Exponent®
Engineering & Scientific Consulting

Kelli Young-Davis

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Professional Profile

Kelli Young-Davis is a regulatory consultant at Exponent with 15+ years of experience specializing in biocidal products and antimicrobial technologies across the consumer and industrial chemicals market.

She helps clients navigate complex U.S. and global regulatory landscapes spanning Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), Canada Pesticide Regulatory Directorate (PRD) and EU Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)/Biocidal Products Regulation (BPR), delivering strategic product registration, compliance and regulatory strategy, and product stewardship.

Ms. Young-Davis has managed two of the chemical industry's most significant regulatory inventory overhauls, spanning implementation of the Frank R. Lautenberg Chemical Safety for the 21st Century Act (Lautenberg Act) amendments to TSCA and REACH substance registrations across the lowest tonnage bands. Her TSCA work includes active and inactive inventory determinations, Premanufacture Notifications (PMNs), and FIFRA notifications spanning multinational specialty chemical manufacturers and emerging market entrants. On the REACH side, Ms. Young-Davis has advised clients on substance registration, dossier preparation, Substance of Very High Concern (SVHC) and candidate list management, and substance volume tracking to support registration tier obligations and ongoing compliance planning. Ms. Young-Davis has negotiated consent orders and Significant New Use Rules (SNURs) directly with the U.S. Environmental Protection Agency (EPA), and has guided organizations through EPA audit readiness by identifying compliance gaps and building corrective action strategies.

Ms. Young-Davis has served clients in construction chemicals (LEED-compliant building materials including gypsum board and architectural coatings), textiles, paper and pulp, adhesives and coatings, and antimicrobial technology licensing and treated article programs across pool liners, water filtration, and ceramics. Her work has addressed registration deficiencies, proactive compliance strategy, green building certification compliance, and LEED material ingredient disclosure requirements across multiple jurisdictions for both large multinational organizations and small portfolio companies. Her experience spans pre-stage gate to commercialization, managing competing jurisdictional requirements where data accepted by one regulatory authority requires modification or supplementation to meet the standards of another, and compressed timelines requiring executive-level cross-functional alignment.

Ms. Young-Davis leverages deep knowledge of masterbatches and treated articles, including how antimicrobial actives are incorporated into substrates and the regulatory landscape governing those processes across FIFRA, BPR, Pesticide Regulatory Directorate (PRD), and Korea Biocidal Products Regulation (K-BPR) frameworks. She navigates the complexity of international regulatory compliance, bridging jurisdictional conflicts and reconciling competing regulatory requirements across markets. Ms. Young-Davis applies a jurisdiction-specific interpretation of Globally Harmonized System (GHS) requirements, recognizing that harmonization in name does not equate to uniformity in practice, and

leverages that knowledge to develop forward-thinking product stewardship programs that anticipate regulatory change rather than react to it.

Prior to joining Exponent, Ms. Young-Davis served as Senior Regulatory Affairs Manager at Microban Products Company, where she oversaw antimicrobial registrations globally across the EU, Turkey, and Asia Pacific. She has also held regulatory and product stewardship roles at BASF, where she oversaw REACH implementation, and at Ingevity, where she supported Korea-REACH compliance. Ms. Young-Davis earned her Bachelor of Science in Biology, with a minor in Chemistry, from Eastern Michigan University.

Academic Credentials & Professional Honors

B.S., Biology, Eastern Michigan University, 2010

Prior Experience

Regulatory Consultant, Exponent, 2026–Present

Senior Regulatory Affairs Manager, Microban Products Company

Senior Regulatory and Stewardship Specialist, Ingevity

Product Steward, BASF

Project Experience

Antimicrobial & Biocidal Product Registration

- Directed regulatory strategy for a new active ingredient (a.i.) submission under Health Canada's Pest Management Regulatory Agency (PMRA, now PRD), including pathway assessment and submission planning for a novel antimicrobial substance.
- Led FIFRA registration efforts for antimicrobial-treated consumer and industrial products, coordinating across formulation, toxicology, and labeling to secure timely market clearance.
- Advised manufacturers on antimicrobial technology licensing and treated article compliance across pool liners, water filtration systems, and ceramics.
- Advised on the formulation and regulatory implications of antimicrobial masterbatches, addressing how active ingredient incorporation into substrates affects registration requirements across FIFRA and international biocidal frameworks.
- Managed state-level pesticide product registrations and discontinuations across the antimicrobial and pesticidal product portfolio, ensuring compliance with state-specific regulatory requirements.

TSCA Compliance & Chemical Inventory

- Managed active and inactive TSCA inventory determinations across a multinational chemical portfolio, ensuring accurate reporting ahead of EPA deadlines.
- Negotiated consent orders and Significant New Use Rules (SNURs) directly with the EPA on behalf of specialty chemical manufacturers.
- Prepared organizations for EPA audits by identifying compliance gaps and building corrective action plans to resolve regulatory vulnerabilities.

- Reconciled client production and import data to determine Chemical Data Reporting (CDR) applicability and in-scope substances, providing submission guidance to ensure accurate and timely TSCA reporting.

REACH & International Regulatory Compliance

- Directed REACH substance registration and dossier preparation for products at the lowest tonnage bands, coordinating with EU-based technical teams.
- Managed Substance of Very High Concern (SVHC) and candidate list tracking to support proactive compliance planning ahead of regulatory deadlines.
- Reconciled conflicting jurisdictional data requirements across U.S., EU, and Korean regulatory authorities to support multi-market product launches.

Product Stewardship & GHS/HazCom

- Developed forward-looking product stewardship programs that anticipated regulatory change rather than reacted to it, reducing compliance risk across product lines.
- Supported green building certification compliance and LEED material ingredient disclosure for construction chemical clients including gypsum board and architectural coatings manufacturers.