



Green Ribbon Science Panel Meeting

Meeting materials can be found at:

<https://dtsc.ca.gov/scp/green-ribbon-science-panel-meeting-december-13-14-2023/>

Live Webcast: <https://video.calepa.ca.gov/#/player/1573>



Department of Toxic Substances Control



CalEPA



December 13, 2023
9:00 am - 5:00 pm PST

Green Ribbon Science Panel Meeting



Department of Toxic Substances Control



CalEPA



Green Ribbon Science Panel Meeting

Opening Remarks



Department of Toxic Substances Control



CalEPA

Celebration of Dr. Melanie Marty's Life



Melanie Marty
December 2, 1953 – August 21, 2023





Green Ribbon Science Panel Leadership and Membership



Department of Toxic Substances Control



CalEPA



Safer Consumer Products Program Update

Green Ribbon Science Panel Meeting
December 13, 2023

Karl Palmer, Deputy Director
Safer Consumer Products Program



Department of Toxic Substances Control



CalEPA

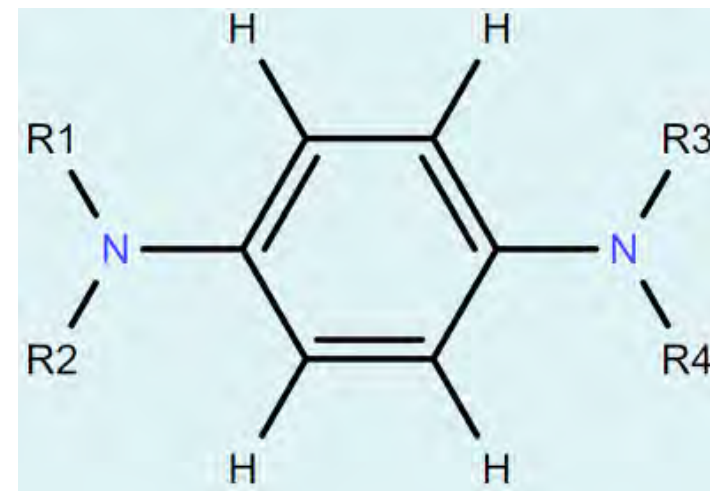
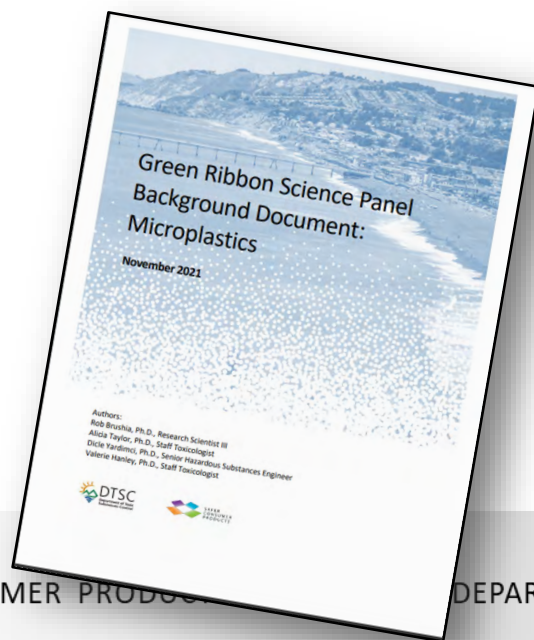
What is covered:

- Adding Chemicals to the Candidate Chemical List
- New Priority Products
- Alternatives Analyses
- Regulatory Response and Compliance
- Legislative Action
- Building Capacity...Leading



Adding chemicals to the Candidate Chemical list

- In 2023 SCP proposed adding two classes of chemicals to the CC List:
 - Microplastics public workshop held on July 27th
 - PPD derivatives (para-phenylenediamine derivatives) public workshop held on November 1st



Why is the PPD derivative listing important?

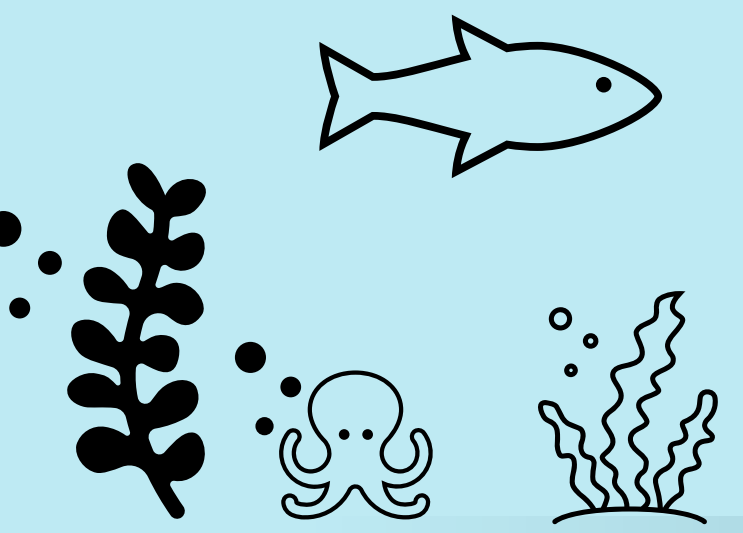
- Motor Vehicle Tires containing 6PPD are listed Priority Products as of October 1st, 2023
- PPD derivatives are viewed as the most effective, currently available, antiozonants for use in tires
- Other PPD derivatives have concerning hazard traits



para-Phenylenediamine (PPD)



Toxicity of other PPD Derivatives



	6PPD	PPD	IPPD	44PD	7PPD	77PD
Acute fish toxicity	vH	vH	vH	vH	vH	vH
Acute invert. toxicity	vH	vH	vH	vH	vH	vH
Algal toxicity	vH	vH	H	vH	-	-

L M H vH

Implications for Proposed Listing

Alternatives Analyses

Signal the need for strong scrutiny if PPD derivatives are included in the Alternatives Analyses for Motor Vehicle Tires containing 6PPD.

