Joshua Grice

Research Analyst

Reducing Toxic Threats

Washington State
Department of Ecology

(360) 407-6786

joshua.grice@ecy.wa.gov



CHEMICALS IN PRODUCTS ECOLOGY'S DATA AND POLICY EFFORTS

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Ecology's Efforts

>>>BANS

PBDEs, including deca-BDE in certain products

Toxics in packaging

Bisphenol A in children's bottles/cups, sports bottles

Lead in wheel weights

Copper in brake pads, boat paint

Coal tar sealants

>>> DATA COLLECTION

Children's Safe Product Act reporting rule

Product testing

Brake pad law

>>> STAKEHOLDER PROCESSES

Chemical Action Plans for Persistent, Bioaccumulative Toxics (PBTs)

Alternatives assessment guidance

Green Chemistry Center



Children's Safe Products Act

- □ Passed in 2008
- Established limits for lead, cadmium and phthalates in children's products
 - Substantially preempted by CPSIA
- Requires reporting on Chemicals of High Concern to Children (CHCCs) in children's products
- □ Law: RCW 70.240
- Reporting Rule: WAC 173-334



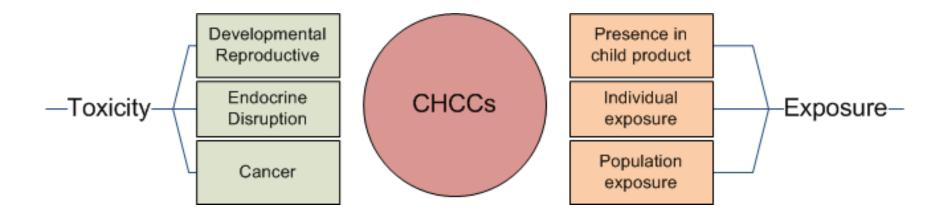
Children's Safe Product Act

Definition of "children's product"

- Toys
- Children's Cosmetics
- Children's Jewelry
- Children's Clothing
- Child car seats
- •Products intended to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child



Development of the CHCC list





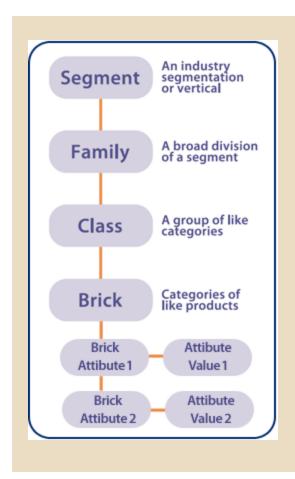
CSPA – phased-in reporting

Manufacturer Categories (US Aggregate Gross Sales)	Product Tier 1 •Intended to be put in mouth •Intended for on skin •Mouthable & for under 3	Product Tier 2 •Intended for prolonged skin contact (>1hr) •Clothing, jewelry	Product Tier 3 •Intended for short skin contact (<1 hr) •Toys
Largest (\$1 billion+)	August 2012	February 2013	August 2013
Larger (\$250 million- \$1 billion)	February 2013	August 2013	August 2014
Medium (\$100 million- \$250 million)	August 2013	August 2014	August 2015
Small (\$5 million - \$100 million)	August 2014	August 2015	August 2016
Smaller (\$100,000- \$5 million)	August 2015	August 2016	August 2017
Tiny (>\$100,000)	August 2016	August 2017	August 2018



CSPA – reporting framework

Manufacturers report presence of CHCCs by product category and product component.



Segment

Arts/crafts/needlework

Baby care

Beauty/personal care

Clothing

Footwear

Household

Personal accessories

Toys/games

Example bricks

Artists paints/dyes, Artists pastels/crayons, Jewelry craft materials, Sand art supplies

Pacifiers/teething rings, Baby bath safety products, Baby changing mats, Baby furniture/transportation/safety

Cosmetic aids/accessories, Fragrances, Hairshampoo, Dental cleansing, Lip Balms

Handwear, Headwear, Skirts, Socks, Trousers/Shorts, Sleepwear Variety Packs

Athletic footwear, Boots, Shoes

Cushions, Bed sheets/valances, Pillow cases

Anklets, Earrings, Necklaces, Rings, Tiaras

Board games, Practical jokes, Puppets, Developmental/educational toys, Outdoor games, Toy vehicles, Role play – kitchen toys

CSPA – reporting framework

Manufacturers report presence of CHCCs by product category and product component.

