23/2004	1. 5-batch analysis		46469401, 46539801	Satisfied	2/14/2005, 5/4/2005	
Harpin proteins	BPPD	4/19/2000	1. Freshwater invertebrate pathogenicity	4/19/2001	45380401	Satisfied	4/17/2001	
<i>Harpin proteins</i>	BPPD	4/19/2000	2. 5-batch analysis for survival of Harpin-producing E. coli in end-product and quatitation of human pathogens	4/19/2001	45380402	Satisfied	4/17/2001	
<i>Harpin proteins</i>	BPPD	4/19/2000	3. Sample media without antibiotics to detect bacterial contamination	4/19/2001	45380402	Satisfied	4/17/2001	
<i>Harpin proteins</i>	BPPD	4/19/2000	4. PCR-based amplification to detect/estimate residual plasmid in end-product	4/19/2001	45380403	Satisfied	4/17/2001	
Metarhizium anisopliae F52	BPPD	6/6/2003	1. Manufacturing process - upgrade		48058801	Satisfied	4/12/2010	
<i>Metarhizium anisopliae F52</i>	BPPD	6/6/2003	2. Formation of unintentional ingredients upgrade		47880601, 48177001	Satisfied	10/9/2009, 8/6/2010	
<i>Metarhizium anisopliae F52</i>	BPPD	6/6/2003	3. Freshwater Fish Testing - repeat		Waiver requested	Waived	12/9/2004, 1/14/2008	
<i>Metarhizium anisopliae F52</i>	BPPD	6/6/2003	4. Product identity - upgrade		47123901	Satisfied	5/4/2007	
MIR 604 (mCry3A)	BPPD	10/3/2006	1. 3-year field degradation study	1/31/2011	Waiver requested	Waived	N/A	

New Active Ingredient Registration Status
2000-2020

Chemical	Division	Reg Notice Date	Conditional Data Requirement(s)	Due Date	MRID for Study Submitted	Review Status	Date Data Received	Comments
MIR 604 (mCry3A)	BPPD	10/3/2006	2. 3-year full-scale field or semi-field studies – non-target invertebrates	1/31/2011	48285801	Satisfied	11/4/2010	
MIR162 (Vip3Aa20)	BPPD	11/26/2008	1. Analytical method validation	11/1/2009	N/A	Satisfied	6/15/2009	
MIR162 (Vip3Aa20)	BPPD	11/26/2008	2. 7-14 day Daphnia study or aquatic invertebrate dietary study	11/1/2009	47779102	Satisfied	5/1/2009	
MOCry1F (Event DAS-06275-8)	BPPD	5/27/2005	1. Independent laboratory validation of analytical method		46656101	Satisfied	10/3/2005	Registration of products containing this active ingredient expired 9/30/2015.
MOCry1F (Event DAS-06275-8)	BPPD	5/27/2005	2. Confirm moCry1F protein levels in soil under range of conditions typical for Bt corn cultivation.	3/15/2008	47120702	Satisfied	5/7/2007	Registration of products containing this active ingredient expired 9/30/2015.
MOCry1F (Event DAS-06275-8)	BPPD	5/27/2005	3. Confirmatory non-target insect field data	3/15/2008	46784601	Satisfied	3/15/2006	Registration of products containing this active ingredient expired 9/30/2015.
MON 89034 (Cry1A.105 and Cry2Ab2)	BPPD	6/10/2008	1. 7-14 day daphnia study or aquatic invertebrate dietary study	4/1/2009	47838801	Satisfied	8/27/2009	
MON 89034 (Cry1A.105 and Cry2Ab2)	BPPD	6/10/2008	2. Info on cross-resistance of Cry1A.105, CrylF and CrylAc for target pests, and impact on the durability of MON 89034	4/1/2009	47838801	Satisfied	8/27/2009	
MON 89034 (Cry1A.105 and Cry2Ab2)	BPPD	6/10/2008	3. Sweet Corn: baseline susceptibility studies of major pests	4/1/2009	47791201, 47791202, 47791203	Satisfied	7/14/2008, 6/30/2009, 6/30/2009	
MON 89034 (Cry1A.105 and Cry2Ab2)	BPPD	6/10/2008	4. Sweet corn: baseline Fall Army Worm susceptibility studies to the 2 proteins	4/1/2009	48588801, 48588802, 48588803	Satisfied	8/30/2011	
MON 89034 (Cry1A.105 and Cry2Ab2)	BPPD	6/10/2008	5. Analytical method validation, including reagents/methodology	4/1/2010	47731601	Satisfied	4/22/2009	
Muscador albus	BPPD	9/22/2005	1. 5-batch analysis		47526001	Cancelled	9/2/2008	Registrations of products with this active ingredient were cancelled on 10/4/2010.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Muscador albus</i>	BPPD	9/22/2005	2. Storage stability		47526002	Cancelled	9/2/2008	Registrations of products with this active ingredient were cancelled on 10/4/2010.
<i>Muscador albus</i>	BPPD	9/22/2005	3. Acute inhalation toxicity	1/31/2007	47043801	Cancelled	1/31/2007	Registrations of products with this active ingredient were cancelled on 10/4/2010.
Nuclear Polyhedrosis Virus of Anagrapha falcifera	BPPD	8/9/2002	1. Analysis of samples	1/8/2003	46228201	Satisfied	3/22/2004	
Oil of Black Pepper and Piperine	BPPD	3/18/2004	1. Storage stability	12/1/2005	46717901	Satisfied	12/27/2005	
Paecilomyces lilacinus strain 251	BPPD	3/30/2005	1. Acute intraperitoneal toxicity pathogenicity study	9/30/2006	46950401 47197501	Satisfied	8/6/2007	
<i>Pasteuria usgae</i>	BPPD	6/2/2009	1. Analysis of Samples	5/1/2011	48453101	Satisfied	4/14/2011	
<i>Pasteuria usgae</i>	BPPD	6/2/2009	2. Manufacturing process	10/1/2009	47885301	Satisfied	10/16/2009	
<i>Pasteuria usgae</i>	BPPD	6/2/2009	3. Storage Stability	6/1/2010	48196201	Satisfied	8/17/2010	
<i>Pasteuria usgae</i>	BPPD	6/2/2009	4. Product Identity		N/A	In review	N/A	Product identity requirement will be satisfied when the microorganism classification is determined by the International Committee for Systematic Bacteriology.
Pseudomonas chloroaphis strain 63-28	BPPD	9/28/2001	1. Data demonstrating production of siderophores		46615902, 46766902	Cancelled	8/4/2005, 2/23/2006	This registration containing this active ingredient was cancelled on 7/22/2013.
<i>Pseudomonas chloroaphis strain 63-28</i>	BPPD	9/28/2001	2. Growth and survival of microbe at 10-25°C	6/28/2004	46615901, 46615901	Cancelled	8/4/2005, 2/23/2006	This registration containing this active ingredient was cancelled on 7/22/2013.

New Active Ingredient Registration Status
2000-2020

Chemical	Division	Reg Notice Date	Conditional Data Requirement(s)	Due Date	MRID for Study Submitted	Review Status	Date Data Received	Comments
Pseudozyma flocculosa strain PF-A22	BPPD	9/20/2002	1. Confirmatory pulmonary toxicity/pathogenicity study		N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/15/2011.
<i>Pseudozyma flocculosa strain PF-A22</i>	BPPD	9/20/2002	2. Storage stability		N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/15/2011.
<i>Pseudozyma flocculosa strain PF-A22</i>	BPPD	9/20/2002	3. Certificates of Analysis		N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/15/2011.
Quillaja saponaria extract	BPPD	7/14/2007	1. Product performance (efficacy)	7/15/2010	47645201 to 47645212, 48151401 to 48151413	Satisfied	1/15/2009, 7/15/2012	
Trichoderma harzianum strain T-39	BPPD	5/25/2000	1. Efficacy of PCR-RAPD protocol for strain identity	8/25/2000	N/A	Cancelled	Not submitted	All products cancelled on 7/21/2005.
<i>Trichoderma harzianum strain T-39</i>	BPPD	5/25/2000	2. 5-batch analysis	5/25/2001	N/A	Cancelled	Not submitted	Registrations of products with this active ingredient were cancelled on 7/21/2005.
<i>Trichoderma harzianum strain T-39</i>	BPPD	5/25/2000	3. Freshwater invertebrate study verification		44890101	Cancelled	8/23/2000	Registrations of products with this active ingredient were cancelled on 7/21/2005.
<i>Trichoderma harzianum strain T-39</i>	BPPD	5/25/2000	4. Plant-pathogenicity		N/A	Cancelled	Not submitted	Registrations of products with this active ingredient were cancelled on 7/21/2005.
<i>Trichoderma harzianum strain T-39</i>	BPPD	5/25/2000	5. Non-target insect (Ladybird beetle)		N/A	Cancelled	Not submitted	Registrations of products with this active ingredient were cancelled on 7/21/2005.
<i>Trichoderma harzianum strain T-39</i>	BPPD	5/25/2000	6. Upgrade honeybee study	5/25/2001	45244001	Cancelled	9/22/2000	Registrations of products with this active ingredient were cancelled on 7/21/2005.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Trypsin modulating oostatic factor (TMOF)	BPPD	5/24/2004	1. Storage Stability	5/24/2006	N/A	Cancelled	N/A	Registrations of products with this active ingredient were cancelled on 7/21/2005.
Xanthomonas campestris pv vesicatoria and Pseudom	BPPD	12/9/2005	1. PCR-based screen maintain/report QA/QC	6/9/2006	46887301	Satisfied	6/12/2006	Products registered with this active ingredient require ongoing QA/QC data to be submitted to EPA whenever requested. All other conditions of registration are satisfied.
Z,Z-3, 13-Octadecadien-1-ol and E,Z-3, 13-Octadeca	BPPD	4/20/2006	1. Storage stability		49313401	Satisfied	2/6/2014	
Z,Z-3, 13-Octadecadien-1-ol and E,Z-3, 13-Octadeca	BPPD	4/20/2006	2. Corrosion characteristics		49313401	Satisfied	2/6/2014	
Acequinocyl	RD	9/26/2003	Storage stability and corrosion characteristics	9/26/2005	46372101	Satisfied	8/5/2005	
<i>Acequinocyl</i>	RD	9/26/2003	1. Freshwater invertebrate (Daphnia) study	9/26/2004	46372101	Satisfied	9/29/2004	
<i>Acequinocyl</i>	RD	9/26/2003	2. Acute sediment toxicity test for freshwater invertebrates for the major metabolite, deacetylated acequinocyl; pending results on freshwater invertebrates, the test for sediment dwelling estuarine/marine invertebrates may be required. If required, it is to be submitted within 1 year of the date of the Agency's notification to company	9/26/2004	46372101	Satisfied	9/24/2004	
<i>Acequinocyl</i>	RD	9/26/2003	3. Acute toxicity study for the deacetylated acequinocyl using fish (rainbow trout; or bluegill sunfish)	9/26/2004	46370502	Satisfied	9/24/2004	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Acequinocyl</i>	RD	9/26/2003	4. Acute toxicity study for the deacetylated acequinocyl using an aquatic invertebrate using daphnids or mysids as the test species	9/26/2004	46372101	Satisfied	9/24/2004	
Acetaminophen	RD	3/21/2003	1. Conditionally registered but no data requirements		N/A	N/A	N/A	
Acetamiprid	RD	3/5/2002	1. Storage Stability Data for Rotational Crops	3/5/2004	46729102	Satisfied	1/12/2006	
<i>Acetamiprid</i>	RD	3/5/2002	2. Radio validation data for IM-2_1 amide in ruminant muscle	8/5/2002	Waiver requested	Waived	12/17/2002	Waiver requested on 12/17/02. Data indicate that residues of IM-2-1 amide in ruminant muscle can be estimated by applying a 10-fold factor to residues of IM-2-1 in muscle.
<i>Acetamiprid</i>	RD	3/5/2002	3. Avian Reproduction	3/5/2003	46369201, 46555601	Satisfied	6/16/2003	
<i>Acetamiprid</i>	RD	3/5/2002	4. Acute Aquatic Invertebrate	3/5/2003	45932501, 45916201, 49034202	Satisfied	5/14/2003, 01/09/2013	
<i>Acetamiprid</i>	RD	3/5/2002	5. Freshwater Fish Early Life-Stage	8/5/2002	N/A	Satisfied	N/A	No further data are required.
<i>Acetamiprid</i>	RD	3/5/2002	6. Toxicity of Foliar Residue to the Honey Bee	3/5/2003	45932505, 45932504	Satisfied	5/14/2003	
<i>Acetamiprid</i>	RD	3/5/2002	7. Tier II Phytotoxicity, Vegetative Vigor - Lettuce	3/5/2003	46229602, 46229601	Satisfied	2/10/2004	
Acibenzolar-s-methyl	RD	8/11/2000	1. Developmental neurotoxicity study in rats	8/11/2002	46046401	Satisfied	7/3/2003	
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	2. Subchronic neurotoxicity study in rats	8/11/2002	45713601	Satisfied	7/11/2002	
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	3. Mutagenicity study (Ames assay) with technical-grade acibenzolar-s-methyl (prepared by a new "thiazole" production process)	8/11/2002	48490001, 48490002, 48490003	Satisfied	5/24/2011	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	4. Soil photolysis study	8/11/2001	45434103, 45434104	Review completed / Supplemental	6/20/2001	Per DP# 415843, MRID 45434103 was reviewed in the preliminary problem formulation for Reg. Review risk assessment. MRID 45434104 was classified as supplemental.
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	5. Aerobic soil metabolism study	8/11/2001	45434103, 45434104	Review completed / Supplemental	6/20/2001	See comment for 4.
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	6. Aerobic aquatic metabolism study	8/11/2001	45434103, 45434104	Review completed / Supplemental	6/20/2001	See comment for 4.
<i>Acibenzolar-s-methyl</i>	RD	8/11/2000	7. One of two batch equilibrium study	8/11/2001	45434103, 45434104	Review completed / Supplemental	6/20/2001	See comment for 4.
Alpha-Chlorohydrin	RD	12/7/2006	1. Registered conditionally but no data required		N/A	N/A	N/A	
Amicarbazone	RD	10/4/2005	1. Nature of the residue-Plants		49133501	Satisfied	5/23/2013	
<i>Amicarbazone</i>	RD	10/4/2005	2. Nature of the residue-Livestock		48237521	Satisfied	10/5/2010	
<i>Amicarbazone</i>	RD	10/4/2005	3. Residue Analytical Methods		48237521	Satisfied	10/5/2010	
<i>Amicarbazone</i>	RD	10/4/2005	4. Storage stability		48612001	Satisfied	9/29/2011	
<i>Amicarbazone</i>	RD	10/4/2005	5. Meat, poultry and eggs - poultry feeding study		49133508	Satisfied	5/23/2013	
<i>Amicarbazone</i>	RD	10/4/2005	6. Crop field trials		49133502, 49133503	Satisfied	5/23/2013	
<i>Amicarbazone</i>	RD	10/4/2005	7. Field accumulation in rotational crops		49135504-07	Satisfied	5/23/2013	
<i>Amicarbazone</i>	RD	10/4/2005	8. Acute Avian Dietary (Quail)		48237511	Satisfied	10/5/2010	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Amicarbazone	RD	10/4/2005	9. Avian reproduction	12/15/2016	48237512, 48237513, 48237514, 48237515, 50606901, 50738101	Satisfied / Supplemental	10/5/2010-12/3/2018 (50738101)	MRIDs 48237512, 48237514, 48237515 (acceptable); 48237513 (supplemental) needed to be repeated. New study MRIDs 50606901 and 50738101
Amicarbazone	RD	10/4/2005	10. Aquatic Invertebrate Life Cycle - Saltwater		48407503	Satisfied	3/8/2011	
Amicarbazone	RD	10/4/2005	11. Aquatic invertebrate life cycle		48071501	Satisfied	4/22/2010	
Amicarbazone	RD	10/4/2005	12. Tier II vegetative vigor		48237518, 48237519, 48237520	Satisfied	10/5/2010	
Amicarbazone	RD	10/4/2005	13. Tier II seedling emergence and vegetative vigor		48237516, 48237517	Satisfied	10/5/2010	
Amicarbazone	RD	10/4/2005	14. Aerobic soil metabolism		48237507	Satisfied	10/5/2010	
Amicarbazone	RD	10/4/2005	15. Aerobic water and sediment metabolism	6/1/2018	48237507 (sediment), 50456601 (water)	Satisfied / Supplemental	10/5/2010, 12/7/17	
Amicarbazone	RD	10/4/2005	16. Hydrolysis for degradates		48073601, 48237506	Satisfied	4/26/2010, 10/5/2010	
Amicarbazone	RD	10/4/2005	17. Aerobic soil metabolism fro Des-amino, N-methyl des-amino.		48407501, 48407502	Satisfied	3/8/2011	
Amicarbazone	RD	10/4/2005	18. Analytical reference standards to the EPA National Pesticide Standards Repository: DA amicarbazone, iPr-2-OH DA Amicarbazone, aminocarbazone-d9, iPr-2-OH DA amicarbazone-d6.	12/15/2016	N/A	Satisfied	3/23/2015	
Amicarbazone	RD	10/4/2005	19. Fish early life stage		48237510	Satisfied	10/5/2010	
Aminocyclopyrachlor	RD	8/30/2010	1. Storage Stability	8/30/2011	48372401	Satisfied	2/1/2011	
Aminocyclopyrachlor	RD	8/30/2010	2. Corrosion Characteristics	8/30/2011	48372401	Satisfied	2/1/2011	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Aminocyclopyrachlor</i>	RD	8/30/2010	3. 5-batch analysis from commercial-scale production of product,	8/30/2011	48720201, 48720202	Satisfied	1/18/2012	
<i>Aminocyclopyrachlor</i>	RD	8/30/2010	4. Repeated dose in sensitive species to address chronic exposure	8/30/2012	48830801	Satisfied	5/17/2012	
<i>Aminocyclopyrachlor</i>	RD	8/30/2010	5. Avian Reproduction	8/30/2012	48333632, 48333633, 49909801	Satisfied	1/25/2011, 4/28/2016	DER upgraded. Requirement satisfied.
<i>Aminocyclopyrachlor</i>	RD	8/30/2010	6. Freshwater Invertebrate Life Cycle Toxicity Study	8/30/2012	48576201	Satisfied	8/11/2011	
Aminopyralid	RD	8/10/2005	1. Completed enforcement method of analysis to show that the analytical method differentiates between aminopyralid, picloram and clopyralid		46729001	Satisfied	1/12/2006	
<i>Aminopyralid</i>	RD	8/10/2005	2. The completed enforcement method to EPA Fort Meade Laboratory for validation		46729000	Satisfied	1/12/2006	
<i>Aminopyralid</i>	RD	8/10/2005	3. Storage stability data for grass forage and hay reflecting up to approximately 15 months of frozen storage		46661301	Satisfied	10/11/2005	
<i>Aminopyralid</i>	RD	8/10/2005	4. Repeated Aerobic Soil Metabolism Study		47911201	Satisfied	11/13/2009	
<i>Aminopyralid</i>	RD	8/10/2005	5. Repeated Avian Reproduction study in bobwhite quail		47109901	Satisfied	4/20/2007	
<i>Aminopyralid</i>	RD	8/10/2005	6. Repeated Tier II Aquatic Plant Growth: Blue-green algae, <i>Anabaena flos aquae</i>		47109902	Satisfied	4/20/2007	
Benzovindiflupyr	RD	8/28/2015	1. Bee data - acute oral tox larval - protocol	10/28/2015	49712301	Waived	11/24/2015	Waiver, acceptable 5/5/2016
<i>Benzovindiflupyr</i>	RD	8/28/2015	2. Bee data - chronic oral tox adult honeybee - protocol	10/28/2015	49712302	Waived	11/24/2015	Waiver, acceptable 4/5/2016
<i>Benzovindiflupyr</i>	RD	8/28/2015	3. Bee data - chronic oral tox larval - protocol	10/28/2015	N/A	Satisfied	11/24/2015	Protocol reviewed. Comments provided to registrant, recommend use of OECD draft guidance documents.