IMPACT – More thorough evaluation of any PPD derivatives considered potential alternatives to 6PPD.

Regulatory Responses

SCP would have greater authority and flexibility when imposing regulatory responses if a PPD derivative is selected as the alternative to 6PPD.

IMPACT – Promote determinations that are most protective for public health and the environment.

Priority Products

SCP could regulate consumer products containing any members of the broad class of PPD derivatives as Priority Products.

IMPACT – Expanding the scope of product-chemical combinations SCP could regulate if there are potential for exposures and significant or widespread adverse impacts.



Exposure: Production and Uses



PPD

- Hair dye, photographic developing agent, chemical intermediate, vulcanization accelerator, rubber antioxidant



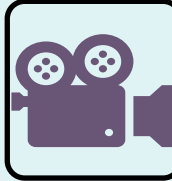
DPPD

- Antioxidant, polymerization inhibitor, copper degradation inhibitor, intermediate for dyes, drugs, plastics, and detergents



IPPD

- Antioxidant



PPPD

- Rubber, dyes, pharmaceuticals, photographic color production



44PD

- Used in gasoline as a gum inhibitor, antioxidant, and stabilizer



6PPD

- Antioxidant, antiozonant



7PPD

- Antioxidant, chemical reaction regulator



77PD

- Antioxidant

- 8 PPD derivatives are high-production volume (HPV) chemicals in the United States
- 100+ are reported to have been used in products

(HPV List, U.S. EPA), (CPDat, U.S. EPA)

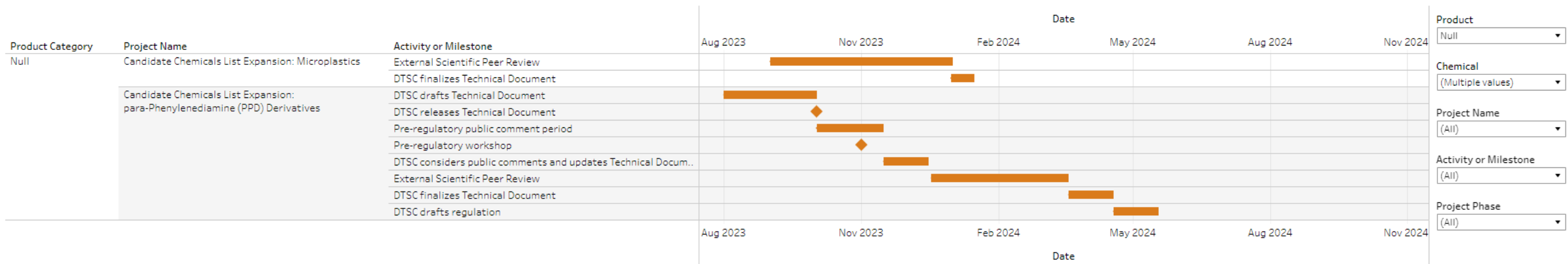


Next Steps for PPD derivatives and microplastic

- External Scientific Peer Review
- Finalization of technical documents
- Initiate rulemaking for listings (Spring 2024)

2023-Q4 SCP Timeline by DTSC Safer Consumer Products (SCP) Program

SCP Timeline as of November 2023



Candidate Chemical List

- SCP developing a “change log” allowing easy identification of changes to the CC list
- The CC list is being used by manufactures responsible for compliance with AB 1200 (2021).
 - Effective January 1, 2024, manufacturers of cookware (pots, pans, skillets, grills, baking sheets, baking molds, trays, bowls, and cooking utensils) containing CC list chemicals must list the presence of those chemicals on the product label.
 - In November, the CC list had the most hits of any DTSC webpage, over 15,000
 - Who was looking? Manufacturers and retailers that sell cookware in CA



