



CONTACT INFORMATION

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EDUCATION

MS, Environmental Health,
University of Washington,
2001
BA, Environmental Science,
University of California at
Berkeley, 1998

PROFESSIONAL LICENSES

Certified Industrial Hygienist
since 2009: Credential #9579

Emily Goswami, CIH

Principal Scientist

EXPERIENCE SUMMARY

Roux (2022–Present); Exponent, Inc. (2002–2022); Entrix, Inc. (2001–2002).

TECHNICAL SPECIALTIES

Ms. Goswami is a Certified Industrial Hygienist with over twenty years of experience. Her career has focused on exposure assessment and health risk assessment of chemicals/agents in the environment, workplace, and consumer products. Ms. Goswami's areas of expertise include:

- Environmental and occupational exposure assessment
- Human health risk assessment
- Toxic tort evaluations
- California's Proposition 65 evaluations
- Consumer product stewardship
- Indoor air quality
- Exposure reconstruction
- Expert witness work

REPRESENTATIVE PROJECTS

Consumer Product Evaluations

- **California's Proposition 65.** Evaluated numerous types of products for compliance with California's Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) and other regulations, and for litigation purposes. Products included dinnerware, painted containers, toys, jewelry, gaming chips, adhesives, markers, home improvement equipment, shoes and clothing, fragrance devices, beauty products, cosmetics, exercise mats, tools, seafood, fruit snacks, and dietary supplements. Designed and conducted studies to determine potential exposures via dermal contact, incidental ingestion (including hand-to-mouth contact), direct ingestion, and inhalation. Chemicals included lead, cadmium, benzene, toluene, arsenic, formaldehyde, bisphenol A (BPA), bisphenol S (BPS), and phthalates. Developed benchmarks for comparison including No Significant Risk Levels and Maximum Allowable Dose Levels.

- **PFAS Exposure Assessments.** Estimated potential exposures from certain products containing PFAS based on available test data, toxicology data, and typical and high-end exposure parameters. Worked closely with product manufacturers to understand potential for exposures, health risks, product liability risks, and regulatory compliance issues.
- **PFAS Regulatory Compliance.** Worked closely with manufacturers of products that contain PFAS to understand potential for exposures, health risks, product liability risks, and regulatory compliance issues. Currently keeping track of state, federal, and international regulations and activities to ensure compliance with all retail markets.
- **Complex Solvent Exposure Calculator.** Developed exposure calculator tool for a consortium of global manufacturers so that each manufacturer can enter their product's specific parameters and determine the theoretical consumer exposure levels to solvents in finished products based on multiple use scenarios which included dermal, inhalation, and ingestion pathways. Each manufacturer was able to quickly determine the margins of safety for their products to determine whether they need to be reformulated.

- **Mercury Investigation for Product Development.** Designed and conducted occupational exposure investigation of mercury vapors from development of product prototype. Worked quickly to evaluate exposures, identify sources and levels of mercury in numerous product components, work with client to explain potential exposures to workers and the risk levels in a manner that is easy to disseminate to exposed workers
- **Building Product Litigation.** Evaluated alleged exposure to volatile organic chemicals (VOCs) from a building product via emission testing as well as alternative VOC exposures. Testified in deposition and jury trial.
- **Personal Care Products.** Evaluated potential chemical exposures from use of a variety of personal care products including cosmetics, hair care products, body creams and more for various chemical exposures during use including particulates, PFAS, formaldehyde, phthalates, and more using empirical data collection and modeling methods.
- **School Products.** Evaluated products for potential lead exposure and advised school on a pro bono basis.
- **Warehouse Fire Evaluation.** Designed and conducted sampling plan to evaluate odors in numerous products that were exposed to a warehouse fire. Developed tiered protocol to determine which products and components were fire-affected.

Occupational and Environmental Health Risk Assessment

- **Contaminated Site Human Health Risk Assessments.** Conducted numerous risk assessments for various types of sites in California including former gold mines, a former barium manufacturing facility, former manufactured gas plants, railroad corridors, and foundries, as well as the first former munitions site in California to be granted DTSC approval for unrestricted residential use. Developed remediation goals protective of future residents, commercial workers, construction workers, recreational site users, and ecological receptors. Evaluations included ingestion, inhalation (including vapor intrusion), and dermal contact with a variety of chemicals/agents including metals, volatiles, particulates, radionuclides, explosives, and more.
- **Mercury in Schools.** Evaluated potential exposures to mercury from gym mats in two schools on a pro bono basis. Identified areas of concern, need for further investigation, and communicated potential risks to school administration and parents.
- **Residential Lead Litigation.** Conducted investigation of residence along with a certified lead assessor to identify potential sources of excessive lead exposure. Provided report with expert opinions.

