

Ecological Risk Assessment



Award-Winning Consultancy Providing Innovative Solutions to Meet Regulatory and Environmental Challenges

Ecotoxicology & Risk Assessment Support in North America

Our ecotoxicologists support a wide range of services to determine risks to wildlife and the environment including aquatic and terrestrial study design, ecological modeling and risk assessment, endangered species strategy and risk assessment, placement and monitoring of regulatory studies, and expert advice on product registration. Members of our team have served as study directors for laboratory, semi-field and field ecotoxicology studies, having direct experience with research and risk assessments involving non-target aquatic and terrestrial organisms.

In North America, we have significant organism-specific expertise and work closely with clients on diverse projects concerning aquatic and terrestrial species, especially pollinators, avian and aquatic species. We can apply our ecotoxicological and ecological knowledge to assessments for both threatened and endangered and non-listed species.

Regulatory Strategy

- Risk assessment for crop protection product registration and registration review
- Agency liaisons (EPA, FWS, NMFS, USDA, PMRA, CDPR, etc.) to define regulatory and technical approaches
- Strategies for best use of data from guideline-driven laboratory and field studies
- Data gap analysis
- Risk mitigation measures & strategies
- Product stewardship
- Client representation on industry trade association consortia
- Serve in administrative and lead technical roles on chemical task forces, including the FIFRA Endangered Species Task Force (FESTF)

Ecological Risk Assessment

- Interpretation of data from laboratory and field studies
- Exposure modeling and spatial analysis
- Environmental Impact Statements (EIS)
- Probabilistic risk assessment
- Determination of optimal pesticide use and labeling specifications
- Endangered species assessment

Study Design, Placement & Monitoring

- Design of standard and customized laboratory and field studies to support pollinator, avian and other vertebrate wildlife, and aquatic data requirements
- Residue studies (including pollen & nectar residue studies)
- Advice on welfare including animal husbandry and laboratory logistics
- Placement and monitoring of required ecotoxicology studies at Contract Research Organizations (CROs)
- Review and interpretation of study results
- Good Laboratory Practice (GLP) compliance consulting
- Compliance with Office of Prevention, Pesticides and Toxic Substances (OOPTS) and Organisation for Economic Co-operation and Development (OECD) testing methods

Comprehensive Applications

- Evaluation of public domain scientific literature and company-generated data in support of registration
- Database compilation, management, curation and analysis
- Endocrine disruptor data review
- Weight of Evidence (WoE) reviews and expert statements



Global Regulatory and Environmental Strategies since 1988

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Ecotoxicology & Risk Assessment Support in Europe (EEA / UK)

Our ecotoxicologists support a wide range of services to determine risks to wildlife and the environment including aquatic and terrestrial study design, ecological modeling and risk assessment, endangered species strategy and risk assessment, placement and monitoring of regulatory studies, and expert advice on product registration. Members of our team have served as study directors for laboratory, semi-field and field ecotoxicology studies, having direct experience with research and risk assessments involving non-target aquatic and terrestrial organisms.

In Europe, we have extensive experience of ecological risk assessments to support plant protection products, biocidal products and industrial chemicals (REACH) registrations.

Regulatory Strategy

- Preparation of ecotoxicology registration strategies to support EEA/UK legislation including Plant Protection Products, Biocidal Products and REACH
- Data gap analysis
- Agency liaison to define regulatory and technical approach
- Litigation support including data compensation evaluations, intellectual property assessment scientific case preparation, and expert witness testimony

Ecological Risk Assessment

- Standard assessments in accordance with EFSA/SANCO guidance for birds and mammals, aquatic organisms, Non-Target Arthropods (NTAs), Non-Target Plants (NTPs), bees and soil organisms
- Non-target organism toxicity endpoints and No Observed Effect Concentrations (NOECs)
- Toxicity: Exposure Ratios (TERs), Hazard Quotients (HQs) and Regulatory Acceptable Concentrations (RACs)
- (Q)SAR modeling
- Endocrine Disruptor (ED) assessments in accordance with European Food Safety Authority (EFSA)/European Chemicals Agency (ECHA) guidance
- Ecological modeling
- Higher-tier exposure and refinement
- Predicted Environmental Concentration (PEC)/Predicted No-Effect Concentration (PNEC) calculations and Assessment Factors

Study Design, Placement & Monitoring

- Design, placement, and monitoring of required ecotoxicology studies at contract research organizations
- Review and interpretation of study results, and Good Laboratory Practice (GLP) compliance consulting
- Compliance with OECD and SANCO testing methods

Dossier Preparation

- Preparation of relevant dossier sections to support EEA/UK active substance approvals and product authorisations for plant protection products, biocidal products and REACH
- Data waivers and read-across/bridging arguments
- Weight of evidence reviews and expert statements
- Organisation for Economic Co-operation and Development (OECD) format dossiers
- Evaluation of public domain scientific literature and data in support of registration
- Assessment of ecotoxicology hazards to support Classification, Labelling and Packaging (CLP)
- Preparation of Safety Data Sheets (SDS)
- Tier II ecotoxicology assessments to support technical equivalence applications



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