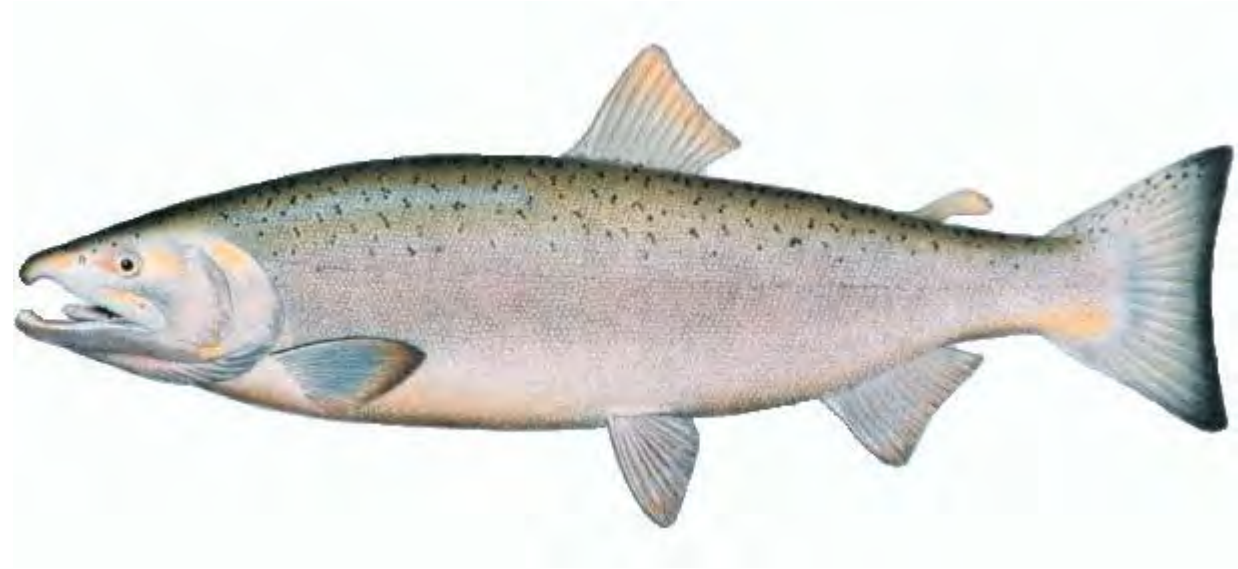
New Priority Products

- Nail Products containing toluene listing took effect January 1, 2023
 - First Alternatives Analysis Threshold (AAT) established (100 ppm)
 - **Additional rulemaking** was conducted to identify analytical method performance criteria for manufacturers to meet AAT exemption requirements.
 - Specifies how manufacturers must demonstrate the concentration of toluene in their products is below the AAT
 - Method performance criteria regulations approved and effective July 26, 2023



6PPD in Motor Vehicle Tires Listed as Priority Product on Oct. 1

- 6PPD-quinone is acutely toxic to endangered & threatened coho salmon (Tian et al., 2020)
 - Toxic to brook trout & rainbow trout/steelhead
 - May jeopardize coho and other salmonid recovery efforts
- Loss of salmonids negatively impacts California Native American Tribes or Nations



Coho salmon. Credit: NOAA



Next Priority Products and other Regulatory Updates

- Public Notice for Laundry Detergents containing NPE's closes on December 31st. Planned effective date summer 2024
- Tires containing zinc – Planned Public Notice Q1 2024
- Nail products containing MMA – Planned Public Notice end of Q1 2024
- SB 502 implementing regulations for petition process and to implement expedited Regulatory Responses anticipate Public Notice Summer 2024
- Cleanup items for SCP Framework Regulations – Summer 2024



Continuing chemical and product research in the pipeline...

- Artificial turf – webinar in early 2024
- Personal care products containing 1, 4-Dioxane
- Hair relaxers and leave-on products
- Nail products with TPP

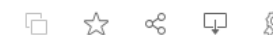


- Products containing QACs
- Children's products
- New and modified categories proposed in the 2024 -2026 PP Work Plan

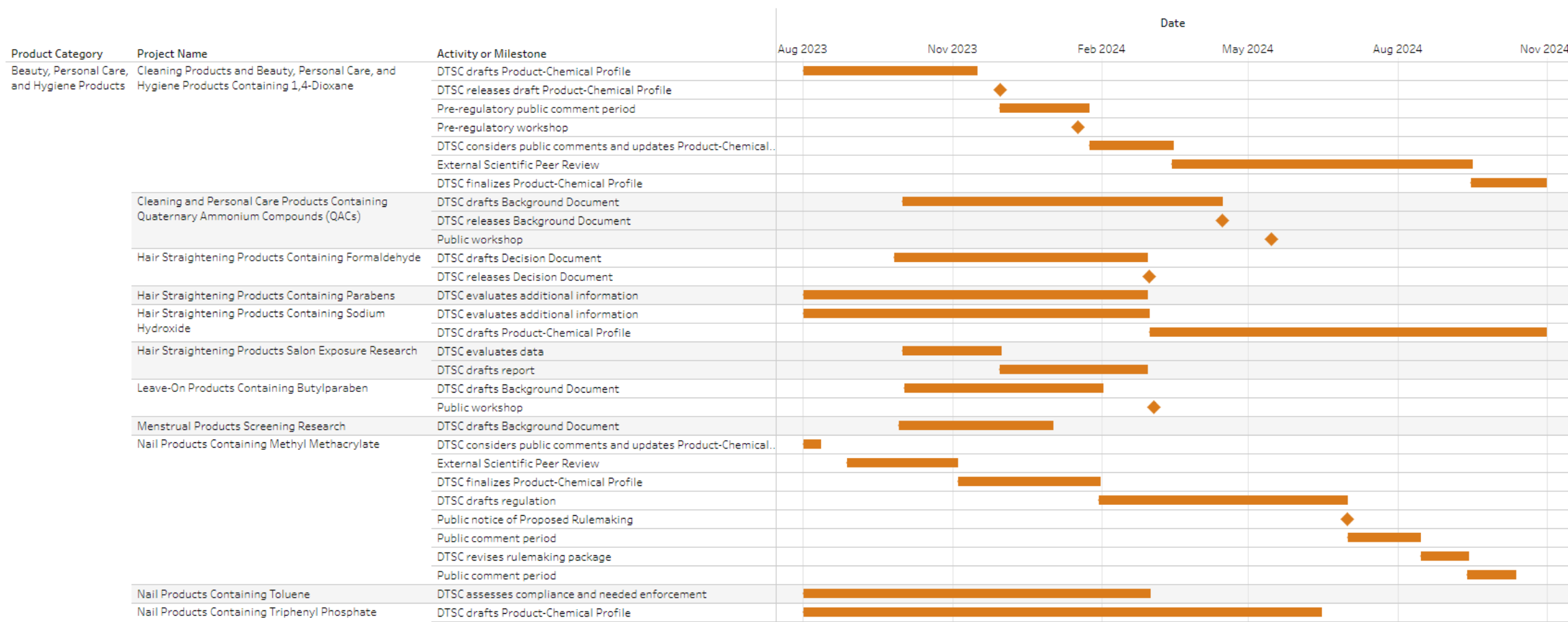


SCP Timeline

2023-Q4 SCP Timeline by [DTSC Safer Consumer Products \(SCP\) Program](#)



SCP Timeline as of November 2023



Product Category
(All)