- **Occupational and Para-Occupational Exposure Litigation.** Retained as expert in toxic tort cases involving heavy occupational exposures to lead as well as take-home exposures. Designed and conducted site investigation and produced expert report with opinions on exposure and risk.
- **Safe-Handling Procedures.** Worked directly with major manufacturers to review new chemicals to be used in research and provide guidance on most appropriate handling and safety procedures including personal protective equipment and regulatory requirements.
- **Air Pollution Study, Seattle.** Collected and analyzed air monitoring data from 40 stations to evaluate exposures to particulates, nitrogen dioxide, and sulfur dioxide in Seattle as part of an EPA-sponsored study comparing indoor, outdoor, and personal samples. Analyzed data to understand effects of spatial variation on representativeness of central site monitoring. Published results in the Journal of Air and Waste Management.

Asbestos

- **Asbestos Litigation.** Retained as an expert witness in litigation related to asbestos in automotive friction products, paint, joint compound, gloves, wires/cables, gaskets, packing, and other industrial products. Evaluated Plaintiffs' potential exposures from asbestos-containing products as well as alternative exposures. Provided expert reports and deposition testimony.
- **Talc Litigation.** Retained as an expert witness in litigation related to alleged asbestos contamination in cosmetic talc products. Evaluated Plaintiffs' potential exposures as well as alternative exposures.
- **Domestic Asbestos Exposure.** Conducted extensive review of epidemiologic and exposure data related domestic (take-home) routes of asbestos exposure. Provided detailed critique of literature and conducted meta-analysis of epidemiologic literature which resulted in a key publication.
- **Asbestos Exposure Reconstruction.** Designed and conducted exposure reconstruction study in a test chamber to evaluate potential exposure to asbestos fibers from cutting gaskets.
- **Exposure and Epidemiologic Review.** Extensively reviewed published exposure and epidemiology studies of numerous occupations to determine whether certain occupations have an excess risk of asbestos-related disease; occupations included insulators, plumbers, pipefitters, electricians, railroad workers, farmers, power plant workers, sheet metal workers, steel workers, bricklayers, carpenters, construction laborers, bakers, TV repairmen, gardeners, refinery workers, longshoremen, talc miners and millers, etc.

Mold

- **Residential Mold Investigations.** Evaluated numerous residences for signs of moisture intrusion and excessive mold growth. Designed and conducted air sampling studies, analyzed, and interpreted air sampling data and mycotoxin levels in the body, and provided opinions on whether excessive mold growth exists and the possible sources.
- **Mold Litigation.** Retained in numerous cases regarding alleged exposure to excessive mold and health effects. Evaluated and critiqued data from various mold investigations and provided expert opinions in the form of written reports.
- **Product Liability Litigation.** Testified as expert in class-action litigation related to mold and odors allegedly associated with consumer products. Conducted extensive laboratory testing and on-site investigation of named plaintiff's home. Validated odor assessment method by comparing analyses of air samples with results of a consumer panel.

REPRESENTATIVE EXPERT RETENTIONS/APPEARANCES

Provided expert reports in numerous cases and testified in depositions and jury trials in various districts in California, Louisiana, Ohio, West Virginia, and U.S. District Court. Testimony history available upon request.

PROFESSIONAL AFFILIATIONS

American Industrial Hygiene Association: Member (2005-present)

American Industrial Hygiene Association – Northern California Section: President (2020-2021)

Proposition 65 Clearinghouse. Advisory Board Member (2024)

PUBLICATIONS

Shapero A, Keck S, Goswami E, & Love AH. 2023. Comment on "Impacts of Sugarcane Fires on Air Quality and Public Health in South Florida". *Environmental health perspectives*, 131(2), 028001.

Benson P, Goswami E, McCoy MJ. 2021. The Dose Makes the Poison: Incorporating the Concepts of Exposure and Dose into Your Witness Questioning Strategy. *DRI Toxic Torts and Environmental Law, Newsletter*. Volume 23, Issue 1.

