

PARTNERING WITH YOUR SUPPLIERS FOR PROACTIVE HAZARDOUS WASTE REDUCTION

Presented by:

Ashley Bell, Senior Manager of Consumer Packaged Goods Segment, UL

Joe Donnelly, hazardous waste expert in chemical-containing products and batteries contained in consumer electronics, UL



Collaborating with your suppliers to proactively reduce hazardous waste

Ashley Bell, senior manager CPG supply chain, UL

Joe Donnelly, retail hazardous waste expert, UL

About the speakers



Ashley Bell

Senior manager CPG
supply chain

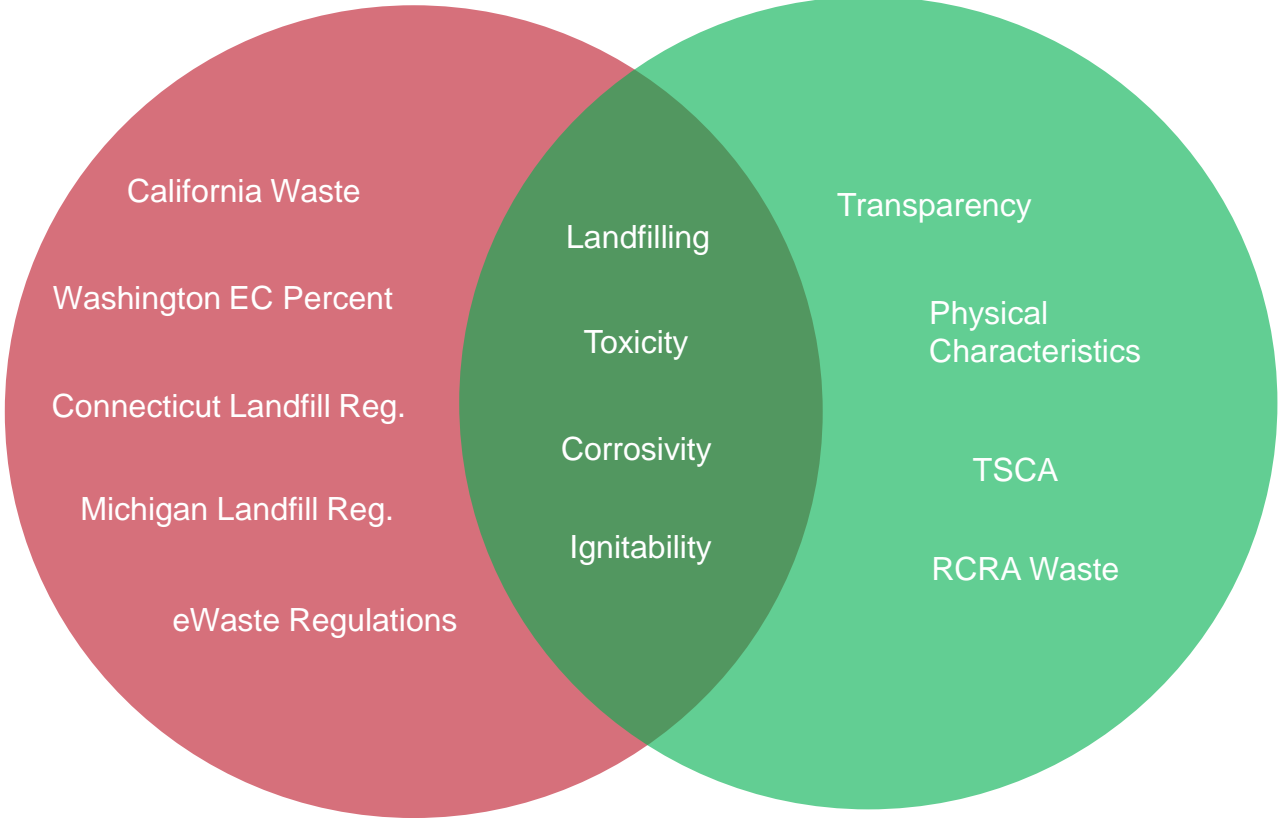


Joe Donnelly

Retail hazardous waste
expert

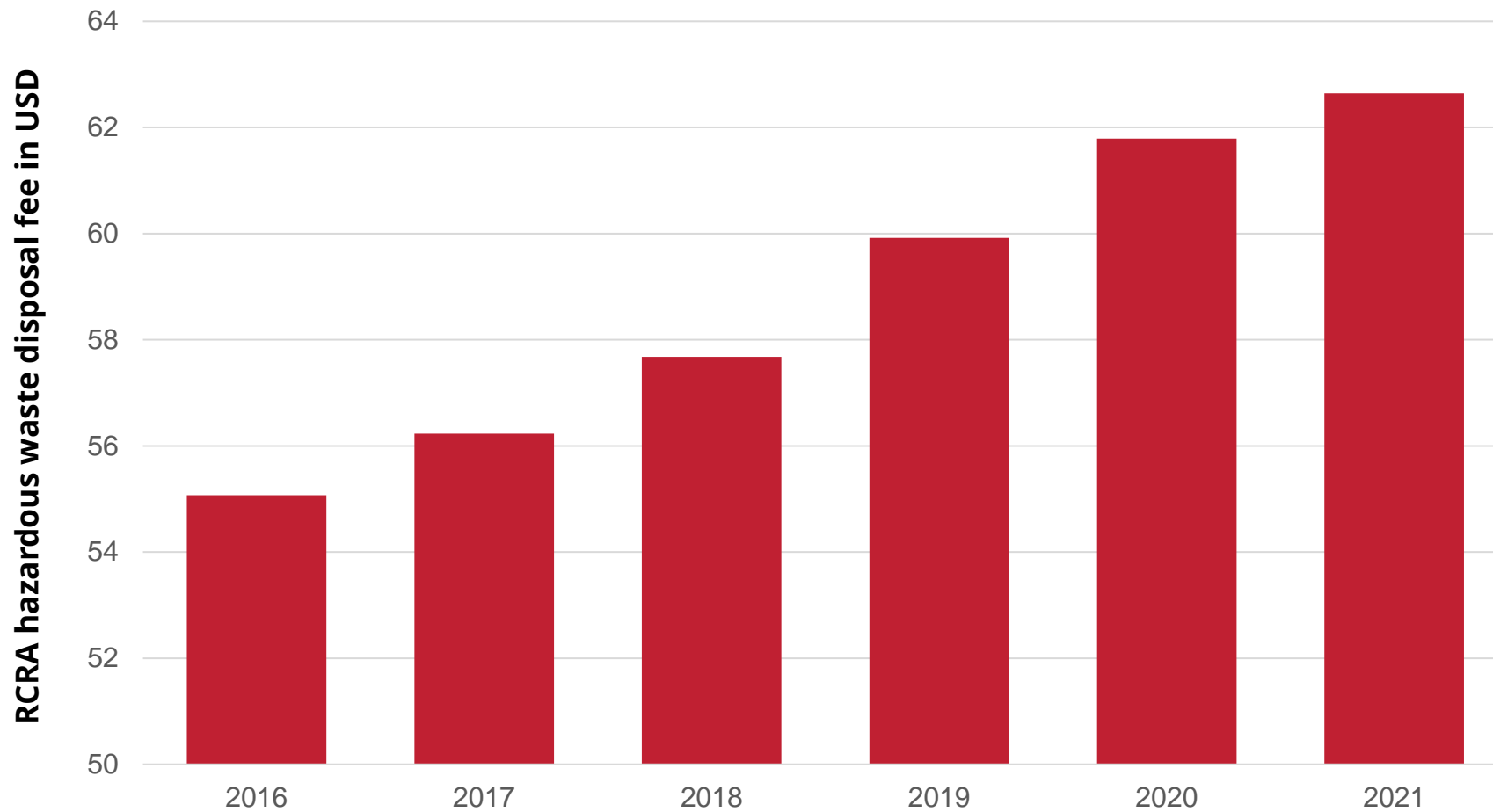
The regulatory burden on retailers is increasing

State Hazardous Waste Disposal



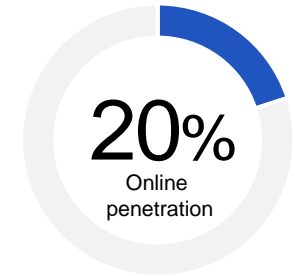
Environmental Protection Agency

Hazardous waste disposal costs continue to grow



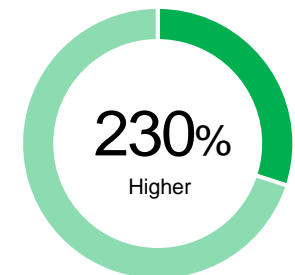
Details: California Department of Tax and Fee Administration