Product
(All)

Chemical
(All)

Project Name
(All)

Activity or Milestone
(All)

Project Phase
(All)

Alternatives Analysis

- Support and review of Tires with 6PPD AAs
- Securing contract support for US EPA Pollution Prevention grant of \$350,000 to assess/develop tools for environmental justice impacts evaluation within AA
- Initiating update of the AA Users Guide
- Continued engagement with the Association for the Advancement of Alternatives Analysis (A4). SCP active participants at the recent A4 International Symposium, “Enhancing Safety, Health and Equity”



6PPD – Outreach to Tire Manufacturers

83 Priority Product Notifications received

- Many from manufacturers abroad
- Several more waiting to be finalized

Outreach efforts

- Hosted webinar on SCP's regulatory requirements
- Companies representing 15 countries attended
- Participated in RubberNews LiveStream to increase awareness of regulations
- Made video to aid tire companies submitting PPNs

Preliminary Alternative Analyses due March 29, 2024



Active engagement and collaboration

- US Tire Manufactures Association
- Other states (Washington DoE)
- Tribes
- US EPA
- Chemical manufacturers
- Researchers



The screenshot shows the EPA website header with the logo and navigation menu. Below the header, there is a news release titled "EPA Grants Tribal Petition to Protect Salmon from Lethal Chemical" dated November 2, 2023. The release text states that the EPA is granting a petition from the Yurok Tribe, the Port Gamble S'Klallam Tribe, and the Puyallup Tribe of Indians to address the use of the chemical N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD) in tires. The chemical 6PPD has been used in motor vehicle tires for more than six decades to make them more durable. It can also be found in other rubber products such as footwear, synthetic turf infill, and playgrounds.

EPA United States Environmental Protection Agency

Search EPA.gov

Environmental Topics ▾ Laws & Regulations ▾ Report a Violation ▾ About EPA ▾

News Releases: [Headquarters](#) | [Chemical Safety and Pollution Prevention \(OCSPP\)](#) CONTACT US

EPA Grants Tribal Petition to Protect Salmon from Lethal Chemical

November 2, 2023

Contact Information
EPA Press Office (press@epa.gov)

WASHINGTON – Today, in support of its mission to protect human health and the environment, the U.S. Environmental Protection Agency (EPA) is granting a petition from the Yurok Tribe, the Port Gamble S'Klallam Tribe, and the Puyallup Tribe of Indians to address the use of the chemical N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD) in tires. The chemical 6PPD has been used in motor vehicle tires for more than six decades to make them more durable. It can also be found in other rubber products such as footwear, synthetic turf infill, and playgrounds.



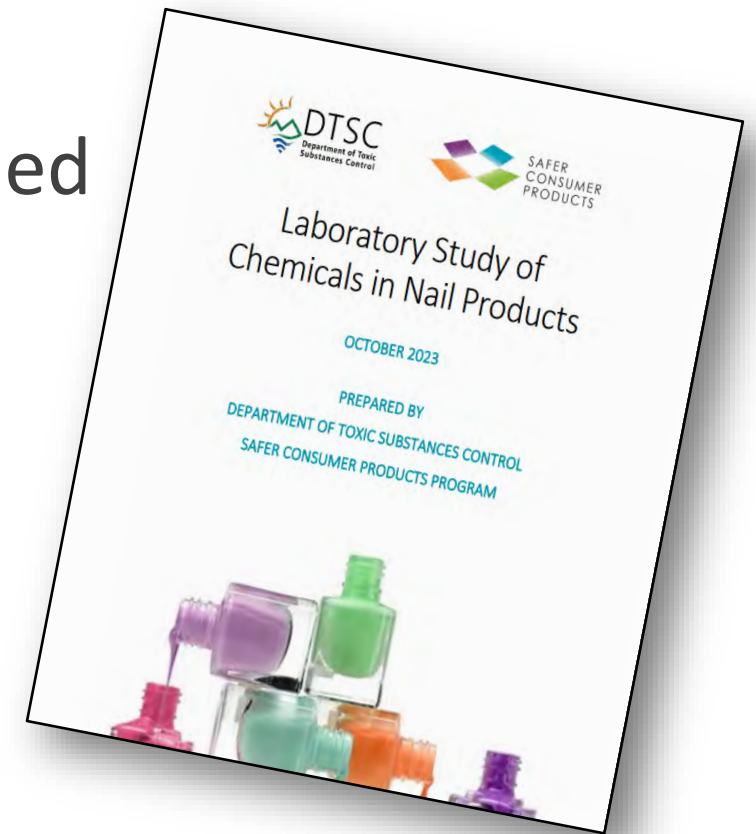
Regulatory Responses for Spray Polyurethane Foam

- Notices of Proposed Determinations issued November 13, 2023
- Public Workshop held November 29, 2023
- Public comment period closes January 12, 2024
- SCP will finalize RRs and implement with manufacturers via consent agreements or orders
- **The proposed regulatory responses consist of:**
 - Providing information to users about the hazards of the product;
 - Collectively, investing \$8 million in green chemistry and engineering research to develop safer alternatives to SPF Systems; and
 - Ensuring users receive safety training before using the product.



Compliance Assessment

- Nail Products Report, October 2023
- Carpets and Rugs Investigation ongoing now
- PFAS Treatment Products Investigation planned
- Nail products and toluene



Recent and New PFAS laws

- AB 2247 (Bloom, 2022) – PFAS disclosure (vetoed)
- AB 1200 – Food packaging – Effective January 1, 2023
- AB 652 – Juvenile Products – Effective July 1, 2023
- AB 2771 – Cosmetic products – Effective January 1, 2025
- AB 1817 – Textile Articles – Effective January 1, 2025
- A number of new PFAS restriction bills were passed or vetoed recently. DTSC is working with the legislature, stakeholders and the Attorney General to address broad challenges on implementing and enforcing effective PFAS laws.