New Active Ingredient Registration Status
2000-2020

Chemical	Division	Reg Notice Date	Conditional Data Requirement(s)	Due Date	MRID for Study Submitted	Review Status	Date Data Received	Comments
Benzovindiflupyr	RD	8/28/2015	4. Controlled water monitoring study - protocol	11/28/2015	N/A	Satisfied	11/24/2015	Protocol acceptable. Comments provided to registrant 4/5/16.
Benzovindiflupyr	RD	8/28/2015	5. Vegetative Filter Strips field study - protocol	11/28/2015	NA	Satisfied	11/24/2015	Protocol acceptable. Comments provided to registrant 4/5/16 (memo dated 3/29/16)
Benzovindiflupyr	RD	8/28/2015	6. Sediment toxicity study with Hyalella azteca - protocol	11/29/2015	N/A	Satisfied	11/25/2015	Protocol acceptable. Comments provided to registrant 4/5/16.
Benzovindiflupyr	RD	8/28/2015	7. Vegetative Filter Strips - educational plans	12/28/2015	N/A	Satisfied		Condition satisfied although EFED does not support VFS as feasible method to control runoff (letter dated 4/5/16)
Benzovindiflupyr	RD	8/28/2015	8. Controlled water monitoring study - preliminary report	12/31/2016, 12/31/2020		Pending	12/16/2016	Final Report due 12/31/2020
Benzovindiflupyr	RD	8/28/2015	9. Vegetative Filter Strips field study - preliminary report	12/31/2016, 12/31/2020		Pending	12/16/2016	Final Report due 12/31/2020
Benzovindiflupyr	RD	8/28/2015	10. Sediment toxicity study with Hyalella Azteca - study	9/1/2017	5033701	Satisfied	9/1/2017	Review completed; study acceptable
Benzovindiflupyr	RD	8/28/2015	11. Controlled water monitoring study - updated report (based on results of study, it may be extended)	12/31/2017, 12/31/2020		Pending	12/31/2017	Final report due 12/31/2020
Benzovindiflupyr	RD	8/28/2015	12. Bee data - chronic oral tox larval - study	9/1/2018	4971203	Satisfied	11/24/2015	Review completed; study acceptable
Benzovindiflupyr	RD	8/28/2015	13. Bee data - chronic oral tox adult honeybee - study	9/1/2018	49712302	Satisfied	11/24/2015	Study waiver granted (5/5/16 memo)