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Nearly \$1 in every \$5 spent on retail purchases comes from digital orders

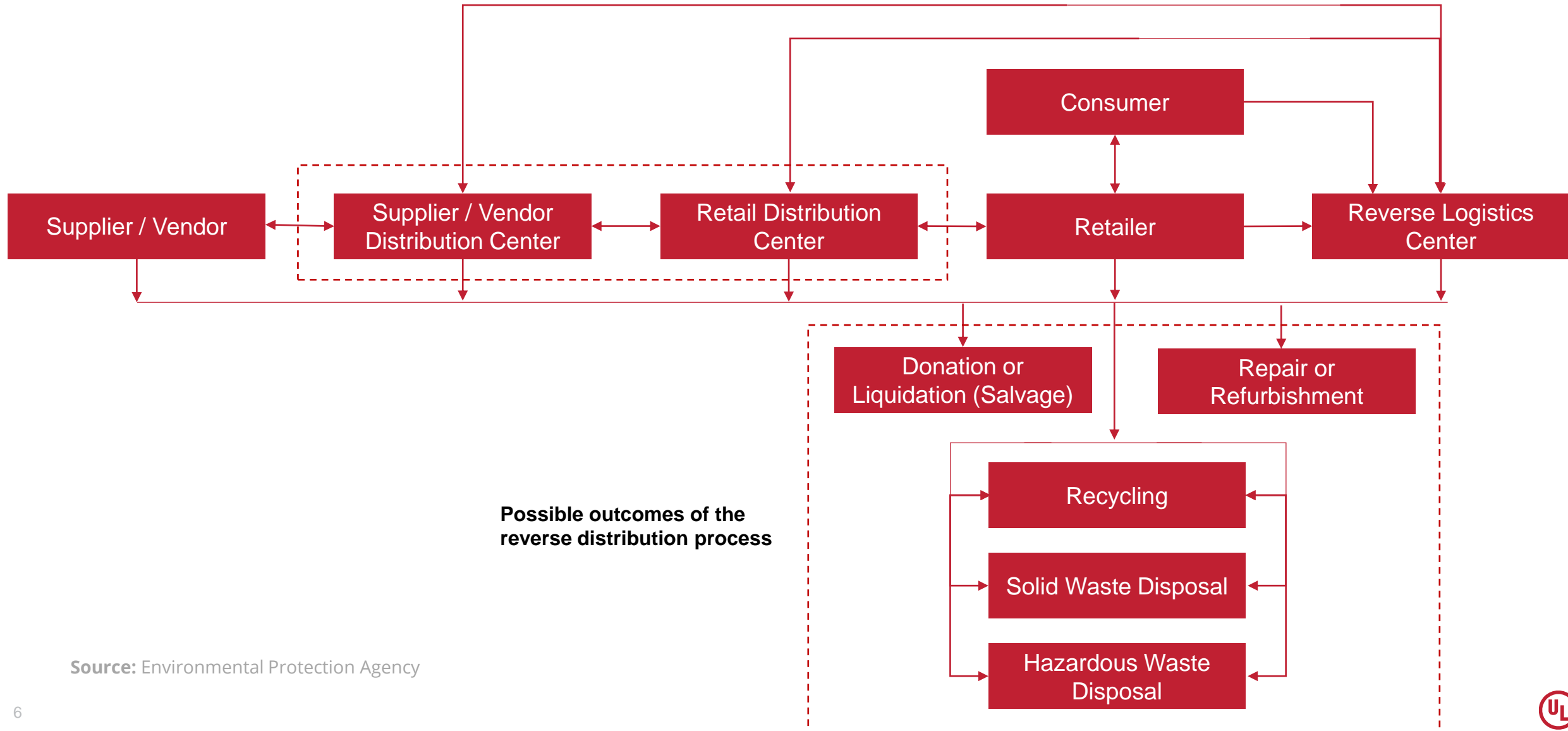
Source: Digital Commerce 360



Return rate for eCommerce purchases over in-store

Source: CBRE

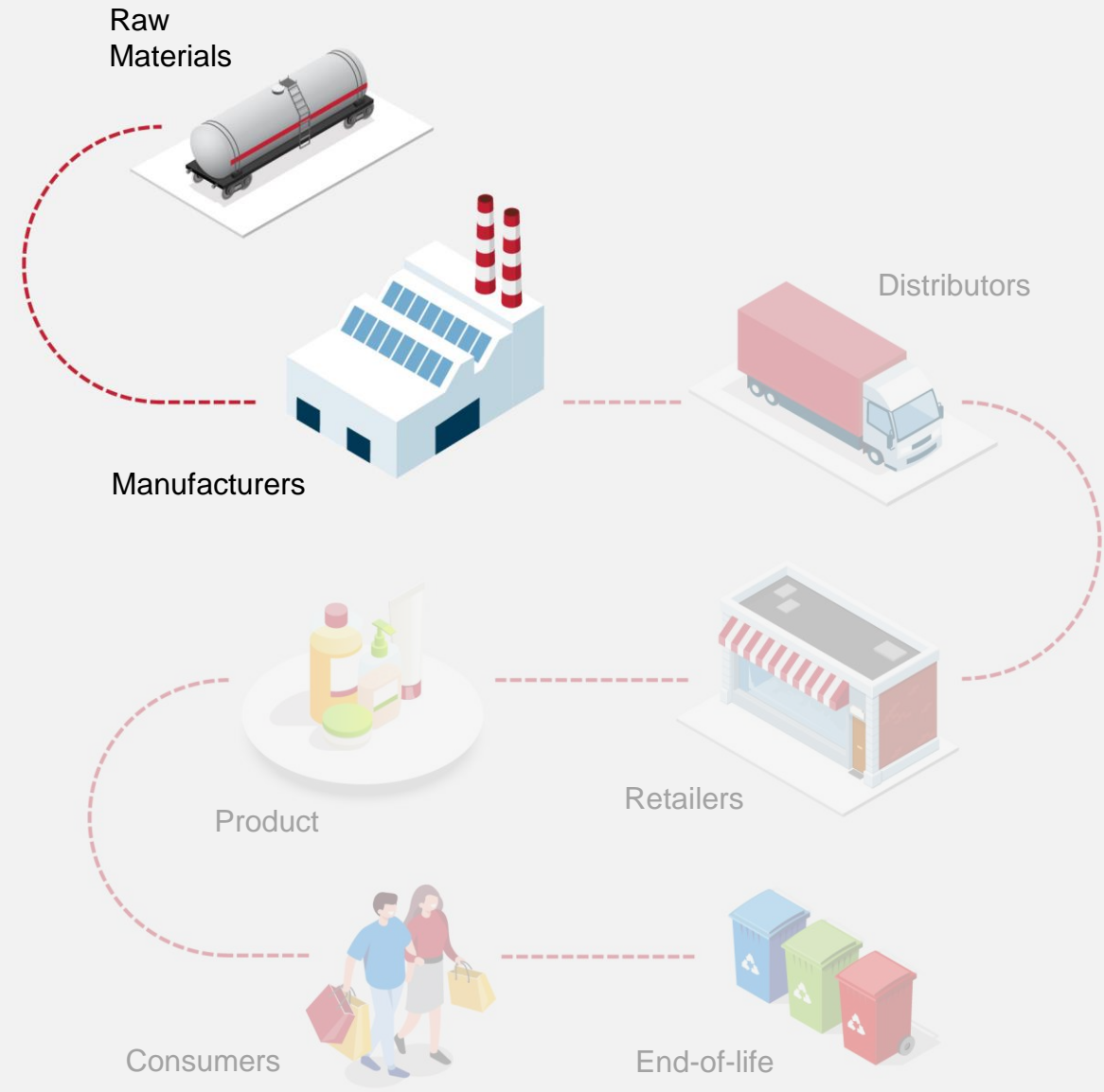
Managing the flow of goods and wastes in retail



Source: Environmental Protection Agency

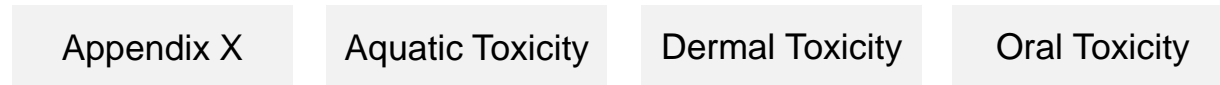
Consider collaboration with your suppliers

Working upstream in the supply chain with both national and private label brand suppliers can mitigate the hazardous waste impact of the product