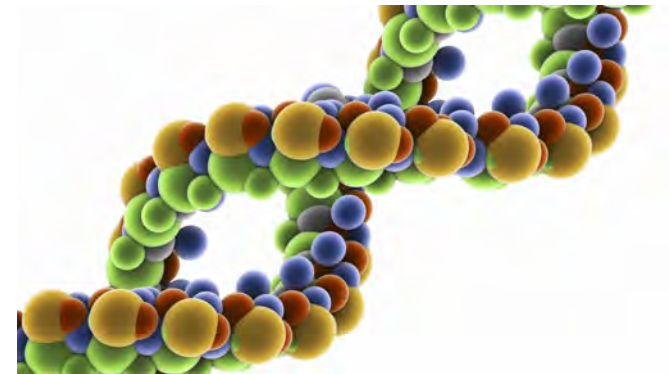
Motor Vehicle Brake Friction Material Law – Report to the Legislature

- In August, in coordination with the State Water Resources Control Board, DTSC submitted a report to the legislature on the implementation of the law and progress toward meeting total maximum daily load (TMDL) allocations <https://dtsc.ca.gov/wp-content/uploads/sites/31/2023/08/Brake-Pad-Legislative-Report-Accessible.pdf>
- Report highlights the success of the law in reducing the levels of copper and other heavy metals in brake friction materials, along with expected reductions in environmental concentrations.
- Recommendations to consider enhancement of statewide environmental monitoring capabilities, and consideration of narrowing exemptions.

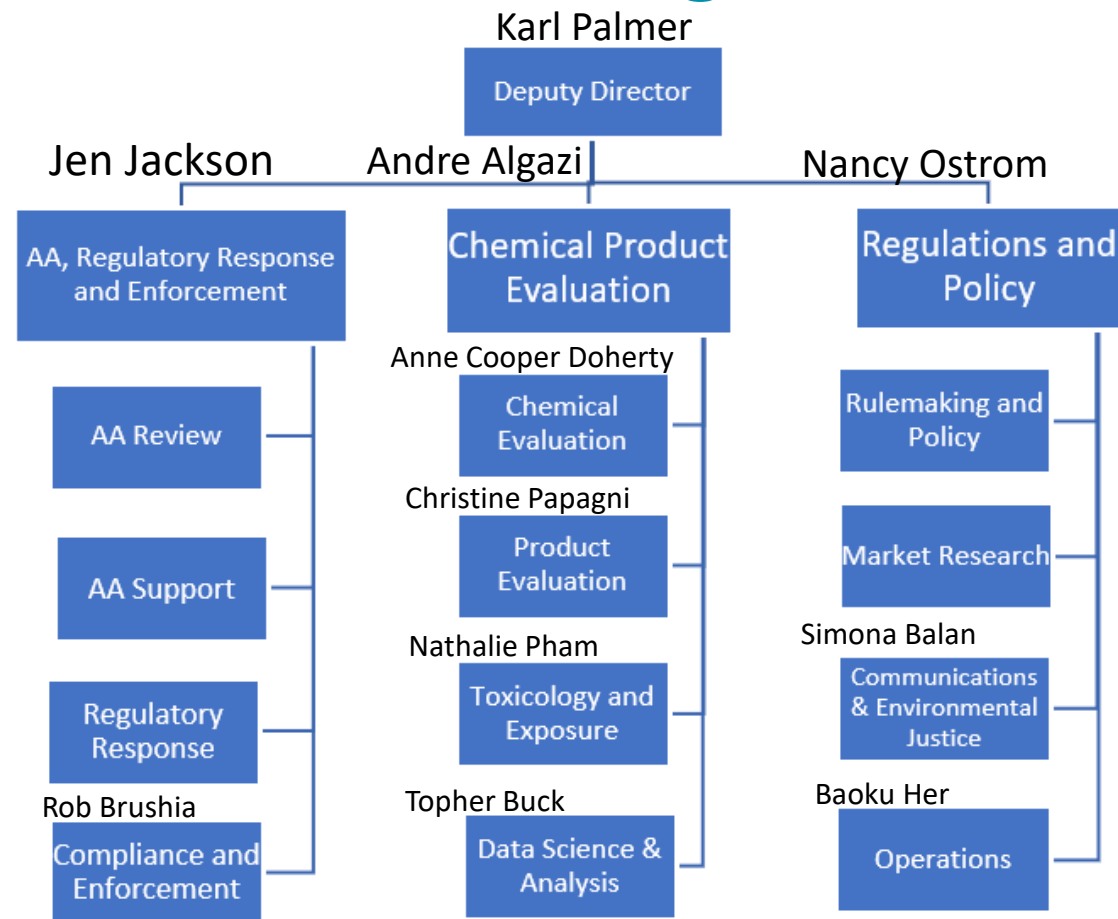


Building Capacity

- New fee and revenue reforms provided DTSC with resources needed in all core programs, including SCP
- SCP received 37 new positions, as well as 2 new positions for work on brake pad law compliance and processing extension requests:
 - 24 Scientists (entry level, senior, supervisors and toxicologists)
 - 9 Engineers (entry level, senior, supervisors)
 - 3 Analysts
 - 1 Research Data Specialist
 - 2 Branch Chiefs (Environmental Program Managers)



Program Growth – New SCP Organization Chart



From : One branch with 3 units and 41 positions, to three branches and 12 units, 80 positions