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Benzovindiflupyr</i>	RD	8/28/2015	14. Vegetative Filter Strips field study - study (based on results of study, it may be extended)	12/31/2020		Pending		Final report due 12/31/2020
Bicyclopyrone	RD	3/8/2000	1. Bee data - acute and chronic larval and chronic adult - study	4/21/2018	50490601, 50490602, 50490603	Satisfied	9/1/2018	
Bispyribac-Sodium	RD	9/24/2001	1. Storage stability data for the benzene-labeled rate rice metabolism study	9/24/2003	46076600	Satisfied	9/22/2003	
<i>Bispyribac-Sodium</i>	RD	9/24/2001	2. Poultry feeding study	9/24/2003	48060601, Waiver requested	Waived	4/13/2010	Waiver; DP 377208; acceptable
<i>Bispyribac-Sodium</i>	RD	9/24/2001	3. 28-day inhalation	9/24/2003	48578001, Waiver requested	Waived	8/22/2011	Waiver; DP 394228; acceptable
<i>Bispyribac-Sodium</i>	RD	9/24/2001	4. In vitro mammalian cell gene mutation assay	9/24/2003	46076601	Satisfied	9/22/2003	
<i>Bispyribac-Sodium</i>	RD	9/24/2001	5. Residue data generated for the vegetative vigor of terrestrial plants	9/24/2003	Waiver requested	Waived	9/30/2002	Waiver; DP 287947; acceptable
<i>Bispyribac-Sodium</i>	RD	9/24/2001	6. Residue data generated for the seedling emergence of terrestrial plants	9/24/2003	Waiver requested	Waived	9/30/2002	Waiver; DP 287947; acceptable
<i>Bispyribac-Sodium</i>	RD	9/24/2001	7. Toxicity study to green algae	9/24/2003	46076602	Satisfied	9/22/2003	
Boscalid	RD	7/21/2003	1. Radiovalidation study to support the adequacy of the proposed tolerance	12/31/2002	46220001	Satisfied	3/11/2004	
<i>Boscalid</i>	RD	7/21/2003	1. for sunflower seed (from Region 5)	8/31/2004	46512003	Satisfied	3/31/2005	
<i>Boscalid</i>	RD	7/21/2003	2. Radiovalidation data demonstrating the efficiency of the microwave hydrolysis step in Method 476/0	12/31/2003	46220002	Satisfied	3/11/2004	
<i>Boscalid</i>	RD	7/21/2003	2. for cucumber (one each from Regions 2 and 10)	8/31/2004	46512002	Satisfied	3/31/2005	
<i>Boscalid</i>	RD	7/21/2003	3. All proposed data collection and tolerance methods, revised to state that solutions of analytical standards should not be stored longer than 2 months before replacement	8/30/2004	46351401, 46351402, 46351403	Satisfied	8/31/2004	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Boscalid</i>	RD	7/21/2003	3a. Residues in mustard greens (one each from Regions 2,3, and 10)	8/31/2004	46512001	Satisfied	3/31/2005	
<i>Boscalid</i>	RD	7/21/2003	4. Final Report of the storage stability study in plant matrices with description of the fortification solutions (solvent) used in the study and a full description of the analytical method (445/0)	8/30/2004	46351404, 46351405	Satisfied	8/31/2004	
<i>Boscalid</i>	RD	7/21/2003	5. Data demonstrating the frozen storage stability of BAS 510 F residues in processed grape juice (2 months) and tomato paste (5 months)	12/31/2003	46160103, 45405126, 45405109, 47584402	Satisfied	12/23/2003, 4/3/2001, 4/3/2001, 2/3/2009	
<i>Boscalid</i>	RD	7/21/2003	6. Additional field trials, conducted per their respective proposed use pattern by 8/31/2004	8/31/2004	46655106	Satisfied	10/11/2005	
<i>Boscalid</i>	RD	7/21/2003	7. Limited field accumulation study which provides data on beet tops (sugar or garden) and turnip tops, from beets and turnips planted as rotational crops into treated soil 14 days following the last of 3 applications of BAS 510 F totaling ~1.8 lbs ai/A	8/31/2004	46210606	Satisfied	3/2/2004	
<i>Boscalid</i>	RD	7/21/2003	8. Limited field accumulation study which provides residue data on spinach and celery, planted as rotational crops into treated soil 14 days following the last of 3 applications of BAS 510 F totaling ~1.8 lbs ai/A (alternatively, the petitioner may submit a full set of crop field trials data for spinach (6) and celery (6), via a use pattern similar/identical to that for lettuce, and request a direct use tolerance on all of crop group 4	8/31/2004	46145101, 46145102	Satisfied	12/1/2003	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Boscalid</i>	RD	7/21/2003	9. Demonstration that pH, water hardness, and the use of dechlorinated tap water do not affect the toxicity of Boscalid and if it can be demonstrated that mean measured concentrations accurately reflect the amount of chemical in solution, so aquatic toxicity tests using fish and invertebrates may be upgraded to core studies.	8/31/2004	Waiver requested	Waived	11/18/2004	
<i>Boscalid</i>	RD	7/21/2003	10. Provide data on growth (length and weight) of <i>Daphnia magna</i> in the freshwater invertebrate life cycle study.	8/31/2004	46351406, 45405005	Satisfied	8/31/2004	
<i>Boscalid</i>	RD	7/21/2003	11. Provide data for freshwater mollusc such as <i>Corbicula</i> spp., given the persistence of Boscalid and its tendency to partition onto sediments.	8/31/2004	Waiver requested	Waived		
<i>Boscalid</i>	RD	7/21/2003	12. 21/28 day inhalation study	8/31/2004, 1/11/2018	Waiver requested (denied 3/7/13); 50485703 (acceptable study)	Satisfied	1/11/2018	
<i>Boscalid</i>	RD	7/21/2003	13. Dermal sensitization	8/31/2004	46270102	Satisfied	5/13/2004	
Buprofezin	RD	8/31/2000	1. Developmental neurotoxicity study in rats	12/31/2003	45819101	Satisfied	12/10/2002	
<i>Buprofezin</i>	RD	8/31/2000	2. Storage stability data validating the following intervals for buprofezin, BF 9, and BF 12: cucumber (26 months); summer squash (12 months); lettuce (31 months); wheat forage, hay and straw (29 months); wheat grain (21 months); sugar beet top and root (24 months); mustard greens (28 months); turnip tops and roots (29 months); carrot (26 months).	12/31/2003	44576916, 46804701	Satisfied	1/30/2001, 4/6/2006	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Buprofezin</i>	RD	8/31/2000	3. Frozen storage intervals for cantaloupe (10 months); summer squash (12 months); cucumber (26 months) are to be validated.	12/31/2003	48488201, 48488202, 8488203	Satisfied	5/20/2011, 6/13/2011	
<i>Buprofezin</i>	RD	8/31/2000	4. Cantaloupe field trials in Regions 2 and 10.	12/31/2003	48488202	Satisfied	6/13/2011	
<i>Buprofezin</i>	RD	8/31/2000	5. Frozen sample interval for lettuce samples (28 months) to be validated.	12/31/2003	46804701	Satisfied	4/6/2006	
<i>Buprofezin</i>	RD	8/31/2000	6. Leaf lettuce field trials in Regions 1 and 10.	12/31/2003	47112003	Satisfied	4/20/2007	
<i>Buprofezin</i>	RD	8/31/2000	7. Data needed to upgrade the terrestrial field trial storage stability from upgradable to acceptable.	12/31/2003	44576915	Satisfied	6/5/1998	
<i>Buprofezin</i>	RD	8/31/2000	8. Freshwater Fish Full Life Cycle	10/8/2015	49738503	Satisfied	4/1/2015	
Butafenacil	RD	9/29/2003	1. Ruminant feeding study	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	2. Repeat of the 21-day chronic toxicity test with freshwater invertebrates	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	3. Repeat of the acute toxicity study on plants with a plant species that can provide a better representation of the toxicity of parent butafenacil to vascular plants	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	4. Chronic toxicity test with an estuarine/marine invertebrate species.	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	5. Repeat of the tier II seedling emergence 123-1(a)	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	6. Repeat of the vegetative vigor 123-1(b)	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	7. Acute fish study with parent butafenacil in the presence of natural sunlight or an equivalent source	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Butafenacil</i>	RD	9/29/2003	8. Frozen storage stability data	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
<i>Butafenacil</i>	RD	9/29/2003	9. Ruminant validation method	9/29/2006	N/A	Cancelled	N/A	All products cancelled on 7/16/07
Clodinafop-propargyl	RD	6/6/2000	1. Acute neurotoxicity study in rats	6/1/2003	46012992, 46012947	Satisfied		
<i>Clodinafop-propargyl</i>	RD	6/6/2000	2. Subchronic neurotoxicity study in rats	6/1/2003	46012921, 46012946	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	3. Developmental neurotoxicity study in rats	6/1/2003	46012925	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	4. In vitro cytogenetic assay	6/1/2003	46012919	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	5. Nature of the residue in plants	6/1/2003	46012908, 46012909	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	6. Residue analytical methods	6/1/2003	46012912, 46012914	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	7. Storage stability data	6/1/2003	46012916, 46012917	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	8. Magnitude of the residue in plants	6/1/2003	46012918	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	9. Hydrolysis	6/1/2003	46012926	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	10. Photolysis in water	6/1/2003	46012927, 46012928	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	11. Anaerobic soil metabolism on degradate	6/1/2003	Not submitted	Waived	6/3/2003	Requirement withdrawn
<i>Clodinafop-propargyl</i>	RD	6/6/2000	12. Adsorption/desorption	6/1/2003	46012934, 46012935, 46012936, 46012937	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	13. Field dissipation	6/1/2003	46012939	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	14. Aerobic soil metabolism	6/1/2003	46012930, 46012931	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	15. Avian reproduction	6/1/2003	46012945	Satisfied	6/3/2003	
<i>Clodinafop-propargyl</i>	RD	6/6/2000	16. Seedling emergence/vegetative vigor	6/1/2003	46012902, 46012901	Satisfied	6/3/2003	
Clothianidin	RD	5/30/2003	1. Developmental immunotoxicity study	5/30/2006	46536502, 46536501	Satisfied	4/29/2005, 2008	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Clothianidin</i>	RD	5/30/2003	2. Additional analysis of test materials used in mutagenicity studies	5/30/2006	46339001, 46339002, 46339003, 46339004	Satisfied	8/10/2004	
<i>Clothianidin</i>	RD	5/30/2003	3. Rotational crop residue field trials with mature soybeans	5/30/2006	46826901	Satisfied	5/15/2006	
<i>Clothianidin</i>	RD	5/30/2003	4. Aerobic aquatic metabolism	5/30/2006	46826903	Satisfied	5/15/2006	
<i>Clothianidin</i>	RD	5/30/2003	5. Seed leaching study	5/30/2006	46826904	Satisfied	5/15/2006	
<i>Clothianidin</i>	RD	5/30/2003	6. Whole sediment acute toxicity to freshwater invertebrates	5/30/2006	46826902	Satisfied	5/15/2006	
<i>Clothianidin</i>	RD	5/30/2003	7. Field test for pollinators	5/30/2006	46907801, 46907802	Satisfied	8/9/2006	
Cyazofamid	RD	11/9/2004	1. All the submitted fate and transport studies were classified either supplemental or unacceptable. Therefore, the registrant is required to respond to notes present in all of the EFED DERs. The identified data gaps must be resolved by submitting additional details about the methods or results. If the studies cannot be upgraded, new studies may be required	3/31/2005	446537701, 46537702, 46537703, 46537704, 46537705, 46537706, 46537707, 46537709, 46537710, 46537711, 46537712, 46537713, 46537714, 46537715, 46537716, 46537717, 46537719, 46537720, 46537722, 46537723 46537724, 46784201, 46784202	Satisfied	5/2/05, 3/15/06 (last 2)	
<i>Cyazofamid</i>	RD	11/9/2004	2. Hydrolysis/aerobic soil on the degradate CCTS to look into the fate of this degradate and to confirm that the degradates HTID, CDTs and p-Toluamide were only photolytic degradates resulting from long exposure to light	11/30/2006	46537725 (Waiver requested)	Waived	5/2/2005	
<i>Cyazofamid</i>	RD	11/9/2004	3. Replacement avian reproduction study using bobwhite quail to establish valid NOAECs for parent cyazofamid and the CCIM degradate	11/30/2006	45638515, 47716308	Satisfied	3/28/02, 3/31/09	
<i>Cyazofamid</i>	RD	11/9/2004	4. Freshwater Invertebrate Life Cycle Test using the parent	11/30/2006	46702708, 47716307	Satisfied	12/5/05, 3/31/09	
<i>Cyazofamid</i>	RD	11/9/2004	5. Photodegradation on Soil	11/30/2005	46702704	Satisfied	12/5/2005	
<i>Cyazofamid</i>	RD	11/9/2004	6. Aerobic Soil Metabolism (Two relevant U.S. soils)	11/30/2005	47716301 (Waiver requested)	Waived	3/31/2009	
<i>Cyazofamid</i>	RD	11/9/2004	7. Aerobic Aquatic Metabolism (One water sediment system)	11/30/2005	47716303	Satisfied	3/31/2009	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Cyazofamid</i>	RD	11/9/2004	8. Anaerobic Aquatic Metabolism (One water sediment system)	11/30/2005	47716302	Satisfied	3/31/2009	
<i>Cyazofamid</i>	RD	11/9/2004	9. Bio-accumulation in Fish Study	11/30/2005	47716305	Satisfied	3/31/2009	
<i>Cyazofamid</i>	RD	11/9/2004	10. Nature of Residue: Information pertaining to dates of sample collection, extraction, final analysis. Representative chromatograms of the radiolabeled residues taken before and after storage under frozen conditions	3/31/2005	46537726, 46537727, 46537728	Satisfied	5/2/2005	
<i>Cyazofamid</i>	RD	11/9/2004	11. Storage Stability data for 18 months on the representative commodities of the cucurbit required to support the storage intervals and conditions of the crop field trials	11/30/2006	46989701	Satisfied	11/21/2006	
<i>Cyazofamid</i>	RD	11/9/2004	12. Confined Accumulation in Rotational Crops: Data to confirm the actual sample storage interval storage stability data indicate that the parent and its metabolites CCIM and CCBA are stable in fortified samples of carrot roots, lettuce, and wheat forage stored frozen for at least 4 months	11/30/2006	46537726, 46537727, 46537728	Satisfied	5/2/2005	Provided additional information around times of the confined rotational crop study - Status: Canada reviewed the study and HED has confirmed
<i>Cyflufenamid</i>	RD	6/27/2012	1. Acute neurotoxicity study	6/27/2013	49128101	Satisfied	5/16/2013	
<i>Cyflufenamid</i>	RD	6/27/2012	2. Sample storage stability associated with the apple metabolism study must be submitted for a period than covers 17 months.	6/27/2014	49023501	Satisfied		Waiver submitted 12/2012
<i>Cyflufenamid</i>	RD	6/27/2012	3. Nature of the residue in plants		49023500	Satisfied	12/19/2012	Data was only required when a future new use was submitted and this was done with MRIDs 50032701 and 50644700
Cyhalofop-butyl	RD	5/23/2002	1. 28-day inhalation toxicity study	6/1/2006	46471101	Satisfied	2/15/2005	
<i>Cyhalofop-butyl</i>	RD	5/23/2002	2. Carcinogenicity study in rats	6/1/2006	46471101, 46471102, 46471103	Satisfied	2/15/2005	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Cyhalofop-butyl</i>	RD	5/23/2002	3. Carcinogenicity study in mice	6/1/2006	46471101, 46471102, 46471103	Satisfied	2/15/2005	
Diclosulam	RD	3/8/2000	1. New Ames mutagenicity test conducted at adequate dose levels	2/28/2001	45225501	Satisfied	10/2/2000	
<i>Diclosulam</i>	RD	3/8/2000	2. Additional information concerning the metabolism study for poultry and eggs and the rotational crop study. The storage time between sampling and analysis for poultry, eggs, and rotational crops must be reported. If the storage time was longer than 6 months, adequate data concerning the stability of residues during the storage period between collection and final analysis.	2/28/2001	45225500	Satisfied	10/2/2000	
<i>Diclosulam</i>	RD	3/8/2000	3. Analysis of plant metabolism or field trial samples of peanut and soybean for 2,6-DCA using a validated method at the parts per billion level. The storage time b/t sampling and analysis for 2,6-DCA must be reported. If the storage time was longer than 6 mo., adequate data concerning the stability of residues during the storage period b/t collection and final analysis must be provided	2/28/2001	45225500	Satisfied	10/2/2000	
<i>Diclosulam</i>	RD	3/8/2000	4. Additional positive control data and untransformed motor activity data for the acute neurotoxicity study and the 1-	2/28/2001	45225502, 45225503, 45225504, 45225505, 45225506	Satisfied	10/2/2000	
Difenacoum	RD	9/28/2007	1. Registered conditionally but no data required		N/A	N/A	N/A	
Dimethyl disulfide	RD	7/9/2010	1. Field Volatility from Soil study		49461201	Satisfied	7/13/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	2. Estimation of inhalation exposure, outdoor sites		49461201	Satisfied	7/13/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	3. Environmental Chemistry Methods and Independent Laboratory Validations for Soil, Water, and Air	6/30/2011	48128201, 48535303, 48575201, 49173201	Air- Satisfied; Soil and Water Deficient	6/21/2010, and 8/15/2011	Env Chemistry Methods submitted; however, a replacement ILV for soil and water not yet submitted.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Dimethyl disulfide</i>	RD	7/9/2010	4. Aerobic Aquatic Metabolism study	9/30/2011	48662501	Satisfied	3/5/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	5. Anaerobic Aquatic Metabolism study	9/30/2011	48662502	Satisfied	3/5/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	6. Vegetative Vigor study	9/30/2011	47471202	Satisfied	5/29/2014	Acceptable per DP# 355006
<i>Dimethyl disulfide</i>	RD	7/9/2010	7. Aquatic Freshwater Invertebrate Life-Cycle Toxicity study	9/30/2011	48662504	Satisfied	3/5/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	8. Aquatic Saltwater invertebrate Life-Cycle Toxicity study	9/30/2011	48662506	Satisfied	3/5/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	9. Freshwater Fish Early Life-Stage Toxicity study	9/30/2011	48662503	Satisfied	3/5/2012	
<i>Dimethyl disulfide</i>	RD	7/9/2010	10. Saltwater Fish Early Life-Stage Toxicity study	9/30/2011	48662505	Satisfied	3/5/2012	
Dinotefuran	RD	9/17/2004	1. Stability to metals and metal ions		46403801	Satisfied	11/12/2004	
<i>Dinotefuran</i>	RD	9/17/2004	2. Confirm sample extraction and analysis dates for MRID 45639822.	12/17/2004	No MRID assigned	Satisfied	2/3/2005	Information submitted in conjunction with a new use application. 120 Day plant back interval retained.
<i>Dinotefuran</i>	RD	9/17/2004	3. Confirmatory dermal absorption study in the rat	9/17/2005	47013401	Satisfied	12/22/2006	
<i>Dinotefuran</i>	RD	9/17/2004	4. Developmental neurotoxicity study in the rat	9/17/2006	47677502, 48291601	Satisfied	2/17/2009	
<i>Dinotefuran</i>	RD	9/17/2004	5. Developmental immunotoxicity study in the rat with comparative measures between pups and the parents.	9/17/2006	47677501	Satisfied	2/17/2009	
<i>Dinotefuran</i>	RD	9/17/2004	6. Photodegradation in soil	9/17/2005	45640109	Satisfied	8/24/2010	
<i>Dinotefuran</i>	RD	9/17/2004	7. New aerobic soil metabolism or upgrade 2nd study (MRID 45640112) by addressing the characterization of the major degradates at various sampling intervals.	9/17/2005	46711201, 46711202	Satisfied	12/16/2005	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Dinotefuran</i>	RD	9/17/2004	8. Anaerobic Aquatic/soil metabolism study needs to be upgraded if direct application to water is proposed.		48680002	Satisfied	12/6/2011	
<i>Dinotefuran</i>	RD	9/17/2004	9. Aerobic aquatic metabolism study needed for any future aquatic uses.		48680002	Satisfied	12/6/2011	
<i>Dinotefuran</i>	RD	9/17/2004	10. Repeated fish early life stage toxicity test	9/17/2005	45639719	Satisfied	8/24/2010	
<i>Dinotefuran</i>	RD	9/17/2004	11. Avian acute oral test using bobwhite quail or mallard duck	9/17/2005	47353601	Satisfied	2/25/2008	
<i>Dinotefuran</i>	RD	9/17/2004	12. Aquatic invertebrate life cycle test is needed for any future aquatic uses.		45639718	Satisfied	8/24/2010	
Eco2Fume	RD	12/20/1999	1. Conditionally registered under 3(c)(7)(c) but no data requirements		N/A	N/A	N/A	
Ethametsulfuron Methyl	RD	4/23/2001	1. Product chem. Data partially satisfied and needed: product identity and discussion of ingredients, beginning materials and manufacturing process, formation of impurities, prelim analysis, analytical methods to verify cert limits, and stability. NOT satisfied: oxidizing or reducing action, explodability, storage stability, corrosion characteristics.	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	2. Hydrolysis study needs the % of phenyl-ring transformation products that are present after 30 days	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	3. Photodegradation in water: electronic absorption spectra of ethametsulfuron methyl at pH5 and 9.	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	4. Aerobic soil metabolism: triazine radiolabelled study to address comments in study review.	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	5. Terrestrial field dissipation study: Analytical method for identifying and quantifying residues of "cold" ethametsulfuron methyl must be evaluated	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	6. Freshwater fish full life-cycle	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	7. Tier II seed germination/seed emergence	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	8. Tier II vegetative vigor	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	9. Tier II Lemna gibba, Skeletonma costatum, blue green algae	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	10. Batch equilibrium adsorption/desorption study were conducted with acidic soils taken from eastern states. At least 2 alkaline soils should be included. Soil TLC studies only provide ancillary data.	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
<i>Ethametsulfuron Methyl</i>	RD	4/23/2001	11. Additional information required for acute inhalation and dermal sensitization studies. Refer to review.	4/23/2005	N/A	Cancelled	N/A	All products cancelled on 2/20/13
Etofenprox	RD	9/14/2001	1. Acute and subchronic neurotoxicity	3/1/2003	45932301, 45925701	Satisfied	4/22/2003	
<i>Etofenprox</i>	RD	9/14/2001	2. Development neurotoxicity	9/1/2003	46062301	Satisfied	8/28/2003	
<i>Etofenprox</i>	RD	9/14/2001	3. Residential "Indoor Surface Residue Dissipation Study following Total Release Product Use"	9/1/2003	46075002	Satisfied	9/3/2006	
<i>Etofenprox</i>	RD	9/14/2001	4. Residential "Indoor Air Concentration Measurements following Total Release Product Use"	9/1/2003	46075003	Satisfied	9/3/2006	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Etofenprox</i>	RD	9/14/2001	5. Product Performance Data for cockroaches, fleas, ticks, and mosquitoes	9/1/2002	46066506	Satisfied	9/5/2003	
Etoxazole	RD	8/22/2002	1. Core freshwater fish acute toxicity studies		46059001, 46059002	Satisfied	8/25/2003	
<i>Etoxazole</i>	RD	8/22/2002	2. 90-day subchronic inhalation study on rats		48134301 Waiver requested	Waived	6/28/2010	
Famoxadone	RD	7/17/2003	1. Leaching/Adsorption/Desorption study (one additional soil type which should be finer-grained than those previously tested-which were sand, sandy/loam, and sandy/clay/loam)	8/31/2004	46350401	Satisfied	8/30/2004	Study Supplemental, requirement satisfied
<i>Famoxadone</i>	RD	7/17/2003	2. Acute freshwater fish (Rainbow trout) guideline study using the end-use product	8/31/2004	46144801	Satisfied	12/4/2003	
<i>Famoxadone</i>	RD	7/17/2003	3. Whole sediment acute toxicity invertebrates, freshwater chironomids, the 28-day test		44946308, 49663601	Satisfied	12/31/2014	
<i>Famoxadone</i>	RD	7/17/2003	4. Honey-bee acute contact with the end-use product by	8/31/2004	46350402	Satisfied	8/30/2004	
<i>Famoxadone</i>	RD	7/17/2003	5. Honey-bee toxicity of residues on foliage with the end-use product	8/31/2004	46350403	Satisfied	8/30/2004	
<i>Fenamidone</i>	RD	9/30/2002	1. Honey bee acute contact LD50	12/1/2003	45802901	Satisfied	11/19/2002	
<i>Fenamidone</i>	RD	9/30/2002	2. Mallard duck reproduction	12/1/2004	46418601	Satisfied	12/6/2004	
<i>Fenamidone</i>	RD	9/30/2002	3. Freshwater fish early life-stage or fish full life cycle	12/1/2004	47332201 - Waiver requested (denied), 48389201 study (acceptable)	Satisfied	12/6/2004; 02/16/2011	Waiver denied; study satisfied requirement.
<i>Fenamidone</i>	RD	9/30/2002	4. Aerobic soil metabolism	12/1/2004	45385819	Satisfied	11/21/2002	
<i>Fenamidone</i>	RD	9/30/2002	5. Residue analytical methods-plants any modification or revisions recommended by the Agency	6/1/2003	No modifications requested	Satisfied	11/21/2002	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Fenamidone</i>	RD	9/30/2002	6. Confined accumulation in rotational crops- fenamidone labeled in the N-phenyl ring (aniline and substituted aniline standards should be included)	12/1/2003	Waiver requested	Waived	11/21/2002	
<i>Fenamidone</i>	RD	9/30/2002	7. Confined accumulation in rotational crop study	12/1/2003	46440805, 47514101, 47514102, 47514103	Satisfied	1/2/2005, 8/12/2008, 8/12/2008, 8/12/2008	
<i>Fenamidone</i>	RD	9/30/2002	8. Storage stability data for the confined accumulation in rotational crop study	12/1/2003	47817002	Satisfied	7/30/2009	
<i>Fenamidone</i>	RD	9/30/2002	9. Developmental neurotoxicity study	12/1/2003	46501102, 46590001	Satisfied	3/18/04, 7/12/05	
<i>Fenamidone</i>	RD	9/30/2002	10. 28-day inhalation toxicity study	12/1/2003	47465801, Waiver requested	Waived	7/2/2008	
<i>Fenamidone</i>	RD	9/30/2002	11. Storage Stability	3/1/2004	47120801	Satisfied	5/2/2007	Acceptable per DP# 454776
<i>Fenamidone</i>	RD	9/30/2002	12. Corrosion Characteristics	3/1/2004	46152101	Satisfied	12/15/2003	
Fenpyroximate	RD	9/29/2000	1. Confirmatory data must be submitted for the existing rat developmental study including additional historical control data.	9/27/2003	45323301	Satisfied	2/6/2001	
<i>Fenpyroximate</i>	RD	9/29/2000	2. 28-day inhalation study	9/27/2003	45323302	Satisfied	2/6/2001	
<i>Fenpyroximate</i>	RD	9/29/2000	3. Aerobic soil metabolism and adsorption/desorption (batch equilibrium) study.	9/27/2003	45649708	Satisfied	4/1/2002	
Flazasulfuron	RD	5/14/2007	1. One-year storage stability and corrosion characteristics	11/14/2008	46220905	Satisfied	3/2/2004	Agency letter, dated 11/20/08, states that the study submitted with the application satisfies the requirement.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Flazasulfuron</i>	RD	5/14/2007	2. Acute neurotoxicity study including historical positive control data, analytical data verifying homogeneity, and stability of formulated test materials for this study.	6/30/2009	47785301	Satisfied	6/23/2009	DP366699, DP404895, DP408778
<i>Flazasulfuron</i>	RD	5/14/2007	3. Aerobic aquatic metabolism	6/30/2009	47785302	Satisfied	6/23/2009	DP366710; supplemental, satisfies requirement
<i>Flazasulfuron</i>	RD	5/14/2007	4. Aerobic soil metabolism	6/30/2009	47785303	Satisfied	6/23/2009	DP366710, acceptable
<i>Flazasulfuron</i>	RD	5/14/2007	5. Anaerobic aquatic metabolism	6/30/2009	47785304	Satisfied	6/23/2009	DP366710; supplemental, satisfies requirement
<i>Flazasulfuron</i>	RD	5/14/2007	6. Soil Mobility: Adsorption/desorption (parent)	6/30/2009	47030002	Satisfied	1/2/2013	
<i>Flazasulfuron</i>	RD	5/14/2007	7. Freshwater fish early life-stage	6/30/2009	47785305	Satisfied	6/23/2009	DP366710, acceptable
<i>Flazasulfuron</i>	RD	5/14/2007	8. Aquatic invertebrate life-cycle (freshwater)	6/30/2009	47785306	Satisfied	6/23/2009	DP366710; supplemental, satisfies requirement
<i>Flazasulfuron</i>	RD	5/14/2007	9. Aquatic vascular plant (duckweed) study	6/30/2009	47785307	Satisfied	6/23/2009	DP366710; supplemental, satisfies requirement
<i>Flazasulfuron</i>	RD	5/14/2007	10. Seedling emergence (Tier II)	6/30/2009	47785308	Satisfied	6/23/2009	DP366710, DP372895 acceptable
<i>Flazasulfuron</i>	RD	5/14/2007	11. Studies need to be conducted on the hydrolysis degradates DTPU and DTPP at the pH(s) at which they are most stable to hydrolysis		47785309	Satisfied	6/23/2009	DP366710, acceptable
Flonicamid	RD	9/25/2003	1. 90-day inhalation study to address concerns for repeated exposure via the inhalation route as a result of greenhouse use	9/25/2005	Waiver requested	Waived		waiver granted 5/9/2005
<i>Flonicamid</i>	RD	9/25/2003	2. Storage stability/corrosion characteristics and UV/Visible absorption data	9/25/2005	46370701	Satisfied	10/26/2007	
<i>Flonicamid</i>	RD	9/25/2003	3. UV/Visible absorption data	9/25/2005	45911601	Satisfied	4/17/2003	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Florasulam	RD	9/28/2007	1. Seedling emergence study	9/28/2008	48651302	Satisfied	11/8/2011	
<i>Florasulam</i>	RD	9/28/2007	2. Independent laboratory validation study for the Florasulam method in soil and the 5-Hydroxy Florasulam Degradate in Soil by Capillary Gas chromatography with mass Selective Detector	9/28/2008	48651303	Satisfied	11/21/2008	
<i>Florasulam</i>	RD	9/28/2007	3. 5-batch analysis on the samples produced on commercial scale and based on the analytical results, a revised CSF	9/28/2008	47595601	Satisfied	11/13/2008	
<i>Florasulam</i>	RD	9/28/2007	4. One-year storage stability and corrosion characteristics studies	9/28/2008	48902101	Satisfied	4/3/2009	
Fluazinam	RD	3/5/2003	1. 28-day inhalation toxicity study in rats	12/1/2003	48571410	Satisfied	9/8/2011	Waiver request submitted in 2002 was deemed acceptable due to label mitigation (inclusion of respirator). Full study was submitted in 2011 as part of registration review
<i>Fluazinam</i>	RD	3/5/2003	2. Developmental neurotoxicity study in rats (Submit protocol for Agency approval and submit the study 2 years after approval		4654401, 47018301, 47037001	Satisfied	4/28/2005	
<i>Fluazinam</i>	RD	3/5/2003	3. Subchronic neurotoxicity screening battery in rats, required based on results of the developmental neurotoxicity study (must be submitted 2 years after notification by the Agency		N/A	Waived	N/A	Data not requested based on results of developmental neurotoxicity studies.
<i>Fluazinam</i>	RD	3/5/2003	4. Processed commodity study on potatoes at a higher treatment level, 5x	12/3/2003	Waiver requested and granted	Satisfied	1/17/2002	
<i>Fluazinam</i>	RD	3/5/2003	5. Photodegradation in soil	12/1/2003	45584205 Waiver requested	Waived	10/28/2008	
<i>Fluazinam</i>	RD	3/5/2003	6. Terrestrial Field Dissipation and concurrent storage stability study	12/1/2004	48631521, 48631522, 48631523	Satisfied	10/28/2008	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Fluazinam</i>	RD	3/5/2003	7. Tier I or Tier II Terrestrial Plant Growth, seedling emergence and vegetative vigor by 12/2003	12/1/2003	46172801, 46172802	Satisfied	1/15/2004	
Flubendiamide	RD	8/1/2008	1. Vegetative Filter Strip Study	7/31/2010	48175602, 48175604, 48175606	Satisfied	11/8/2010	
<i>Flubendiamide</i>	RD	8/1/2008	2. Protocol for Farm Pond Watering Program Study	8/3/2010	48535201, 48535201 (approval of NC monitoring site), 48644901 (approval of GA monitoring site)	Satisfied	11/8/2010	
<i>Flubendiamide</i>	RD	8/1/2008	3. Farm Pond Water Monitoring Program Study	1/31/2012	49415301, 49415302, 49415303	Satisfied	2/20/2015	
Flucarbazone	RD	9/29/2000	1. Refined analytical methods for the quantification of flucarbazone-sodium and its degradates in both soil and water (analytes of concern: flucarbazone-sodium, its sulfonamide and sulfonic acid degradates, O-desmethyl flucarbazone, N, O-dimethyltriazolin	10/1/2001	46926101, 46926102, 46926103	Satisfied	9/5/2006	
<i>Flucarbazone</i>	RD	9/29/2000	2. 28-day rat inhalation study	10/1/2001	46168501	Satisfied	1/12/2004	
<i>Flucarbazone</i>	RD	9/29/2000	3. A revised plant enforcement method which measures all residues of toxicological concern: flucarbazone-sodium; its N-desmethyl metabolite; and flucarbazone sulfonamide and its conjugates. Also submit an independent laboratory validation and radiovalidation of the method	10/1/2001	46223700	Waived	3/18/2004	
<i>Flucarbazone</i>	RD	9/29/2000	4. Additional residue field trial data on the sulfonamide metabolite and its conjugates. If the company can provide adequate storage stability data from the previously conducted field trials, the samples from these field trials may be analyzed for sulfonamide and its conjugates	10/1/2001	46223700	Waived	3/18/2004	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Flucarbazone</i>	RD	9/29/2000	5. Additional data on the sulfonamide metabolite and its conjugates in grain samples from the submitted processed food/feed study, should re-analyze grain samples from this study for flucarbazone sulfonamide and its conjugates. If quantifiable residues are found in the grain, then you must conduct a processing study	10/1/2001	46223700	Waived	3/18/2004	
<i>Flucarbazone</i>	RD	9/29/2000	6. Additional storage stability data from the submitted rotational crop studies for turnip tops and kale	10/1/2001	46103702	Satisfied	10/1/2003	
<i>Flucarbazone</i>	RD	9/29/2000	7. Field rotational crop studies supporting the 11-month plant back interval for canola, barley and field peas	10/1/2001	46083802	Satisfied	10/1/2003	
<i>Flucarbazone</i>	RD	9/29/2000	8. Seedling emergence and vegetative vigor data for sulfonamide degradate (test plant species should include lentil, canola, oat, onion, sugarbeet and buckwheat)	10/1/2001	46103701	Satisfied	10/27/2003	
<i>Flucarbazone</i>	RD	9/29/2000	9. Three field dissipation studies conducted on bare ground	10/1/2001	46223703, 46223704	Satisfied	3/18/2004	
Flufenpyr-ethyl	RD	9/30/2003	1. Additional storage stability data for the metabolite S-3153 acid-4-OH in field corn and stover	9/30/2004	46028601	Satisfied	7/10/2003	
<i>Flufenpyr-ethyl</i>	RD	9/30/2003	2. Confirmatory method for residues of flufenpyr-ethyl in/or on corn, soybeans, sugarcane raw agricultural commodities (RACs) by 9/30/2004. If the confirmatory method does not utilize a mass-selective detector (MSD), then an interference study will be required.	9/30/2004	46028602	Satisfied	7/10/2003	
Flumioxazin	RD	4/12/2001	1. Confirmatory residue analytical method for plants	4/12/2003	45914603	Satisfied	4/22/2003	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Flumioxazin</i>	RD	4/12/2001	2. Aqueous photolysis	4/12/2003	45914601	Satisfied	4/22/2003	
<i>Flumioxazin</i>	RD	4/12/2001	3. Anaerobic soil/aqueous soil metabolism	4/12/2003	45914602	Satisfied	4/22/2003	
<i>Flumioxazin</i>	RD	4/12/2001	4. Field dissipation	4/12/2003	46163701	Satisfied	4/22/2003	
Fluopicolide	RD	1/28/2008	1. Additional storage stability data are needed for celery and spinach reflecting a storage interval of 38 months. One study should be conducted on any representative leafy vegetable.	1/31/2009	49054401, 49054402, 49054403, 49054404	Satisfied	2/6/2013	
<i>Fluopicolide</i>	RD	1/28/2008	2. Provide sample history of cow metabolism study (46708514).	1/31/2009	47689304	Satisfied	2/24/2009	
<i>Fluopicolide</i>	RD	1/28/2008	3. Provide storage stability, clarify identification of peaks, correct flowchart for fat, recalculate the radioactivity levels for the cow metabolism study (46708518).	1/31/2009	47689305	Satisfied	2/24/2009	
<i>Fluopicolide</i>	RD	1/28/2008	4. Provide sample history of the hen metabolism study (46708515).	1/31/2009	47689303	Satisfied	2/24/2009	
<i>Fluopicolide</i>	RD	1/28/2008	5. Provide stability data for the duration of the storage period for the hen metabolism study (46708519).	1/31/2009	47689306	Satisfied	2/24/2009	
Fluopyram	RD	2/2/2012	1. Field accumulation in rotational crops;cotton, canola, cereal grains (except rice), and soybean	12/1/2015	49006009, 49006008, 49006010	Satisfied	5/31/2013	
<i>Fluopyram</i>	RD	2/2/2012	2. 90 day inhalation	4/30/2012	48828300, Waiver requested	Waived	6/19/2012	
<i>Fluopyram</i>	RD	2/2/2012	3. Seedling emergence, tier II for buckwheat.	12/1/2012	48934301	Satisfied	9/13/2012	This study fulfills the guideline requirements when combined with the previously submitted seedling emergence study 47372349.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Fluoxastrobin	RD	9/20/2005	1. Additional information (definitive identification of the test substance, spleen weights at necropsy, and competence of the laboratory to perform this type of assay) that will potentially allow upgrade of the assessment of the mouse subacute immunotoxicity study	6/30/2006	48692105	Satisfied	12/14/2011	
<i>Fluoxastrobin</i>	RD	9/20/2005	2. Additional data concerning the chromatograms and chromatography from the goat metabolism study	6/30/2006	46925801	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	3. Proposed enforcement method, including instructions for the analysis of all crops and their associated processed commodities for which the petitioner is requesting tolerances	6/30/2006	46486101, 46925803, 46486102	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	4. Residue enforcement method livestock	6/30/2006	46486101, 46486102, 46925803	Satisfied	3/3/2005, 09/01/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	5. Additional information and confirmatory raw data for the residue storage stability study	6/30/2006	46925801	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	6. Summary information concerning the weather conditions for the growing season for each crop field residue trial	6/30/2006	46925801	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	7. New peanut processing study	9/20/2007	47588901	Satisfied	11/6/2008	
<i>Fluoxastrobin</i>	RD	9/20/2005	8. Analytical reference standards for Fluoxastrobin, its Z-isomer, a metabolite, several deuterated molecules	6/30/2006	analytical reference standards are available	Satisfied	N/A	
<i>Fluoxastrobin</i>	RD	9/20/2005	9. Summary information concerning the weather conditions for the growing season for each field rotational crop residue study	6/30/2006	46925801	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	10. Soil characteristics data for each field rotational crop trial from which samples were analyzed	6/30/2006	46925801	Satisfied	9/1/2006	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Fluoxastrobin</i>	RD	9/20/2005	11. Explanation of why samples from one of the grass forage and hay rotational crop field trials appears to have been harvested more than one year after planting of the grass crop	6/30/2006	46925801	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	12. One acute (10-day) sediment toxicity test	6/30/2006	49317701	Satisfied	2/4/2003, 9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	13. One chronic (28-day) sediment toxicity test	6/30/2006	49317702	Satisfied	2/4/2003, 11/16/2004, 9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	14. Upgrade for anaerobic aquatic metabolism and one of the aerobic aquatic metabolism studies	6/30/2006	46925806	Satisfied	N/A	
<i>Fluoxastrobin</i>	RD	9/20/2005	15. Upgrade for the 96-hour rainbow trout acute toxicity study of degradate HEC 7180	9/30/2006	46925805	Satisfied	9/1/2006	
<i>Fluoxastrobin</i>	RD	9/20/2005	16. Upgrade for the 96-hour sheepshead minnow acute toxicity study	9/30/2006	45865417, 46925805	Satisfied	2/4/2003, 9/1/2006	
Flutriafol	RD	4/29/2010	1. Immunotoxicity study	4/29/2015	48360301, 48360302, 48360303	Satisfied	1/21/2011	
<i>Flutriafol</i>	RD	4/29/2010	2. Storage stability data for flutriafol and/or its metabolites in/on livestock and soybean commodities	4/29/2015	47959201, 47606601, 46568301	Satisfied	9/4/2012, 7/17/2013	
<i>Flutriafol</i>	RD	4/29/2010	3. A confined rotation crop study conducted with [triazole-3,5-14C] flutriafol and [carbinol14C] flutriafol	4/29/2015	47732601, 47675601, 47659101	Satisfied	4/22/2009, 2/13/2009, 1/30/2009	
<i>Flutriafol</i>	RD	4/29/2010	4. small scale prospective ground water monitoring study	4/29/2015	48735801, 48769301, 48838501	Satisfied	2/2/2012, 3/13/2012, 4/4/2012, 7/31/2015	Protocol review completed
<i>Flutriafol</i>	RD	4/29/2010	5. Avian acute oral LD50 study with passerine birds	7/31/2015	48586401, waiver denied. New study 49674201 acceptable.	Satisfied	7/17/2015	
Foramsulfuron	RD	3/27/2002	1. Fish early life stage study	3/27/2004	46241301	Satisfied	4/5/2004	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Foramsulfuron</i>	RD	3/27/2002	2. Seed germination/seedling emergence study conducted using the end-use product	3/27/2004	45483801	Satisfied	8/24/2001	
<i>Foramsulfuron</i>	RD	3/27/2002	3. Vegetative vigor study conducted using the end-use product	3/27/2004	45483802	Satisfied	8/24/2001	
<i>Foramsulfuron</i>	RD	3/27/2002	4. Tier II aquatic plant growth study conducted using the end-use product	3/27/2004	45109911	Satisfied	4/3/2000	
<i>Foramsulfuron</i>	RD	3/27/2002	5. Submit an acceptable study to complete the data requirement as specified in the Confidential Attachment to the Registration Notice.	3/27/2004	45554701, 45562501, 45562501, 45562502	Satisfied	4/8/2002	
Forchlorfenuron	RD	9/30/2004, 2/2/2005	1. Aquatic Algal Species	12/31/2006	46753501, 46753502, 46753503, 46753504	Satisfied	2/8/2006	
<i>Forchlorfenuron</i>	RD	9/30/2004, 2/2/2005	2. Vegetative Vigor Study	1/15/2007	46753505 (supplemental), 49862501	Satisfied	2/8/2006, 3/16/2016	Acceptable per DP# 432820
<i>Forchlorfenuron</i>	RD	9/30/2004, 2/2/2005	3. Field Dissipation Study	1/15/2007	Waiver requested	Waived	4/5/2005	
<i>Forchlorfenuron</i>	RD	9/30/2004, 2/2/2005	4. Avian Chronic Study	1/15/2007	49350901 (supplemental), 50905201	Satisfied	3/28/2014, 7/26/2019	Upgraded to acceptable per DP# 420428 dated 12/12/2017
Fosthiazate	RD	3/30/2004	1. The final report of the 3 year storage stability data for tomato	12/30/2008	45866701	Satisfied	8/24/2009	
<i>Fosthiazate</i>	RD	3/30/2004	2. Tobacco storage stability study (data depicting frozen storage stability of fosthiazate and ASC-67131 in a representative foliage commodity	12/30/2008	45866701(tomato) and 45866705 (tobacco)	Satisfied	2/27/2003	Registrant submitted the studies prior to registration in response to the Agency's residue chemistry review of 8/27/2002.
<i>Fosthiazate</i>	RD	3/30/2004	3. Analytical grade reference standards for the fosthiazate metabolite ASC-67131 must be submitted to the EPA standards repository	12/30/2008	No MRID number.	Satisfied	N/A	Sample shipped to EPA's standards repository on 12/6/2004

