How UL Solutions Enables Retailer Chemical Footprints

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BizNGO 2023 Annual Meeting:
Measuring & Tracking Chemical Footprints
December 6 and 7, 2023
Priority chemicals by weight

17% reduction* in weight (volume) of in-scope Priority Chemicals in products sold in 2020


*Compared to baseline year
UL Solutions product data ecosystem

1. Supply chain partners contribute data
   Manufacturers and third-party suppliers provide formulation data. Retailers provide product sales data.

2. Rules engine conducts assessments
   Classifying products, ensuring regulatory compliance, calculating chemical footprints.

3. Retailer-specific business logic
   Apply custom business rules and logic to align with each retailer’s business practices and standards.

4. Report results for different analyses
   Delivered to clients by WERCSmart data feeds or PurView® catalogs

600,000+ chemical substance database
7,500+ regulatory lists
20,000+ suppliers
125+ retailers
1.7M + UPCs

Chemical Screening
Chemical footprinting
Regulatory Classification
Product safety
Transportation, storage and disposal
UL Solutions chemical footprinting strengths

Provides easy access to formulation data for most chemically-intensive products

- WERCSmart helps retailers gather the formulation data for their product portfolio, including the composition of third-party components.

- The WERCSmart platform makes it easy for retailers to request consent from suppliers to use confidential data to do footprint calculations.

Offers year-over-year data to analyze and track reduction trends

- Need to maintain a consistent list of reportable chemicals over a reduction goal period.

- UL Solutions supports multiple “stable” chemical lists:
  - The Chemical Footprint Project (CFP) Chemicals of High Concern (CoHC) 2023
  - Retailer lists of Priority Chemicals
Challenges of chemical footprinting

• Inconsistent footprint boundaries.
• Availability of required compositional data varies significantly by product type.
• Limitations of mass-based chemical prioritization.