4 Interns and 2 Scientific Aids



Building capacity

- Great opportunity – and great challenge
 - #1 SCP Priority is recruitment, hiring, onboarding, mentoring, training of new staff
 - Process slowed some project work
 - Promotions provided upward mobility, but created new vacancies
 - Multi-pronged recruitment efforts:
 - Virtual open houses, Ambassador Program, Handshake, etc.
- All Branch Manager positions filled
- 7 of 12 supervisors have been hired (1 retired)
- Prioritized hiring of Sr. Environmental Scientists and Environmental Scientists. Balance = supervisors, Engineers, data specialists and analysts. Roughly halfway there...
- <https://dtsc.ca.gov/scp/safer-consumer-products-career-opportunities/>



Collaboration and leadership

- EPA/DTSC Memorandum of Understanding
 - SCP, ORD and OCSPP staff meeting quarterly to share updates and identify, prioritize and implement projects for collaboration
- TSCA Workgroup – state and local gov’t coordination with US EPA
- “Western Coast” MOU signed and regular collaboration
- Continuing ongoing work with state and local government and professional organizations and groups, e.g., IC2, A4, ECOS, GC3, ITRC...

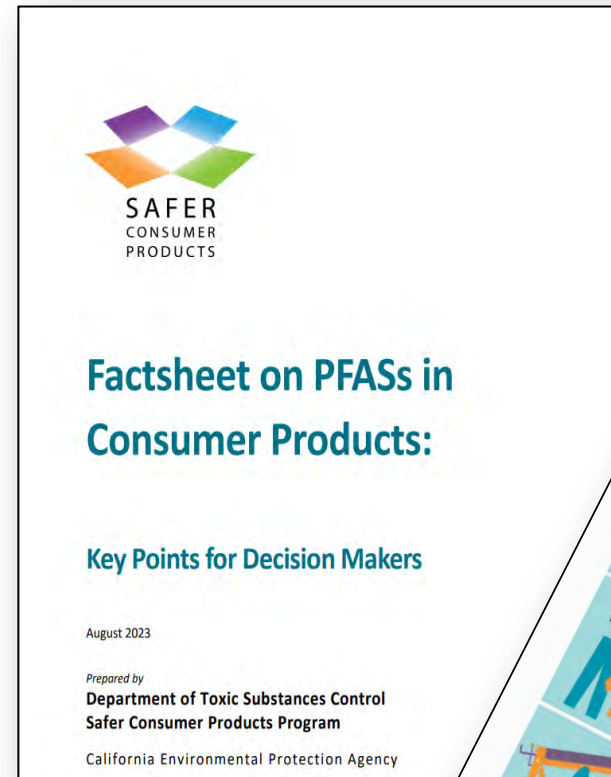


Leading...

- New web page highlight published papers, videos and talks: <https://dtsc.ca.gov/scp/publications-and-media/>
- 2023 published papers...
 - **Meng Q**, and **Zhou X** (2023) [Enhancing the Value of Comparative Exposure Assessment in Alternatives Assessment](https://doi.org/10.3389/frsus.2023.983218). Front. Sustain. <https://doi.org/10.3389/frsus.2023.983218>
 - Arnold WA, Blum A, **Branyan J**, **Bruton TA**, Carignan C, Cortopassi G, Datta S, DeWitt J **Doherty A-C**, Halden RU, Harari H, Hartmann EM, Hrubec TC, Iyer S, Kwiatkowski CF, LaPier J Li D, Li L, Mu?iz Ortiz JG, Salamova A, Schettler T, Seguin RP, Soehl A, Sutton R, Xu L, Zheng G (2023) [Quaternary Ammonium Compounds: A Chemical Class of Emerging Concern](https://doi.org/10.1021/acs.est.2c08244). Environ Sci Technol <https://doi.org/10.1021/acs.est.2c08244>
 - **Bălan SA**, Andrews DQ, Blum A, Diamond ML, Fern?ndez SR, Harriman E, Lindstrom AB, Reade A, Richter L, Sutton R, Wang Z, Kwiatkowski CF (2023) [Optimizing chemicals management in the United States and Canada through the essential-use approach](https://doi.org/10.1021/acs.est.2c05932). Environ Sci Technol <https://doi.org/10.1021/acs.est.2c05932>
 - **Doherty AC**, Lee CS, **Meng Q**, **Sakano Y**, **Noble AE**, **Grant KA**, Esposito A, Gobler CJ Venkatesan AK (2023) [Contribution of household and personal care products to 1,4-dioxane contamination of drinking water](https://doi.org/10.1002/ehp2.100414). Curr Opin Environ Sci Health 31:100414



Videos and Fact Sheets



Thank you!



dtsc.ca.gov/scp
karl.palmer@dtsc.ca.gov

Public Comments

- In Room – Fill out a comment card with your name
- Submit your comments to SaferConsumerProducts@dtsc.ca.gov
- Oral Public Comment via Zoom:
 - Raise your hand to indicate your desire to speak
 - Use the "Raise Hand" function in Zoom
 - If you are calling in, dial *9 to raise your hand and *6 to unmute

Important Note: Please turn off the webcast if you are speaking via Zoom to avoid feedback sound or echo.





15 min Meeting Break

Meeting Resumes at 10:35 am



Department of Toxic Substances Control



CalEPA



GRSP Topic 1: Reflecting on a Decade of Progress and Charting the Parth Forward



Department of Toxic Substances Control



CalEPA

Safer Consumer Products Program at Age 10:

A Decade of Progress



SAFER CONSUMER P

Department of Toxic Substances Control



Toxics in Products Authorities

- Toxics in packaging
- Lead and arsenic containing jewelry
- Lead in plumbing
- Lead wheel weights
- General purpose lights
- Electronic devices
- Mercury containing devices



Legislative whack-a-mole



The utilization of a set of principles that reduces or eliminates the use or generation of hazardous substances in the design, manufacture, and application of the chemical products.