Understand your waste classifications

Examples of common waste determinants:



Examples of common waste classifications:

California

- 311 – Pharmaceutical Waste
- 331 – Organic Surplus
- 141 – Inorganic Surplus
- 561 – Detergents / Soaps

Washington

- WT01 – Toxic / Extremely Hazardous
- WT02 – Toxic / Dangerous Waste

WERCSmart® Product Suite

Filter By

search

Supplier Name

Aerosol Coating Message

Battery Types

Battery, Cell, Button Cell Lithium Battery

Boiling point / boiling range °F

CA (CARB)

California Waste Codes

CARB Message

Connecticut Waste Codes

Does the product contain a battery or is it shipped with a battery?

Domestic Air LQ (w/units) (BASIC RETAILER)

Domestic air sub haz

Domestic Air UN Code (BASIC RETAILER)

Parameters

search Clear All

331 (39310)

141 (18958)

311 (13944)

561 (11568)

232 (2403)

792 (1081)

221 (848)

122 (346)

791 (317)

214 (58)

281 (19)

135 (8)

213 (4)

M003 (4)

121 (1)

131 (1)

211 (1)

342 (1)

351 (1)

722 (1)

724 (1)

Clear All OK

Understand your waste classifications

UL WERCsmart		B	C	D	E	J	M	AC	AU	BC
My Reports		Product Name	Federal Waste	EPA Type	EPA Code	California	Connecticut	Michigan	Rhode Island	Washington
Requested reports are available for 30 days in WERCsmart. Please allow several moments and/or spam folders.		2 Antacid or Anti-Gas - Liquid	No	-	-	311	CR04	014L	-	-
Battery-Containing Products		3 Antacid or Anti-Gas - Solid	No	-	-	311	CR05	-	R006 - Type 6	WT02
California Proposition 65		4 Antiperspirants / Deodorant - Aerosol (Men or Women)	Yes	Ignitable	D001	311	-	-	-	WP01
Chemicals of Concern		5 Antiperspirants / Deodorant - Non-Aerosol (Men and Women)	No	-	-	311	CR05	-	R006 - Type 6	WT02
Eligible to Obsolete		6 Bath Fragrances, Softeners or Salts - Liquid (Oil)	No	-	-	331	CR04	029L	-	WT02
Kit Registrations		7 Bath Fragrances, Softeners or Salts - Solid (Bombs)	No	-	-	141	CR05	-	-	WT02
Kits Containing a Registration		8 Bath Fragrances, Softeners or Salts - Solid (Salts)	No	-	-	141	CR05	-	-	WT02
Pesticide Registrations		9 Body Lotion / Hand Cream - Liquid	No	-	-	331	CR04	029L	-	WT02
Product Types Registered		10 Body Lotion / Hand Cream - Solid	No	-	-	331	CR05	-	-	WT02
Registration Updates Not Submitted		11 Conditioner - Liquid (Hair)	No	-	-	331	CR04	034L	-	WT02
Subscription Product Types		12 Conditioner - Leave-In/Mask/Treatment (Non Aerosol)	No	-	-	331	CR04	029L	-	WT02
UPC and Retailer (All)		13 Detangler - Liquid (Hair)	No	-	-	331	CR04	029L	-	WT02
UPC and Retailer (Single Registration)		14 Facial Moisturizers and Treatments - Creams / Serums	No	-	-	331	CR04	029L	-	WT02
UPC Duplication		15 Facial Care - Moisturizer and Treatment - Liquid	No	-	-	331	CR04	029L	-	WT02
UPC Errors for The Home Depot		16 Facial Care - Cleansing Wipes - No Free Liquid	No	-	-	331	CR05	-	-	WP01
UPCs to Retailer via Item Sync		17 Facial Care - Mask - Liquid (Paste)	No	-	-	331	CR04	034L	R006 - Type 6	WP01
Volatile Organic Compounds		18 Facial Care - Mask - Liquid (Gel)	No	-	-	331	CR04	034L	-	WT02
Waste Classification Summary		19 Herbal or Dietary Supplement - Solid	No	-	-	-	CR05	-	-	-
		20 Herbal or Dietary Supplement - Liquid	No	-	-	-	CR04	029L	-	-
		21 Homeopathic Medicine - Solid	No	-	-	311	CR05	-	-	WT02
		22 Nutritional Supplement - Liquid	No	-	-	331	CR04	029L	-	-
		23 Nutritional Supplement - Solid - Tablets	No	-	-	-	CR05	-	-	WT02
		24 Nutritional Supplement - Powder	No	-	-	331	CR05	-	-	WP01
		25 Nutritional Supplements for Domesticated Animals - Liquid	Yes	Toxic	D010	141	-	-	-	WT02
		26 Nutritional Supplements for Domesticated Animals - Solid	No	-	-	331	CR05	-	-	WT02
		27 Nutritional Supplements - Tea (Solid)	No	-	-	331	CR05	-	-	WT02
		28 Stress Ease Scent Inhaler	No	-	-	331	CR04	029L	-	WT02