Goswami E, Craven V, Dahlstrom DL, Alexander D, Mowat F. Domestic asbestos exposure: A review of epidemiologic and exposure data. *International Journal of Environmental Research and Public Health* 2013; 10(11):5629-5670. <http://www.mdpi.com/1660-4601/10/11/5629>

Sheehan P, Bogen KT, Hicks J, Goswami E, Brorby G, Lau EC, Ott B. Benzene inhalation by parts washers: New estimates based on measures of occupational exposure to solvent coaromatics. *Risk Analysis* 2010; 30(8):1249-1267.

Bogen KT, Goswami E. Screening-level hazard assessment for six phthalates under A.B. 1108 and Proposition 65 (Rev. 1). *Technical*

Report prepared by Exponent, Inc., for the Environment Section, Office of the Attorney General, California Department of Justice (CalDOJ), May 2009 (made public by CalDOJ, August 2009), Exponent, Inc., Oakland, CA, 97 pp.

Sheehan P, Malzahn D, Goswami E, Mandel JH. Simulation of benzene exposure during use of a mineral spirit solvent to clean elevator bearing housings. *Human and Ecological Risk Assessment* 2008; 14:421- 432.

Goswami E, Larson T, Lumley T, Liu L-J. Spatial characteristics of fine particulate matter: Identifying representative monitoring locations in Seattle, Washington. *Air and Waste Management Association* 2002; 52:324-333.

Book Chapters

Barrie MD, Dahlstrom DL, Goswami E, Kaetzel R. The Halogens. *Patty's Toxicology* 2012; 1033-1108.

PRESENTATIONS

Braly, B, Goswami E, Massenburg C, Moynihan R. Science and Genetics Update. *Perrin Conferences Talc Litigation Conference*. Chicago, IL. May 20, 2025.

Goswami E, Love M. Manufactured Stone Fabrication and Silicosis. *The National Forum for Environmental and Toxic Tort Issues*. Chicago, IL. September 25, 2025.

Glash S, Goswami E. Emerging Contaminants: 6PPD-Quinone and DCPA - Environmental and Human Risks. *The Institutes CPCU Society. Webinar*. December 10, 2024.

Goswami E, Reynolds R, Daly B. Science Related to Silica and the Artificial Stone Industry. *Association of Defense Counsel of Northern California and Nevada. Toxic Torts Conference*. San Francisco, CA. October 25, 2024.

Mowen K, Fitzpatrick A, Goswami E. Surveying the Landscape of Toxic Torts – An Overview of Talc, Silica, Microplastics, Lead and Hair Relaxer Litigation. *The National Forum for Environmental and Toxic Tort Issues*. Chicago, IL. September 25, 2024.

Goswami E, Ocampo H, Rothman R, Scofield R. When to Test Your New Product: Proactive vs. Reactive Analytical Testing. *Prop 65 Clearinghouse 2024 Conference*. San Francisco, CA. September 23, 2024.

Austin T, Goswami E, Boer T, Prowell C. Emerging Contaminants. *California Environmental Law Conference*. Yosemite, CA. September 15, 2024.

Goswami E, Hartley K, Linger MA, Manley KM. Science and Safety. *Perrin Conferences Talc Litigation Conference*. Chicago, IL. May 29, 2024.

Howell K, Goswami E, Fitzpatrick A. PFAS in Consumer Products. *DRI Toxic Tort and Environmental Law Conference*. Philadelphia, PA. March 22, 2024.

Du Boff R, Goswami E, Hebner RC. PFAS Consumer Fraud. Perrin Conferences PFAS Litigation and Regulatory Developments Conference. February 15, 2024.. Virtual.

Raglin D, Easter M, Goswami E. Compliance Science: Prop 65 & PFAS Exposure Assessments. Steptoe and Johnson webinar. February 15, 2024.

Boston C., Goswami E., Cunningham, A. Lead is Back! Updates on New Exposure Issues, Regulations, & Litigation. Roux webinar. February 6, 2024.

Goswami E. Mesothelioma Among Women – Analysis of Various Exposures. DRI Talc Litigation Seminar. Washington, DC. August 16, 2023.

Goswami E. PFAS: Health Risks and Adapting to Regulatory Changes. The Institutes CPCU Society webinar. July 20, 2023.

Boston C, Goswami E, Pritchett PE. What's Cooking with Gas Stoves? Health Effects, Regulations & Litigation. Roux webinar. May 16, 2023.