- *Anastas and Warner*
Green Chemistry: Theory and Practices, 2000



2006

The cover features a vertical strip of six images on the left: the California State Capitol building, a crowded outdoor market, a field of green crops, a sleeping baby, a yellow paint can, and a scientist in a lab. The background is a light green gradient with a faint outline of California. The text 'GREEN CHEMISTRY:' is in large white letters, with the subtitle 'Cornerstone to a Sustainable California' below it. At the bottom left is the University of California seal, and at the bottom right is the text 'The Centers for Occupational and Environmental Health University of California'.

2007

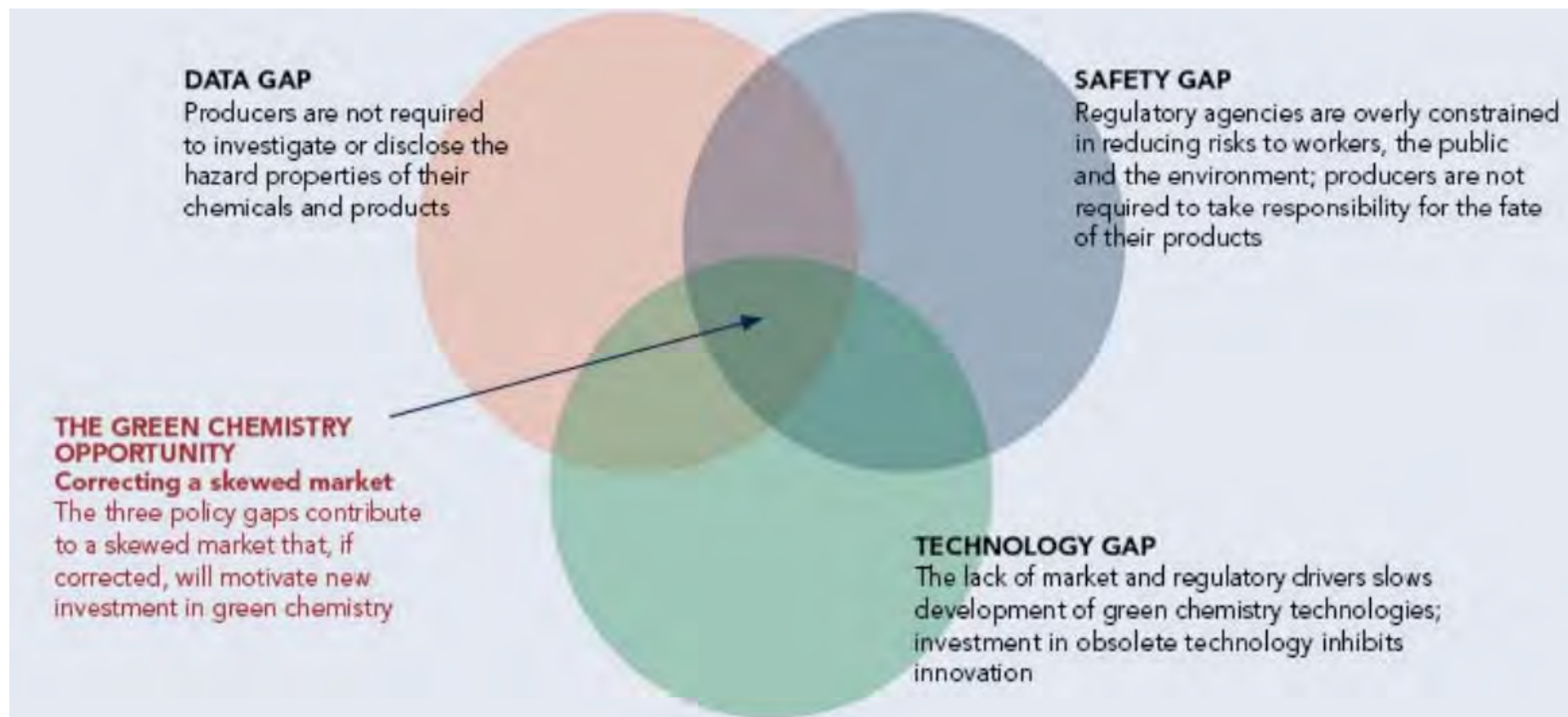
The cover features a large, close-up image of a glass beaker with a yellow liquid being poured into it. The background is a solid blue color. At the bottom, the text 'California Green Chemistry Initiative' is in white, with 'Final Report' in yellow below it. A horizontal strip of six small images is at the very bottom, showing various chemical and environmental scenes: a beaker with green liquid, a red '8' on a surface, a calculator, a pink spray bottle, a hand holding a brown jar, and a green tree.

SAFER CONSUMER PRODUCTS PROGRAM DEPARTMENT OF TOXIC SUBSTANCES CONTROL

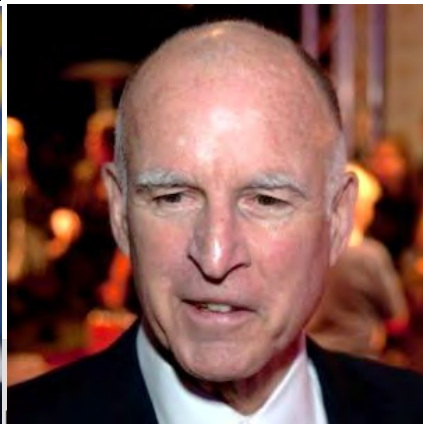
<http://coeh.berkeley.edu/greenchemistry/briefing/>

https://www.dtsc.ca.gov/PollutionPrevention/GreenChemistryInitiative/upload/GREEN_Chem.pdf

Chemicals Policy Framework



CA Safer Consumer Product Laws (AB 1879 and SB 509, 2008)