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Fosthiazate</i>	RD	3/30/2004	4. Additional data to characterize insoluble residues in 30 days after treatment (DAT) rotated wheat commodities	12/30/2008		Waived	8/24/2010	Required only for a pending use that was not registered.
<i>Fosthiazate</i>	RD	3/30/2004	5. Storage stability data to support the additional analyses required on the 30-DAT wheat forage, straw, and grain	12/30/2008		Waived	8/24/2010	Required only for pending use that was not registered.
<i>Fosthiazate</i>	RD	3/30/2004	6. 28-day inhalation study in rats with foshiazate	12/30/2008	46744901	Satisfied	1/30/2006	
<i>Fosthiazate</i>	RD	3/30/2004	7. Developmental neurotoxicity (DNT) study in rats with comparative ChE measurements in adults and pups	12/30/2008	46784301, waiver requested and granted	Waived	5/15/2006	
<i>Fosthiazate</i>	RD	3/30/2004	8. A worker study for activities involving contact ith treated soil conducted concurrently with a soil residue dissipation study.	12/30/2008	47098901, waiver request	Waived	4/2/2007	Agency did additional risk assessments and concluded MOEs are adequate. Requirement withdrawn.
Furfural	RD	10/5/2006	1. 28-day dermal toxicity study		46917201	Satisfied	8/21/2006	
<i>Furfural</i>	RD	10/5/2006	2. Guideline 28- or 90-day inhalation study		46917202, 47419101, 46426505	Satisfied	8/21/2006, 5/19/2008	
<i>Furfural</i>	RD	10/5/2006	3. Field/greenhouse volatility study for each major application method		47253701	Satisfied	10/11/2007	
<i>Furfural</i>	RD	10/5/2006	4. Dislodgeable foliar residue study		47146202	Satisfied	6/19/2007	
Halauixifen-methyl	RD	7/29/2016	1. Bee studies (Acute Oral, Chronic oral adult and larval, Toxicity of residues on foliage)	12/31/2018	50747601 (supplemental); 50747602 (acceptable); 50978601	In Review	12/20/2018, 12/20/2018, 1/20/2020	Acute oral toxicity to larvae honeybees is the only requirement not satisfied yet. A waiver request was submitted (MRID 50978601)
Imazosulfuron	RD	12/14/2010	1. immunotoxicity study	12/14/2012	48691003	Satisfied	12/12/2011	
<i>Imazosulfuron</i>	RD	12/14/2010	2. Multiresidue Methods	12/14/2012	49019000	Satisfied	12/17/2012	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Imazosulfuron</i>	RD	12/14/2010	3. Storage stability for rice, grain, peppers, tomatoes.		49114902	Satisfied	4/30/2013	
<i>Imazosulfuron</i>	RD	12/14/2010	4. Confined Accumulation in Rotational Crops	12/14/2012	48691001	Satisfied	12/12/2011	
<i>Imazosulfuron</i>	RD	12/14/2010	5. Field Accumulation in Rotational Crops	extension granted until 6/30/2014	N/A	No longer required	12/17/2012	Not required unless the registrant wishes to shorten the 1 year plant-back interval on the label.
<i>Imazosulfuron</i>	RD	12/14/2010	6. Acute toxicity study addressing effects of degradate, ISPN, to fish, quatic invertebrates, and aquatic non-vascular plants.	12/14/2012	49019001, 49019002, 49019003, 49019004, 49019005, 49019006, 49485201	Satisfied	12/17/2012	With the review of 49485201, the requirement has been satisfied.
<i>Imazosulfuron</i>	RD	12/14/2010	7. Acute Avian Oral Toxicity Study	12/14/2012	48691002	Satisfied / supplemental	12/12/2011	No new study required.
Indaziflam	RD	7/26/2010	1. Estuarine/Marine Invertebrate Life Cycle	7/26/2012	49073301	Satisfied	7/1/2013	
<i>Indaziflam</i>	RD	7/26/2010	2. Avian reproduction study on Mallard duck	7/26/2012	48892801	Satisfied	7/30/2012	
Indoxacarb	RD	9/29/2000	1. Product identity and composition	1/30/2002	45591501	Satisfied	1/30/2002	
<i>Indoxacarb</i>	RD	9/29/2000	2. Description of materials used to produce the product	1/30/2002	45591501	Satisfied	1/30/2002	
<i>Indoxacarb</i>	RD	9/29/2000	3. Description of production process	1/30/2002	45591501	Satisfied	1/30/2002	
<i>Indoxacarb</i>	RD	9/29/2000	4. Description of formulation process	1/30/2002	45591501	Satisfied	1/30/2002	
<i>Indoxacarb</i>	RD	9/29/2000	5. Discussion of formation of impurities	10/30/2002	46749001, 46749002, 46749003	Satisfied	2/2/2006	
<i>Indoxacarb</i>	RD	9/29/2000	6. 90-day inhalation toxicity study in the rat	10/30/2002	45354001	Satisfied	2/2/2006	
<i>Indoxacarb</i>	RD	9/29/2000	7. Poultry feeding study	10/30/2002	46114302	Satisfied	11/6/2003	
<i>Indoxacarb</i>	RD	9/29/2000	8. Confirmatory method for plants	10/30/2002	45795818	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	9. Specificity testing for analytical methods for plants	10/30/2002	45795818	Satisfied	11/4/2002	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Indoxacarb</i>	RD	9/29/2000	10. Storage stability data reflecting the maximum frozen storage intervals of cotton processed samples	10/30/2002	45795819	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	11. Photodegradation in water	10/30/2002	45795802	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	12. Hydrolysis	10/30/2002	45795801	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	13. Aerobic soil metabolism	10/30/2002	45795803, 45906701	Satisfied	11/4/02, 4/11/03	
<i>Indoxacarb</i>	RD	9/29/2000	14. Anaerobic aquatic metabolism	10/30/2002	45795804	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	15. Aerobic aquatic metabolism	10/30/2002	45793301	Satisfied	10/31/2002	
<i>Indoxacarb</i>	RD	9/29/2000	16. Leaching-adsorption/desorption	10/30/2002	45795805, 45795806, 45795807, 45795808, 45906702	Satisfied	11/4/02, 4/11/03	
<i>Indoxacarb</i>	RD	9/29/2000	17. Terrestrial field dissipation	10/30/2002	45795810, 45795811	Satisfied	11/4/2002	
<i>Indoxacarb</i>	RD	9/29/2000	18. Accumulation in fish	10/30/2002	45805301	Satisfied	11/22/2002	
Iodomethane	RD	10/5/2007	1. Agency does not request any additional conditional data in reg. notice		N/A	N/A	N/A	
Iodosulfuron-methyl-sodium	RD	10/26/2002	1. Avian reproduction studies	12/31/2004	46431803	Satisfied	12/27/2004	
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	2. Freshwater fish early-life stage studies	12/31/2004	46431804	Satisfied	12/27/2004	
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	3. Estuarine invertebrate life-stage studies	12/31/2004	48288301	Satisfied	11/5/2010	
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	4. Carcinogenicity study in mice	12/31/2004	Waiver requested	Waived	1/4/2008	Waivers found acceptable within HED risk assessment (D350046)
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	5. Developmental toxicity study in rabbits	12/31/2004	Waiver Requested	Waived	1/4/2008	Waivers found acceptable within HED risk assessment (D350046)