- •Bio-based Materials (Animal or Plant based) ex. leather, horn, silk, wool
- •Glass, Ceramic and Siliceous material
- •Homogenous Mixtures (gels, creams, powders, liquids, adhesives, synthetic fragrances)
- •Inks/Dyes/Pigments
- Metals (Including alloys)
- •Surface coatings (paints, plating, waterproofing etc.)
- •Synthetic Polymers (synthetic rubber, plastics, foams etc.)
- Textiles (synthetic fibers and blends)
- •Other



CSPA – reporting framework

Manufacturers report presence of CHCCs by product category and product component.





CSPA – required information

Manufacturers must report the function of the CHCC and in what amount it is present.

Accelerator	Dispersant	Manufacturing additive	Solvent
Adhesive	Emulsifier	Mold/press release	Source contaminant
Antioxidant	Flame retardant	No function — contaminant	Stabilizer
Antistatic agent	Flavoring	pH adjustment	Stain prevention
Binding agent	Fragrance	Physical characteristics	Surfactant
Catalyst	Germicidal	Plasticizer/softener	Texture
Coloration/Pigments/ Dyes/Inks	Hardening	Preservative	UV stabilizer/ absorber
Component of plastic resin or polymer process	Inactive ingredient	Protective coating	Water proofing
Conductive material	Lubricant	Reinforcement/strength	



CSPA - required information

Manufacturers must report the function of the CHCC and in what amount it is present.

