

SESSION TITLE AND OUTLINE: ENVR: Changes in Chemical Risk Assessment under Amended TSCA: Approaches & Implementation (Oral)

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Title:

The EPA CompTox Chemistry Dashboard and Underpinning Software Architecture – a platform for data integration for environmental chemistry data

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*The CompTox Chemistry Dashboard was developed by the Environmental Protection Agency's National Center for Computational Toxicology. This dashboard has been architected in a manner that allows for the deployment of multiple "applications", both as publicly available databases, and for deployment under the constraints of confidential business information (CBI). The public dashboard provide access to multiple types of data for ~750,000 chemicals. This includes, when available for a chemical substance, physicochemical parameters, toxicity and bioassay data, consumer use and analytical data. Fate, exposure, and hazard calculations can benefit from access to the data aggregation and curation efforts that underpin the public dashboard. Also, regulators can benefit from the integration of their own data within their closed infrastructure environments. This presentation will provide a review of the chemistry dashboard architecture and its present application providing access to data to the research and regulatory communities. We will also review present developments in the area of delivering an application programming interface, web services, and software components for integration into third party applications providing access to the data exposed via the dashboard. This abstract does not reflect U.S. EPA policy.*