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	6. 28-day inhalation study	12/31/2003	Waiver requested	Waived	1/4/2008	Waivers found acceptable within HED risk assessment (D350046)
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	7. 21-day dermal study	12/31/2003	Waiver requested	Waived	1/4/2008	Waivers found acceptable within HED risk assessment (D350046)
<i>Iodosulfuron-methyl-sodium</i>	RD	10/26/2002	8. Analytical methods in plants, soil, and water.	12/31/2004	N/A	N/A	N/A	For this requirement, the registrant understood in a meeting with the Agency on 4/9/2003 that the requirement was placed in reserve pending consultation with industry working groups on ways to address the requirement. This chemical is currently in registration review and this requirement is included in the DCI.
Ipconazole	RD	9/10/2004	1. 28-day dermal toxicity study in rats	4/30/2006	47048916	Satisfied	5/15/2006	
<i>Ipconazole</i>	RD	9/10/2004	2. 90-day inhalation toxicity study in rats	4/30/2006	47048915	Satisfied	4/19/2005	
<i>Ipconazole</i>	RD	9/10/2004	3. Additional soil adsorption/desorption study conducted in a low organic matter (OM) soil	4/30/2006	46827503	Satisfied	5/15/2006	
<i>Ipconazole</i>	RD	9/10/2004	4. In vivo cytogenic assay	4/30/2006	46827502	Satisfied	5/15/2006	
Isofetamid	RD	7/21/2015	1. Bee data (acute and chronic larval and chronic adult)	7/21/2016	49819601, 49819602	Satisfied	1/22/2016	
Macleaya Extract	RD	9/19/2002	1. 90-day dermal study in the rabbit	3/31/2004	46273804	Waived	5/18/2004	Study called in under Registration Review Data Call-In Notice issued 6/12/2012. HAZPOC waived.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Macleaya Extract</i>	RD	9/19/2002	2. 90-day inhalation in rats	3/31/2004	46273806	Waived	5/18/2004	Study called in under Registration Review Data Call-In Notice issued 6/12/2012. HAZPOC waived.
<i>Macleaya Extract</i>	RD	9/19/2002	3. Developmental study in the rabbit	3/31/2004	46273807	Waived	5/18/2004	Study called in under Registration Review Data Call-In Notice issued 6/12/2012. HAZPOC waived.
<i>Macleaya Extract</i>	RD	9/19/2002	4. Mutagenicity battery (gene mutation in bacteria) and mammalian cells, and an in vivo cytogenetics assay	3/31/2004	46273814, 46273811, 46273812	Satisfied	5/18/2004	Study called in under Registration Review Data Call-In Notice issued 6/12/2012. HAZPOC waived.
Mammalian Gonadotropin Releasing Hormone	RD	9/29/2009	1. Guideline 830.1700 Preliminary analysis and validation of the method of analysis of the formulation	9/29/2010	48623801	Satisfied	9/29/2011	
<i>Mammalian Gonadotropin Releasing Hormone</i>	RD	9/29/2009	2. Guideline 830.1750 Certified Limits (basic and alternate CSFs)	9/29/2010	48959701	Satisfied	10/1/2012	
Mandestrobin	RD	9/30/2016	1. Bee studies (Chronic oral adult and larval)	9/30/2019	50710101, 50710102 and 50710103	Satisfied	3/28/2019	
Mandipropamid	RD	1/9/2008	1. New chronic daphnia study	1/9/2009	47802601	Satisfied	7/14/2009	
<i>Mandipropamid</i>	RD	1/9/2008	2. Storage stability data for SYN 500003 which covers the entire 32 months of storage (interim storage stability data for six months were submitted)	1/9/2009	47642303	Satisfied	1/12/2009	
Mesosulfuron-methyl	RD	3/31/2004	1. One-year storage stability and corrosion characteristics	10/1/2005	46647101	Satisfied	9/19/2005	
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	2. Independent laboratory validation of the livestock enforcement method for mesosulfuron-methyl in ruminant liver	10/1/2004	48080501	Satisfied	4/30/2010	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	3. Storage stability data to demonstrate the stability of mesosulfuron-methyl residues in/on wheat forage stored frozen for up to 26 months and in/on wheat grain and straw stored frozen for up to 25 months	10/1/2005	46229001, 46229002, 46229003, 46229004	Satisfied	5/22/2004	
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	4. Tier II vegetative vigor study with Osprey herbicide	10/1/2005	46688201	Satisfied	11/14/2005	
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	5. Terrestrial field dissipation study with Silverado Wild Oat herbicide in a spring wheat area such as North Dakota.	10/1/2006	46948901	Satisfied	10/3/2006	
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	6. Avian-reproduction study (mallard duck)	4/2/2006	Waiver requested	Waived	3/30/01, 10/28/04	
<i>Mesosulfuron-methyl</i>	RD	3/31/2004	7. Independently validated analytical chemistry methods to identify and quantify residues of mesosulfuron-methyl and its degradates in water (must be sufficiently sensitive to adequately determine and characterize mesosulfuron methyl residues in water resources down to levels of ecotoxicological importance)	4/2/2005	46451701, 46451702	Satisfied / Supplemental	1/24/2005	Addressed in Reg Review DCI
Mesotrione	RD	6/4/2001	1. Developmental neurotoxicity study in the mouse.	6/4/2005	45651812	Waived	3/28/2002	
<i>Mesotrione</i>	RD	6/4/2001	2. Adequate storage stability data in the plant and livestock metabolism studies	6/4/2005	45651814	Waived	3/28/2002	
<i>Mesotrione</i>	RD	6/4/2001	3. Revised interference study	6/4/2005	45651816	Waived	3/28/2002	
<i>Mesotrione</i>	RD	6/4/2001	4. 28-day Inhalation study	6/4/2005	46562908, Waiver requested	Waived	6/27/2005	
<i>Mesotrione</i>	RD	6/4/2001	5. Phytotoxicity studies	6/4/2005	47093501	Satisfied	3/20/2007	
<i>Mesotrione</i>	RD	6/4/2001	6. Improvement in the extraction method in the soil analytical method	6/4/2005	45651815	Satisfied		