Identify priority hazardous waste products

WERCSmart® Product Suite

Home Dashboard Recent Activities Web Viewers ItemSync Product Lookup Help & Support

Product Details

Product Lookup

Filters: US EPA Waste Number: "D004"

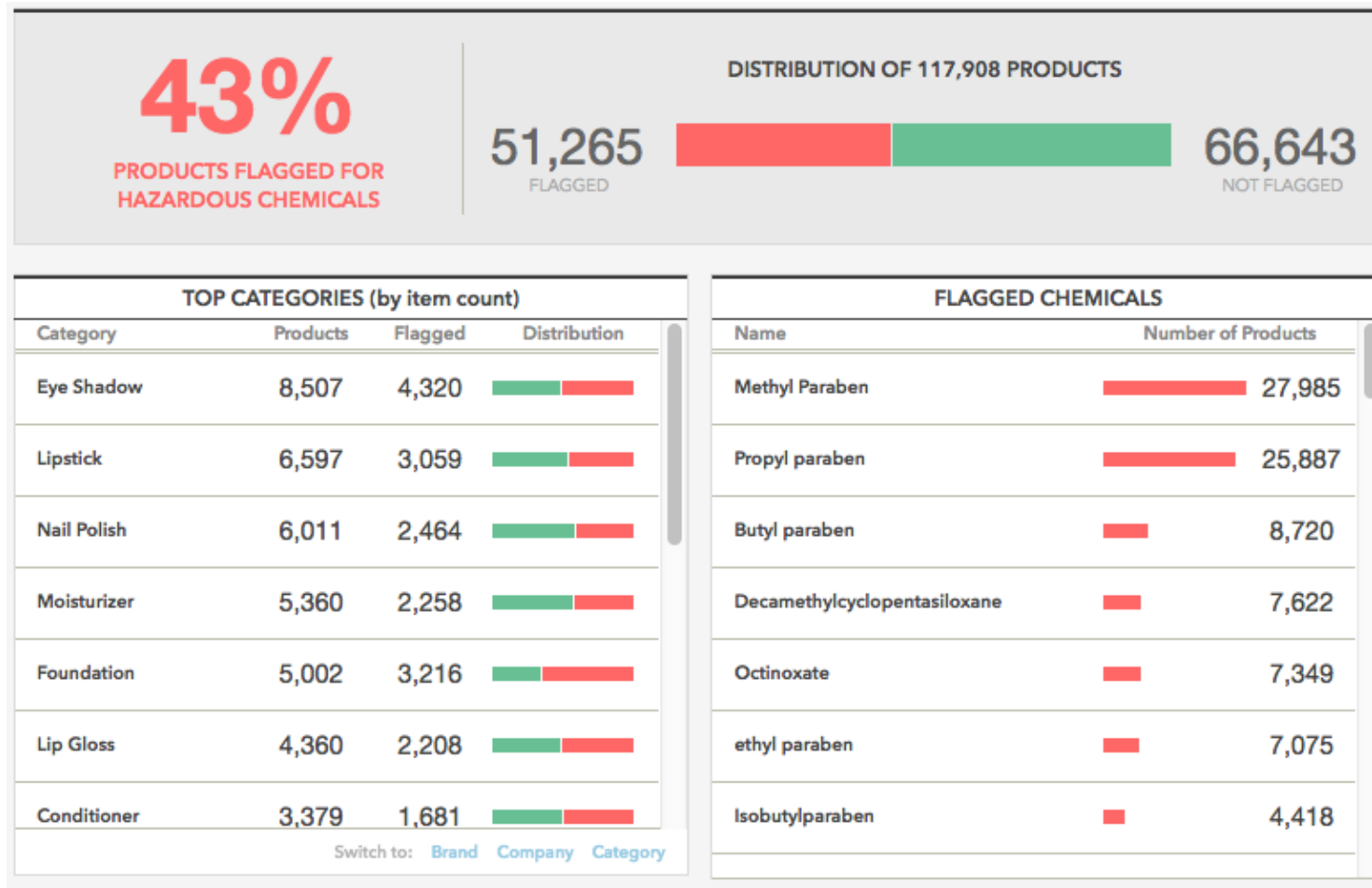
Product	Name
▶ 1626598	Lead-Acid Storage Batteries filled with dilute sulphuric acid
▶ 1626527	Absortive Glass-Fiber Material Lead Acid Battery
▶ 1585635	Painting Essentials
▶ 1546291	EverStart Lead Acid Battery Bundle
▶ 1546288	EverStart Lead Acid Battery Bundle
▶ 1546286	EverStart Lead Acid Battery Bundle
▶ 1546285	EverStart Lead Acid Battery Bundle