Reporting Ranges

Range 1: < 100 ppm and >= PQL

Range 2: < 500 ppm and >= 100 ppm

Range 3: < 1000 ppm and >= 500 ppm

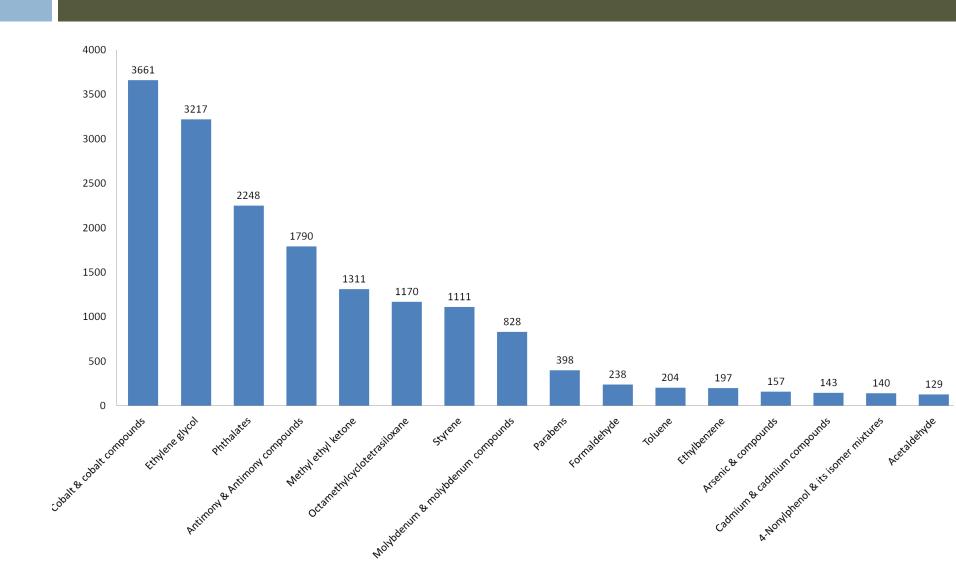
Range 4: < 5000 ppm and >= 1000 ppm

Range 5: < 10,000 ppm and >= 5000 ppm

Range 6: >= 10000 ppm

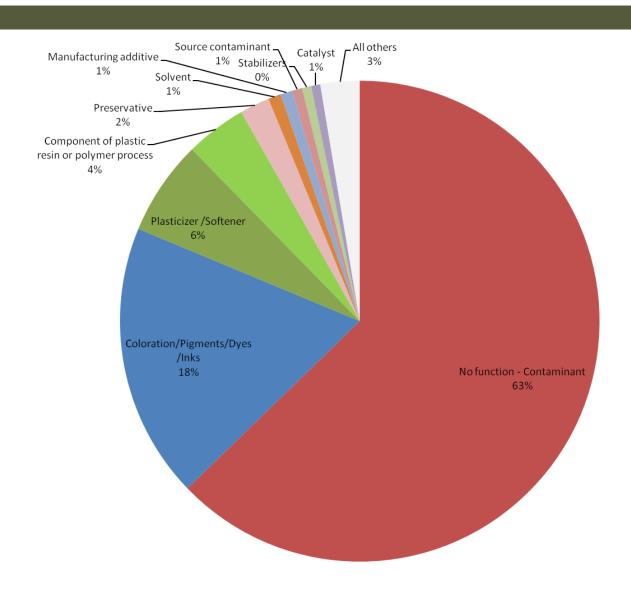


Reports per chemical



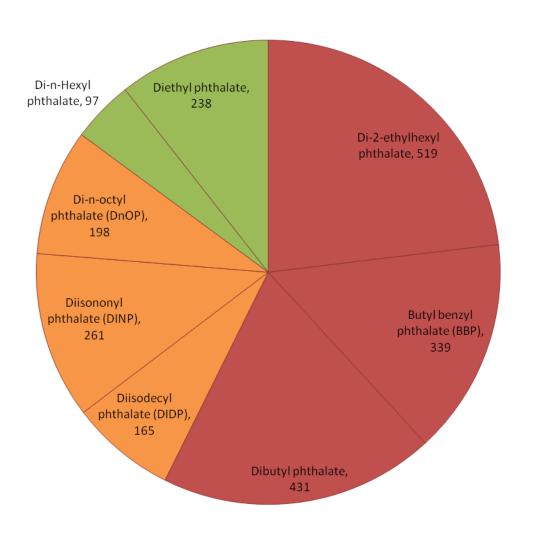


Reports per function





Phthalates by segment



RED – federalpermanent ban in toys& child care articles

Still a majority of reports.

ORANGE – federal provisional ban in mouthable toys & child care articles

GREEN – not restricted

Ecology Studies

EAP

W2R, HWTR

- XRF Screening Tool Study
- BPA in Baby Bottles
- <u>Tier 3 products</u>
 <u>Phthalates and</u>
 Metals
- Metals,
 Phthalates,
 and Solvents in
 Clothing

2011

2012

2013

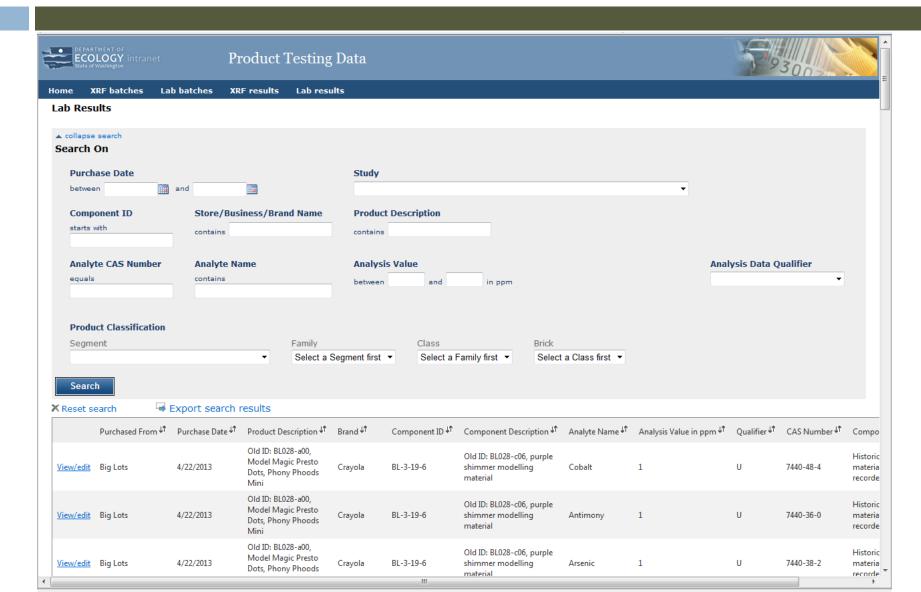
2014

- Tier 1 &2 Products
 - o Phthalates, metals
 - Parabens, metals
 - VOCs, metals
- Toxics in Packaging

- PBDEs and Flame
 Retardants in Products
- BPA Substitutes in Baby Bottles
- PCBs in various products



Product Testing Database



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RESOURCES

Children's Safe Product Act:

http://www.ecy.wa.gov/programs/swfa/cspa/

RCW 70.270

http://apps.leg.wa.gov/RCW/default.aspx?cite=70.240

WAC 173-334

http://apps.leg.wa.gov/WAC/default.aspx?cite=173-334

Listserv:

http://listserv.wa.gov/cgi-bin/wa?A0=CHILDRENS-SAFE-PRODUCTS

Search data on children's products:

http://www.ecy.wa.gov/programs/swfa/cspa/search.html

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