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Mesotrione</i>	RD	6/4/2001	7. A prospective groundwater monitoring study at a vulnerable site in the southern US.	6/4/2005	47418901	Satisfied	5/7/2008	
Metaflumizone	RD	4/30/2007	1. Storage and corrosion characteristics	10/30/2008	47267901	Satisfied	10/30/2007	
Methoxyfenozide	RD	7/5/2000	1. Bi-valve mussel bioaccumulation study	6/30/2002	45702704	Satisfied		
<i>Methoxyfenozide</i>	RD	7/5/2000	2. Frog embryo teratogenesis assay using <i>Xenopus laevis</i>	6/30/2002	48661701, 48938701	Satisfied	9/14/2012	
<i>Methoxyfenozide</i>	RD	7/5/2000	3. Sub-acute sediment study using <i>Hexagenia</i>	6/30/2002	45702703	Review completed, non-guideline study rated unacceptable	2/4/2013	Supplemental - EFED has determined that no additional data/information is required, after assessing registrant's response(D427543)
<i>Methoxyfenozide</i>	RD	7/5/2000	4. Chronic Sediment Study using <i>Chironomus riparius</i>	6/30/2002	45032801	Review completed, non-guideline, rated supplemental	2/3/2000	Supplemental - EFED has determined that no additional data/information is required, after assessing registrant's response(D427543)
<i>Methoxyfenozide</i>	RD	7/5/2000	5. Honey Bee Brood Studies	6/30/2002	45065501, 48350501, 48962201	Review completed, non-guideline studies for MRIDs 45065501, 48350501 and 48962201, rated supplemental		Supplemental – At this time, pollinator policy considerations have not determined that additional data will be necessary.
<i>Methoxyfenozide</i>	RD	7/5/2000	6. Residue in Almond Orchards Investigating Honey Bee and Bee products	6/30/2002	48962202	Satisfied	10/3/2012	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Methoxyfenozide</i>	RD	7/5/2000	7. Dow prepared risk assessment for Honey Bee Brood	6/30/2002	48962203	Review completed, non-guideline, rated supplemental	10/3/2012	Supplemental – At this time, pollinator policy considerations have not determined that additional data will be necessary.
Metofluthrin	RD	9/29/2006	1. Fish toxicity bluegill study	9/29/2008	47414002	Satisfied	4/30/2008	
<i>Metofluthrin</i>	RD	9/29/2006	2. Honey bee acute contact	9/29/2008	47046301, 47414001	Satisfied	2/2/07, 4/30/08	
Metrafenone	RD	11/24/2010	1. Immunotoxicity study needed for future uses	11/30/2012	48981302	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	2. Method validation data must be submitted for Method FAMS 105-01 reflecting fortifications at 4.5 ppm for grapes, and at both the LOQ (0.05 ppm) and 17 ppm for raisins.	11/30/2012	48981303, 48981304	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	3. Radiovalidation for method FAMS 105-01 to demonstrate recovery of weathered residues of metrafenone from grapes. Cucumber data may be submitted in lieu of grapes if the data show adequate extractability by 9:2 n-hexane/acetone	11/30/2012	48981305-48981308	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	4. Radiovalidation data are required to support the data collection method, BASF Method 535/0. Samples from the cucumber metabolism study currently in progress may also be used to generate these data.	11/30/2012	48981305-48981308	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	5. Avian acute oral with passerine birds	11/30/2012	48981309	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	6. Acute tox freshwater fish	11/30/2012	48981310	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	7. Chronic freshwater fish early-life stage	11/30/2012	48981311	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	8. Chronic aquatic freshwater invertebrate life-cycle	11/30/2012	48981312	Satisfied	11/13/2012	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Metrafenone</i>	RD	11/24/2010	9. Acute marine/estuarine invertebrate	11/30/2012	48981313	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	10. Aquatic vascular plant growth Tier II	11/30/2012	48981314	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	11. Aquatic non-vascular Tier II	11/30/2012	48981315-21	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	12. Chronic freshwater invertebrate whole sediment on TGAI for Chironomus dilutus	11/30/2012	48981320-22	Satisfied	11/13/2012	
<i>Metrafenone</i>	RD	11/24/2010	13. Storage stability and corrosion characteristics	11/30/2012	48981301	Satisfied	11/14/2012	
Milbemectin	RD	9/29/2003	1. Acute inhalation toxicity (technical)-rat (not upgradable-must be repeated)	5/29/2004	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	2. 28-day dermal toxicity-rabbit (not upgradable-must be repeated)	9/29/2005	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	3. Prenatal developmental toxicity-rabbit (possibly upgradable)	9/29/2005	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	4. Prenatal development toxicity- rat (possibly upgradable)	9/29/2005	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	5. Multigeneration reproductive toxicity-rat (possibly upgradable)	9/29/2007	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	6. Estuarine fish early life-stage-sheepshead minnow	9/29/2004	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	7. Estuarine invertebrate life-stage- mysid	9/29/2004	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	8. Aquatic acute sediment toxicity testing	9/29/2004	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	9. Anaerobic aquatic metabolism (possibly upgradable)	9/29/2005	N/A	Cancelled	N/A	Voluntarily cancelled.
<i>Milbemectin</i>	RD	9/29/2003	10. Bioconcentration in fish (possibly upgradable)	9/29/2005	N/A	Cancelled	N/A	Voluntarily cancelled.
Nicarbazin	RD	11/23/2005	1. Storage stability and corrosion characteristics studies	11/23/2006	46416408	Satisfied	1/12/2005	
Novaluron	RD	9/25/2001	1. 90-day inhalation toxicity study in rats	9/25/2003	Waiver requested	Waived	N/A	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Novaluron</i>	RD	9/25/2001	2. Two mutagenicity studies: In vitro mammalian cell gene mutation and in vivo cytogenetics assay	9/25/2003	45638321, 45638222	Satisfied	3/22/2002	
Orthosulfamuron	RD	2/22/2007	1. Results of one year storage stability and corrosion characteristics		46712101	Satisfied	12/16/2005	Satisfied with MRID 49649200.
<i>Orthosulfamuron</i>	RD	2/22/2007	2. Analytical reference standard to the National Pesticide Standards Repository		Sample(s) received on 6/25/08	Satisfied	Sample(s) received on 6/25/08	
<i>Orthosulfamuron</i>	RD	2/22/2007	3. Dates of sample extraction, initial TLC analysis, and metabolite identification analyses in order to determine sample storage intervals for the submitted goat metabolism study. (If the initial quantitative TLC analyses were conducted within 6 months of sample collection		Information provided in letter dated 9/27/07	Satisfied	Information provided in letter dated 9/27/07	
<i>Orthosulfamuron</i>	RD	2/22/2007	4. Radiovalidation data (using samples from the rice metabolism study) for the method chosen for tolerance enforcement purposes		47030001	Satisfied	1/16/2007	
<i>Orthosulfamuron</i>	RD	2/22/2007	5. Recovery data using specific directions for each multiresidue method used by FDA		47674201	Satisfied	2/12/2009	
Penoxsulam	RD	9/27/2004	1. Seed germination/seeding emergence studies, vegetative vigor studies, and an aquatic plant growth study using Duckweed with the degradates, BSA, 2-amino-TP, TPSA, BSTCA methyl, BSTCA, 2-amino-TCA, 5-OH-penoxsulam, SFA, sulfonamide, 5, 8-di-OH and 5-OH 2 amino TP		46758301, Exhibit A in 46758300	Satisfied	2/13/2006	
<i>Penoxsulam</i>	RD	9/27/2004	2. Test terrestrial plants using the liquid and end-use products of penoxsulam.		46930301, 46930302	Satisfied	2/13/2003	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Penoxsulam</i>	RD	9/27/2004	3. Enforcement method revised as recommended in the Analytical Chemistry laboratory memo dated 9/17/2004		46389701	Satisfied	10/26/2004	
<i>Penoxsulam</i>	RD	9/27/2004	4. One year storage stability and corrosion characteristics		46433901, 46433902, 46449901	Satisfied	12/28/04, 12/28/04, 1/24/05	
Penthiopyrad	RD	2/29/2012	1. Estuarine/marine invert acute tox			Satisfied	1/26/2012	
<i>Penthiopyrad</i>	RD	2/29/2012	2. Estuarine/marine fish acute tox			Satisfied	1/26/2012	
<i>Penthiopyrad</i>	RD	2/29/2012	3. Tier II Seedling emergence study		49316402	Satisfied	2/11/1014	
<i>Penthiopyrad</i>	RD	2/29/2012	4. Tier II vegetative vigor study		49316403	Satisfied	2/11/1014	
Picaridin	RD	12/7/2000	1. 5 week oral toxicity study in rats	4/15/2001	45387901	Satisfied	12/1/2002	
<i>Picaridin</i>	RD	12/7/2000	2. 14 week oral toxicity study in rats.	4/15/2001	45387902	Satisfied	12/1/2002	
<i>Picaridin</i>	RD	12/7/2000	3. Submit the protocol and locations for conduct of the 2001 market test for 2000 human subjects.	3/1/2001	Correspondence - no MRID assigned	Satisfied	2/28/2001	
<i>Picaridin</i>	RD	12/7/2000	4. Submit the results of the marketing test with up to 2000 subjects.	12/1/2001	Correspondence - no MRID assigned	Satisfied	9/27/2001	
Pinoxaden	RD	7/27/2005	1. Additional validation data for pinoxaden and M2 residues in livestock commodities		47293207	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	2. Storage Stability Data for Rotational Crops in barley for 15 months and wheat for 6 months.		47293208	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	3. Fish acute toxicity tests required for parent pinoxaden to replace supplemental studies		47293202	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	4. Freshwater invertebrate acute toxicity study for parent pinoxaden to replace an unacceptable study		47293210	Satisfied	11/30/2007	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Pinoxaden</i>	RD	7/27/2005	5. Estuarine/marine fish acute toxicity test using parent pinoxaden to replace a supplemental study		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	6. Estuarine/marine shrimp acute toxicity test is required using parent pinoxaden to replace a supplemental study.		47293201	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	7. Freshwater fish early life-stage study using parent pinoxaden		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	8. Freshwater invertebrate life-stage study required using pinoxaden		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	9. Avian dietary studies in mallard duck and bobwhite quail for the formulated product with adjuvant		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	10. Acute fish toxicity for the degradate NOA-407854 on warm water species only, for the degradate NOA-447204 on warm water and cold water species, and for the formulated product with adjuvant on warm water and cold water species		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	11. Freshwater invertebrate life-cycle studies for the degradate NOA-447204 and formulated product with adjuvant		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	12. Marine-estuarine shell deposition studies for the degradates NOA-407854 and NOA-447204.		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	13. Freshwater fish early life-stage studies for the degradate NOA-407854, and the degradate NOA-447204		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	14. Freshwater invertebrate life-cycle studies for the degradate NOA-447204, and for the degradate NOA -407854 to replace a supplemental study.		47293210	Satisfied	11/30/2007	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Pinoxaden</i>	RD	7/27/2005	15. Seedling emergence and vegetative vigor studies for each of the two main degradates NOA-407854 and NOA-447204		47293204, 47293205, 47293206	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	16. Tier II Aquatic plant growth studies for the parent pinoxaden, degradates NOA-407854 and NOA-447204, and for the formulation with adjuvant		47293210	Satisfied	11/30/2007	
<i>Pinoxaden</i>	RD	7/27/2005	17. 830 Series subgroup A required for the pinoxaden technical produced on a commercial scale.		46701301	Satisfied	11/30/2007	
Prohexadione Calcium	RD	4/26/2000	1. Storage stability on the processed commodities of peanuts	4/30/2001	45190501, waiver requested	Waived	8/16/2000	
<i>Prohexadione Calcium</i>	RD	4/26/2000	2. 21-day dermal toxicity study in rabbits	10/31/2001	45430301	Satisfied	6/18/2001	
Propoxycarbazone-sodium	RD	6/30/2004	1. Additional storage stability data for mustard greens and turnips to validate the submitted field rotational crop study	6/30/2006	46874601	Satisfied	6/30/2006	
<i>Propoxycarbazone-sodium</i>	RD	6/30/2004	2. Study monitoring of "carboxylic acid" degradate to determine if it is accumulating in ponds, lakes and reservoirs near propoxycarbazone use areas	6/30/2006	46365701, waiver request	Waived	9/20/2004	Waiver granted 4/26/2005
Prothioconazole	RD	3/27/2007	1. Developmental neurotoxicity study, brain morphometric measurements from the mid and low dose animals, also addressing the other deficiencies listed in the DER to allow the reconsideration of the FQPA database uncertainty factor	12/1/2007	47293901	Satisfied	12/3/2007	
<i>Prothioconazole</i>	RD	3/27/2007	2. Final report of the ongoing storage stability study with prothioconazole and desthioprothioconazole in plant commodities	3/31/2008	47408201	Satisfied	4/21/2008	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Prothioconazole</i>	RD	3/27/2007	3. Poultry feeding study with prothioconazole	6/30/2008	47492801	Satisfied	7/30/2008	
<i>Prothioconazole</i>	RD	3/27/2007	4. Data to confirm the degree of stability of the prothioconazole-4-hydroxy in ruminant fat for a duration of 45 days.	12/1/2007	47107801	Satisfied	4/17/2007	
<i>Prothioconazole</i>	RD	3/27/2007	5. Analytical reference standards for the following compounds: prothioconazole-desthio, prothioconazole sulfonic acid potassium salt, prothioconazole	7/1/2007	N/A	Satisfied	4/4/2007	
<i>Prothioconazole</i>	RD	3/27/2007	6. Raw data from field fortifications in MRID 46246447 (in addition to the percent conversions reported in the study)	12/1/2007	47337401	Satisfied	2/15/2008	
<i>Prothioconazole</i>	RD	3/27/2007	7. Proposed data collection and enforcement methods for livestock commodities must be validated for poultry commodities. The EPA labs validated the livestock method for liver and milk. If the poultry method is the same or essentially the same, then the registrant at a minimum must present an argument and confirm (in writing) that the cow liver LOQ covers chicken liver. At a max, the registrant must validate the method for poultry commodities, including a demonstration of the LOQs.	6/30/2008	47492801	Satisfied	7/30/2008	
<i>Prothioconazole</i>	RD	3/27/2007	8. Repeat sediment toxicity study using chironomids following Agency guidelines in which the chemical is first added to the sediment	12/1/2007	47626901	Satisfied	12/17/2008	
PT807-HCl	RD	12/30/1999	1. Anaerobic Soil Metabolism	12/30/2000	N/A	Cancelled	N/A	There are no active registrations. All registrations cancelled

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>PT807-HCl</i>	RD	12/30/1999	2. Anaerobic Aquatic Metabolism	12/30/2000	N/A	Cancelled	N/A	There are no active registrations. All registrations cancelled
<i>PT807-HCl</i>	RD	12/30/1999	3. Aged Leaching	10/30/2001	N/A	Cancelled	N/A	There are no active registrations. All registrations cancelled
<i>PT807-HCl</i>	RD	12/30/1999	4. Terrestrial Field Dissipation	6/30/2001	N/A	Cancelled	N/A	There are no active registrations. All registrations cancelled
<i>PT807-HCl</i>	RD	12/30/1999	5. Developmental Rat Neurotoxicity study	12/30/2000	N/A	Cancelled	N/A	There are no active registrations. All registrations cancelled
Pyraclostrobin	RD	9/30/2007	1. Annually by December 31 of each year and beginning in 2003, report percent crop treated data for pyraclostrobin for each crop pyraclostrobin is sold for use		BASF submitted PCT data in December of each year, beginning in 2003 through 2010	Satisfied		EPA informed BASF on March 23,2011 (via email) that PCT data is no longer required
<i>Pyraclostrobin</i>	RD	9/30/2007	2. 2 year chronic toxicology study in rats must be submitted for female rats. The primary deficiency in the results for female rats in the study previously submitted is that the highest dose was well below the sub-chronic maximum dose and there were no significant treatment-related toxicological effects.	9/30/2006	BASF submitted additional supporting data in 2/1/2002 in advance of the registration decision. 45596201 and 45596202-45596206 (supplemental information)	Satisfied	2/1/2002	EPA upgraded study to acceptable for both male and female rats 9/10/2003
<i>Pyraclostrobin</i>	RD	9/30/2007	3. 18-month carcinogenicity study in mice must be submitted for female rats. The primary deficiency in the results for female mice in the study previously submitted is that the highest administered dose was well below the subchronic maximum tolerated dose and there were no significant systemic treatment-related toxicological effects of the dosing.	9/30/2006	46678201	Satisfied	10/27/2005	EPA report from CARC of 2/15/2007 indicates data requirement has been satisfied