Page 1 of 5 | 20

Considerations:

- Weight of the product
- Return frequency
- Ability to be reformulated
- Testing potential
- Retail focus
- Waste disposal cost

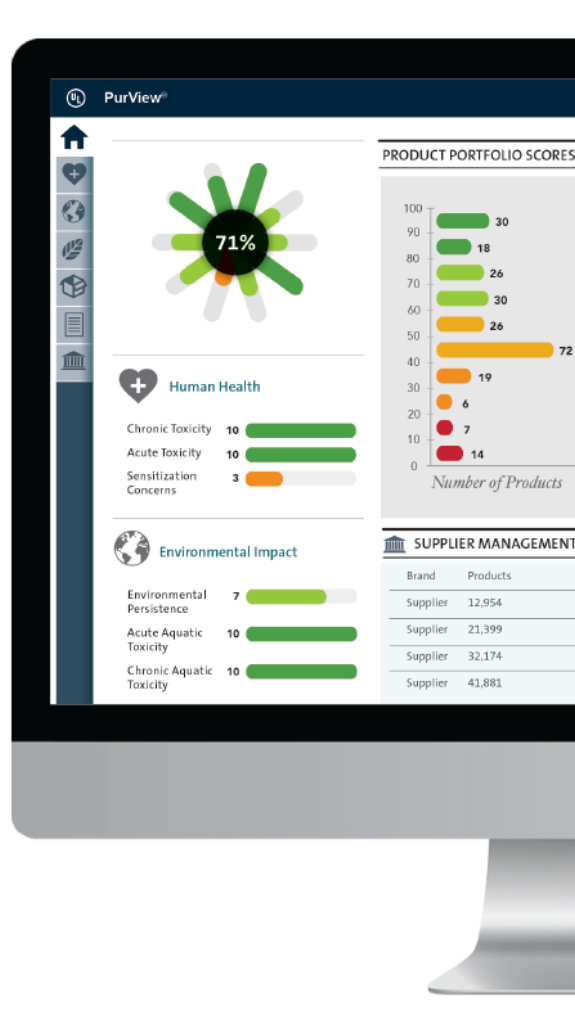
Identify chemicals triggering hazardous waste codes



Once we have figured out the products that are most impacted by a code, and we identify the chemicals that are driving that code, we can use that information to drive product reformulation initiatives.

Analysis based on public ingredient lists for personal care and cleaning products

Work with suppliers to remove hazardous chemicals



Reformulating considers many inputs from the supply chain, outside of waste:

- Regulatory Implications
- Sustainability Performance
- Optimizations in Product

Partnered approach

- **Partnered with** suppliers, directly, on collaborative waste initiatives
- **Focused** department or product level goal setting. Larger volume products: by both sales and weight perspectives, as they relate to waste
- **Immediate return** on the collaborative investment



Incentive-based approach

- **Driving change** by incentivizing suppliers
- **Prompt** suppliers to begin reformulation and/or testing exercises
- **A more organic** approach; results not as immediate



Key Takeaways

1. By the time a product hits the shelf, it's too late to change its hazardous waste impact.
2. Partner with your suppliers to proactively remove hazardous waste properties from your products.
3. You can achieve this through direct collaboration on specific products / categories or through incentive systems to influence change at the supplier level.



Questions

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UL.com