Lizano AL, Goswami E. Prop 65: What Happens in California Isn't Staying in California. Western Agricultural and Environmental Law Conference, Reno, NV. May 4, 2023.

Boston C., Goswami E., Cunningham, A. "Forever Young, Forever Chemicals? PFAS in Cosmetics – Health and Litigation Risks." Roux webinar. December 8, 2022.

Goswami E. The Chrysotile Defense – Trends and Recent Literature, and Household Exposures, Washington Defense Trial Lawyers Asbestos Law Update, virtually. October 1, 2021.

Goswami E. COVID-19 Knowledge & Resources. Western Energy Institute Construction Conference, virtually, September 23, 2020.

Goswami E and Kalmes R. Evaluation of street-level carbon monoxide levels in the U.S. Poster presentation at the American Industrial Hygiene Conference and Exposition (AIHce), virtually, May 24-26, 2020.

Ellis AM, Swank E, Goswami E. What Every Business Needs to Know About Prop 65. Buchalter webinar. October 15, 2019.

Goswami E, Sheehan P. Evaluation of dermal and inhalation exposures from consumer products. International Society of Exposure Science (ISES) California webinar. May 31, 2019.

Sheehan P, Lowney Y, Kalmes R, Bogen KT, Posson M, Glomski M, Singhal A, Volberg V, Beckerman B, Goswami E. Assessing user exposure to consumer products: methods specific to product use and exposure route to assess consumer health risk. Presented at the 36th Annual Meeting of SETAC North America, Salt Lake City, UT, November 1-5, 2015.

Goswami E, Craven V, Dahlstrom D, Mowat F. Domestic asbestos exposures: A review of epidemiologic and exposure data.

American Industrial Hygiene Conference and Exposition (AIHce), Denver, CO, May 22-27, 2010.

Sheehan P, Bogen K, Brorby G, Goswami E. Improved estimates of worker exposure to benzene during parts washing based on a new approach analyzing solvent and air data for other aromatic constituents. Presented at the American Industrial Hygiene Conference and Expo, Denver, CO, May 22-27, 2010.

Sheehan P, Bogen K, Brorby G, Goswami E. Worker inhalation exposure to benzene from solvents during parts washing. Society for Risk Analysis 2009 Annual Meeting, Baltimore, MD, December 6-9, 2009.

Sheehan P, Goswami E, Hicks J, Barrie M. An assessment of historical benzene exposures of printing press operators. Presented at the American Industrial Hygiene Conference and Expo, Minneapolis, MN, May 31-June 5, 2008.

Sheehan P, Hicks J, Goswami E, Lau E, Greene J, Fedoruk MJ. Assessment of mechanics' exposure to benzene in mineral spirit solvents during parts washing activities. Presented at the American Industrial Hygiene Conference and Expo, Chicago, IL, May 13-18, 2006.

Goswami E, Malzahn D, Richter R, Sheehan P. Simulation and modeling techniques to reconstruct historical benzene exposures. Platform presentation at the Society for Risk Analysis Meeting, Baltimore, MD, December 3-6, 2006.

Brorby G, Kalmes R, Goswami E, Mowat F, Sheehan P. Evaluating exposures to consumer products. Platform presentation at the Society for Risk Analysis Meeting, Baltimore, MD, December 3-6, 2006.

Sheehan P, Malzahn D, Goswami E, Kalmes R, Hicks J, Mandel J. Use of a simulation to estimate benzene exposure from degreasing elevator parts. Presented at the Society for Risk Analysis Meeting, Baltimore, MD, December 3-6, 2006.

Goswami E, Greene J, Sheehan P, Hicks J. Analysis of exposure to benzene in mineral spirit solvents during parts washing and degreasing operations. Poster presentation at the Society of Toxicology Meeting, San Diego, CA, March 5-9, 2006.

Goswami E, Kalmes R. Exposure to formaldehyde during use of a nail care product. Poster presentation at the American Industrial Hygiene Association Conference and Exposition, Anaheim, CA, May 21-26, 2005.

Madl AK, Leung HW, Proctor D, Goswami E, Hays S, Cohen E. Derivation of a RfD for perchlorate: Identifying a critical health endpoint and the most sensitive subpopulation. Poster presentation at the Society of Toxicology Annual Meeting, Baltimore, MD, March 21-25, 2004.