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Pyraclostrobin</i>	RD	9/30/2007	4. 2 generation repro study in rats; primary deficiencies in the study previously submitted are that there were no adverse, treatment-related maternal, reproductive, or offspring effects at the highest dose tested, and the limit dose was not approached.	9/30/2005	45596210 submitted in advance of the registration decision	Satisfied	2/1/2002	Original study upgraded to acceptable in HIARC memo of 2/10/2003
<i>Pyraclostrobin</i>	RD	9/30/2007	5. 28-day dermal toxicity study in rats	9/30/2004	45596201 submitted in advance of the registration decision	Satisfied	2/1/2002	Original study upgraded to acceptable in HIARC memo of 2/10/2003
<i>Pyraclostrobin</i>	RD	9/30/2007	6. 28-day inhalation study in rats	9/30/2004	46638801	Satisfied	9/6/2005	
<i>Pyraclostrobin</i>	RD	9/30/2007	7. Aerobic aquatic metabolism study	9/30/2005	rebuttal submitted 45826701	Satisfied	12/18/2002	
<i>Pyraclostrobin</i>	RD	9/30/2007	8. Acute aquatic toxicity of pyraclostrobin degradates BF 500-3 and BF 500-6 to freshwater fish	9/30/2005	46164001, 46164002, 46164003	Satisfied	12/29/2003	Waiver request requested and reviewed
<i>Pyraclostrobin</i>	RD	9/30/2007	9. Acute aquatic toxicity of pyraclostrobin degradates BF 500-3 and BF 500-6 to freshwater invertebrates	9/30/2005	46164001, 46164002, 46164003	Satisfied	12/29/2003	Waiver request requested and reviewed
<i>Pyraclostrobin</i>	RD	9/30/2007	10. Acute aquatic toxicity of pyraclostrobin degradates of BF 500-3 and BF 500-6 to freshwater green algae	9/30/2005	46164001, 46164002, 46164003	Satisfied	12/29/2003	Waiver request requested and reviewed
<i>Pyraclostrobin</i>	RD	9/30/2007	11. Acute toxicity of pyraclostrobin to sediment-dwelling organisms	9/30/2005	49080401, 49080402, 45826705, 46164003	Satisfied	3/11/13, (12/29/2003)	EPA classified the studies that were received in 2003 as supplemental; new studies were received on 3/11/2013
<i>Pyraclostrobin</i>	RD	9/30/2007	12. Mysid life-cycle study		46227601 (supplemental), 49302901	Satisfied	01/23/2014, 3/17/2004	Satisfied - 49302901 Supplemental (46227601)
<i>Pyraclostrobin</i>	RD	9/30/2007	13. Avian acute toxicity study using the formulated product Headline EC	9/30/2005	45826702	Satisfied	12/18/2002	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Pyraclostrobin</i>	RD	9/30/2007	14. Fish acute toxicity study using the formulated product Headline EC		45826703, 45826704, 46164001/2/3	Satisfied	12/18/2002	
<i>Pyraclostrobin</i>	RD	9/30/2007	15. Modify tolerance enforcement methods for determination of pyraclostrobin and its desmethoxy metabolite in or on plant commodities - the LC/MS/MS method D9808 and the HPLC/UV method D9904 to include any modifications made by the EPA laboratory during the Agency laboratory validation.		46710001	Satisfied	12/7/2005	
<i>Pyraclostrobin</i>	RD	9/30/2007	16. Modify tolerance enforcement methods for determination of residues of pyraclostrobin in or on ruminant commodities - the HPLC/UV method 439/0 and the HPLC/UV method 446 to include any modifications made by the EPA laboratory during the Agency laboratory validation.		46710001	Satisfied	12/7/2005	
<i>Pyraclostrobin</i>	RD	9/30/2007	17. Data to support storage conditions of milk and fat tissue samples from ruminant study	9/30/2004	45765401	Satisfied	9/25/2002	Supported HED memo - 7/26/2004
<i>Pyraclostrobin</i>	RD	9/30/2007	18. Study confirming that rotational crop samples were analyzed within the interval represented by the storage stability study must be submitted.	9/30/2004	46469501	Satisfied	2/9/2005	
Pyraflufen-ethyl	RD	9/27/2002	1. Photolysis in water using pyraflufen-ethyl and all possible transformation products	12/31/2003	46162701, 46162702	Satisfied	12/31/2003	
<i>Pyraflufen-ethyl</i>	RD	9/27/2002	2. Avian reproduction studies	12/31/2003	46447901	Satisfied	1/18/2005	
<i>Pyraflufen-ethyl</i>	RD	9/27/2002	3. Phototoxicity fish early life stage study using transformation product E-1 and transformation product E2.	12/31/2003	48409701	Satisfied	3/2/2011	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Pyraflufen-ethyl</i>	RD	9/27/2002	4. 28-day Inhalation study	12/31/2003	48381204	Satisfied	2/10/2011	
<i>Pyraflufen-ethyl</i>	RD	9/27/2002	5. Preliminary analysis (830.1700) conducted in compliance with the GLP requirements of 40CFR160.	12/31/2003	46162701	Satisfied	12/31/2003	
Pyrasulfotole	RD	8/9/2007	1. Storage stability and corrosion characteristics studies	8/9/2008	47309101	Satisfied	12/27/2007	
<i>Pyrasulfotole</i>	RD	8/9/2007	2. In vivo dermal penetration study	8/9/2009	47860001	Satisfied	9/18/109	
<i>Pyrasulfotole</i>	RD	8/9/2007	3. Revisions to the analytical methods	8/9/2009	47806401	Satisfied	7/17/2009	
<i>Pyrasulfotole</i>	RD	8/9/2007	4. Analytical reference standard for pyrasulfotole, pyrosulfotole-desmethyl and labeled internal standards to the EPA National Pesticide Standards Repository	8/9/2009	47806401	Satisfied	7/17/2009	
<i>Pyrasulfotole</i>	RD	8/9/2007	5. Toxicity of residues in sediment to benthic organisms (freshwater and marine)	8/9/2009	47552401	Satisfied	9/29/2008	
Pyridalyl	RD	4/24/2008	1. Dissociation Constant		47664701	Satisfied	2/3/2009	
Pyroxsulam	RD	2/27/2008	1. One-year storage stability and corrosion characteristics studies	2/27/2009	47711901	Satisfied	3/25/2009	
Quinoxifen	RD	9/30/2003	1. Dermal penetration	10/1/2004	47830401, 47476901	Satisfied	3/2/2010 and 3/11/2009	
<i>Quinoxifen</i>	RD	9/30/2003	2. 28-day inhalation (rat)	1/1/2005	Waiver requested	Waived	4/1/2004	
<i>Quinoxifen</i>	RD	9/30/2003	3. Avian reproduction study with the mallard duck for parent and metabolite	10/1/2005	45360412 Waiver requested for parent, 48991801 study for metabolite.	Waiver granted for parent; requirement satisfied for metabolite	3/25/2004, 11/12/2012	Waiver granted for parent; study was held in reserve for the metabolite until a method was developed.
<i>Quinoxifen</i>	RD	9/30/2003	4. Chronic Toxicity (Marine/Estuarine Fish and Invertebrates)		48102301, 48102302, 49622601, 49645701	Satisfied	4/27/2015	
<i>Quinoxifen</i>	RD	9/30/2003	5. Acute Avian Reproduction	7/1/2004	47783301 waiver requested	Waiver granted	4/28/2005	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Quinoxifen</i>	RD	9/30/2003	6. Acute Oral (rat)	7/1/2004	46360401	Satisfied		
Saflufenacil	RD	9/3/2009	1. Fish early life-stage toxicity with modified lighting for LDPH chemicals		N/A	Waiver granted	N/A	This is no longer a requirement for this chemical. Three ai's were chosen to submit the study, and this was not in that group. The data received supported EFED's earlier conclusions regarding LDPH phototoxicity, so no further information is needed on this topic for saflufenacil at this time.
<i>Saflufenacil</i>	RD	9/3/2009	2. Immunotoxicity study		48233701	Satisfied	10/14/2010	
<i>Saflufenacil</i>	RD	9/3/2009	3. One year storage stability and corrosion characteristics		47913803	N/A	4/27/2010	
<i>Saflufenacil</i>	RD	9/3/2009	4. 830 series group A data (including a revised basic CSF) for the BAS 800H TGAI/MUP when the product is produced on commercial scale		47913802, 48445701	Satisfied	4/27/2010	
Spinetoram	RD	9/28/2007	1. Successful PMV of plant and livestock enforcement methods	3/28/2008	48875802	Satisfied	6/29/12	
<i>Spinetoram</i>	RD	9/28/2007	2. Poultry feeding study	3/28/2009	47396302 Waiver requested	Waived	4/9/2008	
<i>Spinetoram</i>	RD	9/28/2007	3. Processing studies	9/28/2009	47453501	Satisfied	6/20/08	
<i>Spinetoram</i>	RD	9/28/2007	4. Analytical reference standards	3/28/2008	48875802	Satisfied	6/29/12	
<i>Spinetoram</i>	RD	9/28/2007	5. Acute freshwater invertebrate	6/28/2008	47359202, 47359203	Satisfied	2/29/2008	
<i>Spinetoram</i>	RD	9/28/2007	6. Oyster acute toxicity test (shell deposition) raw data or new study	6/28/2008	47359201	Satisfied	2/29/2008	
<i>Spinetoram</i>	RD	9/28/2007	7. Acute estuarine/marine fish	9/28/2009	47767601	Satisfied	6/3/2009	
<i>Spinetoram</i>	RD	9/28/2007	8. Acute freshwater fish	9/28/2008	47902003, 47902004	Satisfied	11/3/2009	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Spinetoram</i>	RD	9/28/2007	9. Mysid chronic toxicity test	2/28/2009	47790501	Satisfied	6/30/2009	
<i>Spinetoram</i>	RD	9/28/2007	10. Whole sediment acute toxicity invertebrates, estuarine and freshwater	2/28/2009	47689701	Satisfied	2/27/2009	
<i>Spinetoram</i>	RD	9/28/2007	11. Honey bee toxicity of residues on foliage	2/28/2009	47689702	Satisfied	2/27/2009	
<i>Spinetoram</i>	RD	9/28/2007	12. 5-batch preliminary analysis data on this technical product produced on large or commercial scale, along with a revised CSF	12/31/2007	47306602, 47306603, 48085901	Satisfied	12/18/17, 5/5/10-(901)	
Spirodiclofen	RD	6/30/2005	1. Details of the commercial scale production process for the TGAI/MUP for the facility located in Germany	6/30/2007	47024301	Satisfied	1/8/2007	
<i>Spirodiclofen</i>	RD	6/30/2005	2. 5-batch analysis for the TGAI/MUP batches produced on a commercial scale, also submit a revised basic formulation based on the 5-batches produced on a commercial scale	6/30/2007	47024301	Satisfied	1/8/2007	
<i>Spirodiclofen</i>	RD	6/30/2005	3. Apple (juice) and grape (juice) processing studies which monitor for residue of spirodiclofen	6/30/2007	47168602, 47168601	Satisfied	7/2/2007	
<i>Spirodiclofen</i>	RD	6/30/2005	4. Additional morphometric analyses of the caudate putamen, parietal cortex, hippocampal gyrus, and dentate gyrus at the mid and low doses are required for both sexes in the developmental neurotoxicity study	6/30/2007	47166501	Satisfied	6/28/2007	
<i>Spirodiclofen</i>	RD	6/30/2005	5. Repeated freshwater fish acute toxicity study using bluegill sunfish	6/30/2007	Waiver requested	Waived	N/A	
<i>Spirodiclofen</i>	RD	6/30/2005	6. Repeated freshwater fish acute toxicity study using rainbow trout	6/30/2007	Waiver requested	Waived	N/A	
<i>Spirodiclofen</i>	RD	6/30/2005	7. Repeated freshwater invertebrate toxicity study using daphnia magna	6/30/2007	Waiver requested	Waived	N/A	

New Active Ingredient Registration Status
2000-2020

Chemical	Division	Reg Notice Date	Conditional Data Requirement(s)	Due Date	MRID for Study Submitted	Review Status	Date Data Received	Comments
<i>Spirodiclofen</i>	RD	6/30/2005	8. Repeated estuarine/marine acute toxicity -sheepshead minnow	6/30/2007	Waiver requested	Waived	N/A	
<i>Spirodiclofen</i>	RD	6/30/2005	9. Repeated estuarine/marine acute toxicity - mysid shrimp	6/30/2007	Waiver requested	Waived	N/A	
Spiromesifen	RD	5/3/2005	1. Additional storage stability data for rotational crops	11/3/2007	47293301	Satisfied	5/18/2007	
<i>Spiromesifen</i>	RD	5/3/2005	2. Avian reproduction study using bobwhite quail and mallard duck	5/3/2007	47133101, 47142201	Satisfied	11/30/07, 5/31/07	
<i>Spiromesifen</i>	RD	5/3/2005	3. Chironomid sediment toxicity test	5/3/2007	47133102, 47133103	Satisfied	5/18/2007	
<i>Spiromesifen</i>	RD	5/3/2005	4. Chronic field test for pollinators	5/3/2007	47344401	Satisfied	2/12/2008	Requirement satisfied with the supplemental study and pollinator issue has been forwarded to the active Reg Review case for resolution.
<i>Spiromesifen</i>	RD	5/3/2005	5. Preliminary commercial scale		46825601	Satisfied	9/8/2006	
Spirotetramat	RD	6/30/2008, 10/15/2010	1. New photodegradation on soil study, conducted on sterile soil	6/30/2009	47576501, 47576502	Satisfied	10/22/2008	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	2. Soil taxonomy for the Saskatoon loam soil from Saskatchewan, Canada	12/30/2009	Letter	Satisfied	1/09	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	3. Avian reproduction study with the mallard duck	6/30/2010	48958801	Satisfied	5/11/2009, 10/11/2012	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	4. Field testing for pollinators	6/30/2010	47576401, 47563302, 47563303, 47563304, 47563305, 47563306, 47563307, 47563308, 47563309, 47563310, 47563311, 47563312	Satisfied	10/22/08 (first 2), 10/7/08 (the rest)	Further testing may be required pending protocol development.
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	5. Freshwater fish toxicity with fathead minnows	6/30/2009	47774301	Satisfied	6/10/2009	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	6. Avian oral toxicity study with passerine species	6/30/2009	47774302	Satisfied	6/10/2009	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	7. One-year storage stability and corrosion characteristic studies	6/30/2009	48002901	Satisfied	3/3/2010	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	8. Full scale five-batch preliminary analysis of the technical material	6/30/2009	48525902, 4852903, 48525904	Satisfied	7/1/2011	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	9. Avian Reproduction with Mallard Duck (required in 10/15/2010 decision)	5/15/2011	48958801	Satisfied	10/11/2012	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	10. Immunotoxicity (required in 10/15/2010 decision)	10/15/2011	48525901	Satisfied	7/1/2001	
<i>Spirotetramat</i>	RD	6/30/2008, 10/15/2010	11. Subchronic neurotoxicity (required in 10/15/2010 decision)	10/15/2011	48958802	Satisfied	10/11/2012	
Spiroxamine	RD	7/16/2004	1. Modify the confirmatory method to use more than single-ion monitoring or conduct an interference study	7/31/2005	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	2. Storage and stability data for the hops trials which were conducted in Germany	12/31/2004	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	2a. Storage stability for bananas frozen for 6 months	12/31/2004	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	3. Two-Generation Reproduction Study-Rat (Additional data to clarify lactation indices and clinical signs of toxicity in the second generation in the submitted study (if data is insufficient to upgrade study, a new two-generation reproduction study must be submitted with any future new uses)	12/30/2004	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	4. Adsorption/Desorption study with soils from hop-growing areas	9/30/2005	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	5. Freshwater fish (Bluegill sunfish)-Acute	9/30/2005	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	6. Freshwater fish rainbow trout-Acute	9/30/2005	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
<i>Spiroxamine</i>	RD	7/16/2004	7. Aquatic plant growth (conducted at maximum seasonal use rate)	9/30/2005	N/A	Cancelled	N/A	Products cancelled 5/23/2012.
Tebufenpyrad	RD	8/26/2002	1. 90-day inhalation study			Cancelled		No active registrations. Registration Review also closed in Federal Register notice on March 30, 2015.

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Tembotrione	RD	9/28/2007	1. Analytical reference standard for tembotrione and its M5 metabolite to the EPA National Pesticide Standards Repository	3/28/2008	N/A	Satisfied	7/23/2008	Confirmed receipt of standard by Ft. Meade Laboratory (National Pesticide Standards Repository)
<i>Tembotrione</i>	RD	9/28/2007	2. Revision of enforcement methods LC/MS/Ms Methods AE/03/01 for plant commodities and 00967 for livestock commodities to include a calculation for the conversion of residues of the metabolite(s) to parent equivalents for quantitation	9/28/2008	47552801, 47552802	Satisfied	9/29/2008	
<i>Tembotrione</i>	RD	9/28/2007	3. Life cycle study of estaurine/marine invertebrates	9/8/2009	47623501	Satisfied	12/15/2008	
<i>Tembotrione</i>	RD	9/28/2007	4. Chemical-specific dislodgeable foliar residue study	9/28/2009	47305501 Waiver requested	Waived	12/19/2007	Waiver granted 10/10/2008
Tepraloxydim	RD	8/8/2001	1. 28-day Inhalation Study	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	2. Developmental neurotoxicity study	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	3. Residue data on soybean aspirated grain fractions (grain dust)	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	4. Aerobic aquatic metabolism study	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	5. Leaching adsorption/desorption-mobility of aged residues	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	6. Photolysis in water	8/8/2005	N/A	Cancelled	N/A	
<i>Tepraloxydim</i>	RD	8/8/2001	7. Terrestrial field dissipation studies	8/8/2005	N/A	Cancelled	N/A	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Tetraconazole	RD	4/14/2005	1. Single side-by-side sugar beet field trial comparing two and six applications of Eminent 125SI at 0.10 lb ai/acre/application. The retreatment intervals for the plot receiving six applications should be 14 days and the RTI for the plot receiving two applications should be 21 days (the final application and harvest dates for each should be identical; preharvest interval (PHI) of 14 days; 4 samples from each plot should be collected	5/1/2007	47111401	Satisfied	4/23/2007	
<i>Tetraconazole</i>	RD	4/14/2005	2. 28-day inhalation study based on the current use pattern	2/1/2007	46990301	Satisfied	11/21/2006	
<i>Tetraconazole</i>	RD	4/14/2005	3. Study determining toxicity to benthic organisms (including chironomid)	1/1/2006	46614304	Satisfied	8/2/2005	
<i>Tetraconazole</i>	RD	4/14/2005	4. Study determining the toxicity to earthworms	12/1/2006	46614305, 46614306	Satisfied	8/2/2005	
<i>Tetraconazole</i>	RD	4/14/2005	5. New guideline adsorption/desorption study	11/1/2006	47023201	Satisfied	1/8/2007	
Thiacloprid	RD	9/26/2003	1. Confirmatory procedure for the livestock tissue analytical enforcement method	3/26/2004	waiver requested	Waived	1/14/2004	Waiver granted 12/16/04
<i>Thiacloprid</i>	RD	9/26/2003	2. Photodegradation in soil	9/26/2004	44927933	Satisfied	4/28/2004	Found to be acceptable 6/16/04
<i>Thiacloprid</i>	RD	9/26/2003	3. One year storage stability	9/26/2005	46462301	Satisfied	2/4/2005	Found to be acceptable 9/23/05
<i>Thiacloprid</i>	RD	9/26/2003	4. Corrosion characteristics	9/26/2005	46462301	Satisfied	2/4/2005	Found to be acceptable 9/23/05
<i>Thiacloprid</i>	RD	9/26/2003	5. Bioaccumulation in fish	9/26/2005	44927602 waiver requested	Waived	6/8/2004	MRID submitted supported waiver request which was granted on 8/3/04

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Thiacloprid</i>	RD	9/26/2003	6. Limited field accumulation studies in rotational crops for wheat and soybeans	9/26/2007	46677901, 46677902	Waived	10/28/2005	A waiver request was submitted along with data on wheat and soybeans. Data not reviewed since 12 month plant back interbal was retained.
<i>Thiacloprid</i>	RD	9/26/2003	7. Five batch analysis		46677905	Satisfied	10/28/2005	
Thiamethoxam	RD	12/4/2000	1. Modification of Method AG-675 to add microwave extraction of liver or a new enforcement method for liver, additional radiovalidation data for beef liver	3/4/2002	45659202, 45659203	Satisfied	4/23/2002	
<i>Thiamethoxam</i>	RD	12/4/2000	2. Storage stability data continued to cover the conditions and intervals that plant and animal commodity samples were stored (up to 30 months)	3/4/2002	45659204, 45659205	Satisfied	4/23/2002	
<i>Thiamethoxam</i>	RD	12/4/2000	3. Reanalysis of the cow liver samples from the feeding study using a microwave extraction step	3/4/2002	45659206	Satisfied	4/23/2002	
<i>Thiamethoxam</i>	RD	12/4/2000	4. Reanalysis of field rotational crop samples for metabolite CGA-265307 and description of storage conditions for future uses	3/4/2002	45659201	Satisfied	4/23/2002	
<i>Thiamethoxam</i>	RD	12/4/2000	5. Plant metabolism study on a leafy vegetable (Crop group 4 or 5)	3/4/2002	45093714	Satisfied	3/31/2000	
<i>Thiamethoxam</i>	RD	12/4/2000	6. Poultry metabolism study	3/4/2002	44703526, 44715115	Satisfied	11/19/98, 12/10/98	
<i>Thiamethoxam</i>	RD	12/4/2000	7. Developmental neurotoxicity study	12/4/2002	46028201, 46028202	Satisfied	7/3/2003	
<i>Thiamethoxam</i>	RD	12/4/2000	8. Repeated daphnia chronic study	12/4/2002	45500001	Satisfied	9/19/2001	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Thiencarbazone-methyl	RD	9/30/2008	1. Analytical reference standards: Thiencarbazone-methyl and its metabolites BYH 18636-MMT-glucoside, BYH 18636-MMT and isotopically labeled standards provided to the EPA National Pesticide Standards Repository	9/30/2009	sample(s) received	Satisfied	sample(s) received	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	2. Additional storage stability data (sample extraction and analysis dates for all samples) for the wheat crop field trial study	9/30/2010	47715301 49428301	Satisfied	3/27/2009 7/14/14	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	3. Immunotoxicity study	9/30/2010	48263001	Satisfied	10/15/2010	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	4. Terrestrial field dissipation guideline currently classified as supplemental-upgradable pending review of recently submitted additional soil storage stability data		47525801	Satisfied	9/2/2008	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	5. Additional data for the analytical method for the determination of residues of BYH18636 and its metabolites BYH18636-carboxylic acid, BYH18636-sulfonamide, BYH18636 sulfonamide-carboxylic acid, BYH18636-MMT, and BYH18636-triazolinone carboxamide in soil and sediment using LC-MS/MS	9/30/2010	47070114, 47070043, 47070118, 47070044.	Satisfied	10/4/2010	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	6. Independent laboratory validation of method GS-004-W06-01 for the determination of BYH18636 and its metabolites BYH18636-carboxylic acid, BYH18636-sulfonamide, BYH18636-sulfonamide carboxylic acid, BYH18636-MMT and BYH18636-dicarboxysulfonamide in water	9/30/2010	50091601, 50091602.	Satisfied	10/24/2016	
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	7. Storage stability study conducted for a minimum of one year ambient warehouse conditions must be repeated and submitted	9/30/2010	47069902 Waiver requested	Waiver granted	9/29/2010	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	8. Copy of analytical methods and samples	9/30/2009	47070114, 47070043, 47070118, 47070044.	Satisfied	10/4/2010	Samples received in Ft. Meade Lab.
<i>Thiencarbazone-methyl</i>	RD	9/30/2008	9. 5-batch analysis reflecting commercial scale production	9/30/2009	47918601	Satisfied	11/25/2009	
Tolfenpyrad	RD	7/28/2010	1. 90-day dermal toxicity study in rat, storage stability, corrosion characteristics	7/28/2011	482334021, 482334022	Satisfied	9/20/2010	
<i>Tolfenpyrad</i>	RD	7/28/2010	2. For prod. chem. review, submit analytical method as described in MRIDs 47447704 and 47447705, and samples to EPA lab for validation	7/28/2011	48660301	Satisfied	9/20/2010	
Topramezone (BAS 670H)	RD	8/10/2005	1. Aerobic aquatic metabolism	7/31/2008	47496702	Satisfied / Supplemental	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	2. Anaerobic Aquatic Metabolism	7/31/2008	47496703, 48600413	Satisfied / Supplemental	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	3. Mobility in Soils	7/31/2008	45902425, 46242703	Satisfied	3/28/03, 4/6/04	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	4. Frozen Storage Stability	7/31/2008	47496704, 47496705, 47496708	Not Classified / Satisfied determination pending	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	5. Avian Subacute Dietary	7/31/2008	47496708, 47496707	Satisfied	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	6. Avian Reproduction	7/31/2008	47496708, 47496707	Satisfied	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	7. Aquatic Invertebrate Life-cycle	7/31/2008	47496707, 49365103	Acceptable / Satisfied determination pending	8/1/2008	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	8. Aquatic Plant Growth (Tier II) (Navicula)	7/31/2008	48600403	Satisfied	3/2/2012	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	9. Seedling Emergence (Tier II)	7/31/2008	45902327	Satisfied	3/28/2003	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	10. Vegetative Vigor (Tier II)	7/31/2008	45902328	Satisfied	3/28/2003	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	11. Adequate storage stability data in the plant and livestock metabolism studies by 7/31/2008	7/31/2008	45902410	Satisfied	3/28/2003	
<i>Topramezone (BAS 670H)</i>	RD	8/10/2005	12. 5-batch analysis	7/31/2008	47496701	Satisfied	8/1/2008	
Trifloxysulfuron	RD	9/29/2003	1. Independently validated analytical chemistry methods to identify and quantify residues in water. These methods must be sufficiently sensitive to adequately determine NOAEC, EC05, and characterize residues in water resources	9/29/2008	47534701, 47534702	Satisfied	9/9/2008	
<i>Trifloxysulfuron</i>	RD	9/29/2003	2. Repeat of the Tier II aquatic vascular plant test on Lemma gibba with the technical in the acidic pH range	9/29/2008	47168201	Satisfied	7/2/2007	
<i>Trifloxysulfuron</i>	RD	9/29/2003	3. Repeat of the Tier II aquatic plant test on the blue-green algae Anabaena flos-algae with the technical	9/29/2008	47168202	Satisfied	7/2/2007	
<i>Trifloxysulfuron</i>	RD	9/29/2003	4. Product chemistry deficiencies	9/29/2008	47157600, 47157601	Satisfied	6/12/2007	
Triticonazole	RD	9/30/2002	1. Dermal sensitization study (870.2600)- submit positive control data conducted within 6 months of the study date for either MRID nos. 448020-34 or -35 or submit a new dermal sensitization study	10/1/2003	46817301	Satisfied	4/17/2006	
<i>Triticonazole</i>	RD	9/30/2002	2. 28-day (nose only) inhalation toxicity study in rats	10/1/2003	Waiver requested	Waived	3/15/2005	
<i>Triticonazole</i>	RD	9/30/2002	3. Developmental neurotoxicity study	10/1/2004	Waiver requested	Waived	5/20/2005	
<i>Triticonazole</i>	RD	9/30/2002	4. Rat metabolism study	10/1/2004	46503401	Satisfied	10/1/2004	
<i>Triticonazole</i>	RD	9/30/2002	5. Mechanistic study (to be discussed and designed in collaboration with the registrant)		N/A	Waived		

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
<i>Triticonazole</i>	RD	9/30/2002	6. Parital carcinogenicity study in the male rat at higher dose levels	12/1/2006	46552101 Waiver requested	Waived	5/23/2005	
<i>Triticonazole</i>	RD	9/30/2002	7. Additional storage and stability data	10/1/2004	47091801	Satisfied	3/29/2007	
<i>Triticonazole</i>	RD	9/30/2002	8. Avian Reproduction study in Bobwhite Quail	10/1/2004	48733902	Satisfied	2/1/2012	
<i>Triticonazole</i>	RD	9/30/2002	9. Acute Freshwater Fish Toxicity Study in Bluegill sunfish and rainbow trout	10/1/2003	46021001	Satisfied	6/30/2003	
<i>Triticonazole</i>	RD	9/30/2002	10. Freshwater Fish Early Life-Stage Toxicity Study	10/1/2004	46876702	Satisfied	7/3/2006	
<i>Triticonazole</i>	RD	9/30/2002	11. Freshwater Fish Chronic Life Cycle Toxicity Study	12/1/2004	46876703	Satisfied	7/3/2006	
<i>Triticonazole</i>	RD	9/30/2002	12. Acute Aquatic Invertebrate Freshwater Toxicity Study	10/1/2003		Satisfied		
<i>Triticonazole</i>	RD	9/30/2002	13. Daphnia magna Life-Cycle Toxicity Study	12/1/2004	46876701	Satisfied	7/3/2006	
<i>Triticonazole</i>	RD	9/30/2002	14. Acute Estuarine/Marine Aquatic Animal Toxicity Studies	10/1/2003		Satisfied		
<i>Triticonazole</i>	RD	9/30/2002	15. Fish Early Life-Stage Estuarine/Marine Toxicity Study	10/1/2003	46876702	Satisfied	10/1/2003	
<i>Triticonazole</i>	RD	9/30/2002	16. Estuarine/Marine Invertebrate Life-Cycle Toxicity Study	10/1/2003	48842801	Satisfied	10/1/2003	
<i>Triticonazole</i>	RD	9/30/2002	17. Additional aerobic metabolism study	10/1/2003	47296303 - Unacceptable 49017701 - In review	In review	12/5/2007, 12/13/2012	New Study incorporated into DRA for Registration Review. Final Review/DER forthcoming
<i>Triticonazole</i>	RD	9/30/2002	18. Aerobic aquatic metabolism study	12/1/2004	47296301	Satisfied	12/5/2007	
<i>Triticonazole</i>	RD	9/30/2002	19. Additional aqueous photolysis data	10/1/2003	47296302	Satisfied	12/5/2007	
<i>Triticonazole</i>	RD	9/30/2002	20. Corrected CSF and description of production process		46608801	Satisfied	7/27/2005	
Zoxamide	RD	4/11/2001	1. TLC scans for initial grape extracts	12/1/2001	454614402, 45461403	Satisfied	7/25/2001	

New Active Ingredient Registration Status
2000-2020

<u>Chemical</u>	<u>Division</u>	<u>Reg Notice Date</u>	<u>Conditional Data Requirement(s)</u>	<u>Due Date</u>	<u>MRID for Study Submitted</u>	<u>Review Status</u>	<u>Date Data Received</u>	<u>Comments</u>
Zoxamide	RD	4/11/2001	2. Substitution of derivatizing agent in the residue analytical method	12/1/2001	45437801, 45437802	Satisfied	6/25/2001	
Zoxamide	RD	4/11/2001	3. Incorporate changes resulting from method review	12/1/2001	Rebuttal to review submitted	Satisfied		
Zoxamide	RD	4/11/2001	4. Protocol first then pulmonary sensitization study	12/1/2001	45568300 Waiver requested	Waived		
Zoxamide	RD	4/11/2001	5. Storage stability data for the grape processing study	12/1/2001	45461402, 45461403	Satisfied	7/25/2001	
Zoxamide	RD	4/11/2001	6. Product stewardship plan for monitoring and recording incidents related to inhalation and dermal sensitization. Biannual reports required.	12/1/2001	N/A	Satisfied	N/A	Report received. No incidents reported. No longer required.
Zoxamide	RD	4/11/2001	7. Full scale production data including 5 batch analysis	12/1/2001	45568301, 45568302	Satisfied	12/20/2001	
Zoxamide	RD	4/11/2001	8. Resistance monitoring data for potatoes	12/1/2001	45568303, 45568304, 45568305	Satisfied	12/20/2001	Submitted as part of harmonization effort with PMRA. BEAD determined data no longer needed.
Zoxamide	RD	4/11/2001	9. Proximity information of endangered, threatened freshwater fish and estuarine/marine invertebrates to use sites	12/1/2001	Waiver requested	Waived	12/20/2001	Registrant is member of Endangered Species Task Force