“A-M” Criteria (from the statute)

- A. Product function/ performance
- B. Useful life
- C. Materials/resource consumption
- D. Water conservation
- E. Water quality impacts
- F. Air emissions
- G. Product use, transportation, energy inputs
- H. Energy efficiency
- I. Greenhouse gas emissions
- J. Waste and end-of-life disposal
- K. Public health impacts: sensitive sub-populations
- L. Environmental impacts
- M. Economic impacts



2007-2013: California's Approach



Green Chemistry Report

- Scientific Symposiums
- Science Advisory Panel
- Green Ribbon Science Panel

Green Chemistry Options

- Stakeholder Forums
- Web
- Outreach

Policy Thinking

- Stakeholder Input

2010 Draft Regulations

- Stakeholder Input
- Statutory Date
- Administration Policy

2012 Draft Regulations

- Stakeholder Input
- Administration Support
- Expanded Use of Experts
- Scientific Peer Review

2013 Safer Consumer Products Regulations



The Three Pillars of the SCP Program

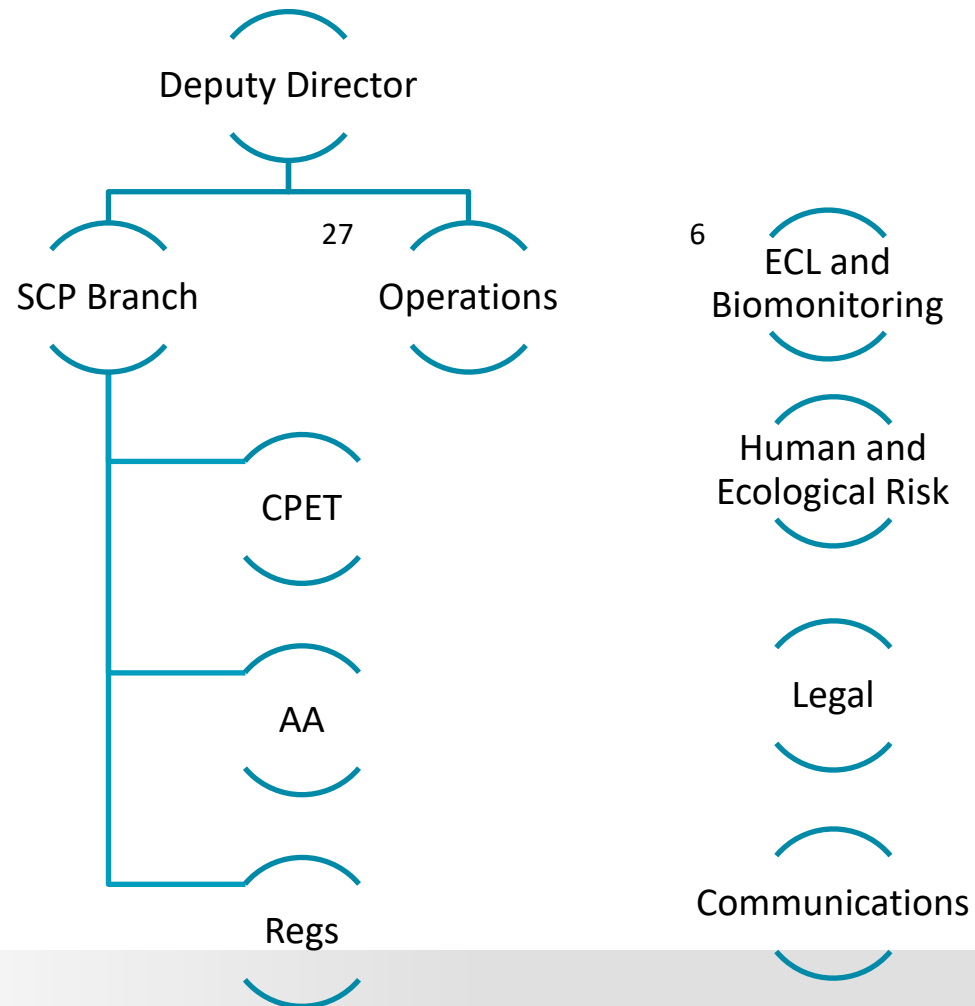
Build Capacity

Lead the Way

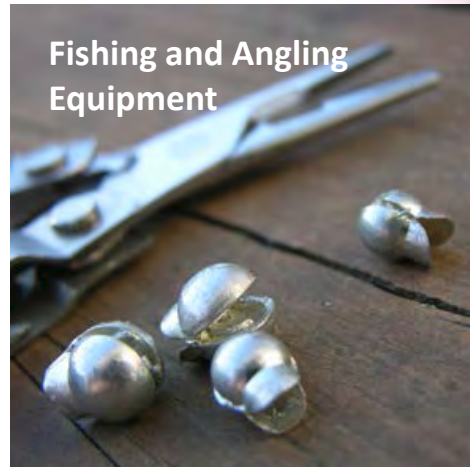
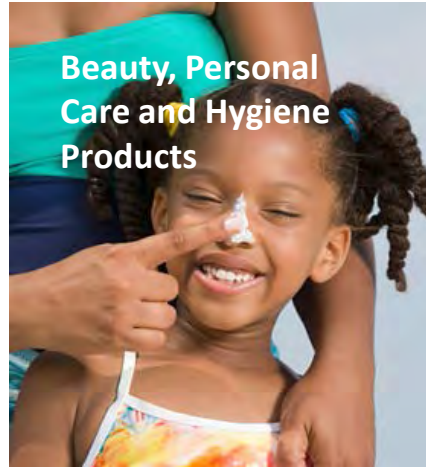
Execute



SCP Organization and Staff Resources

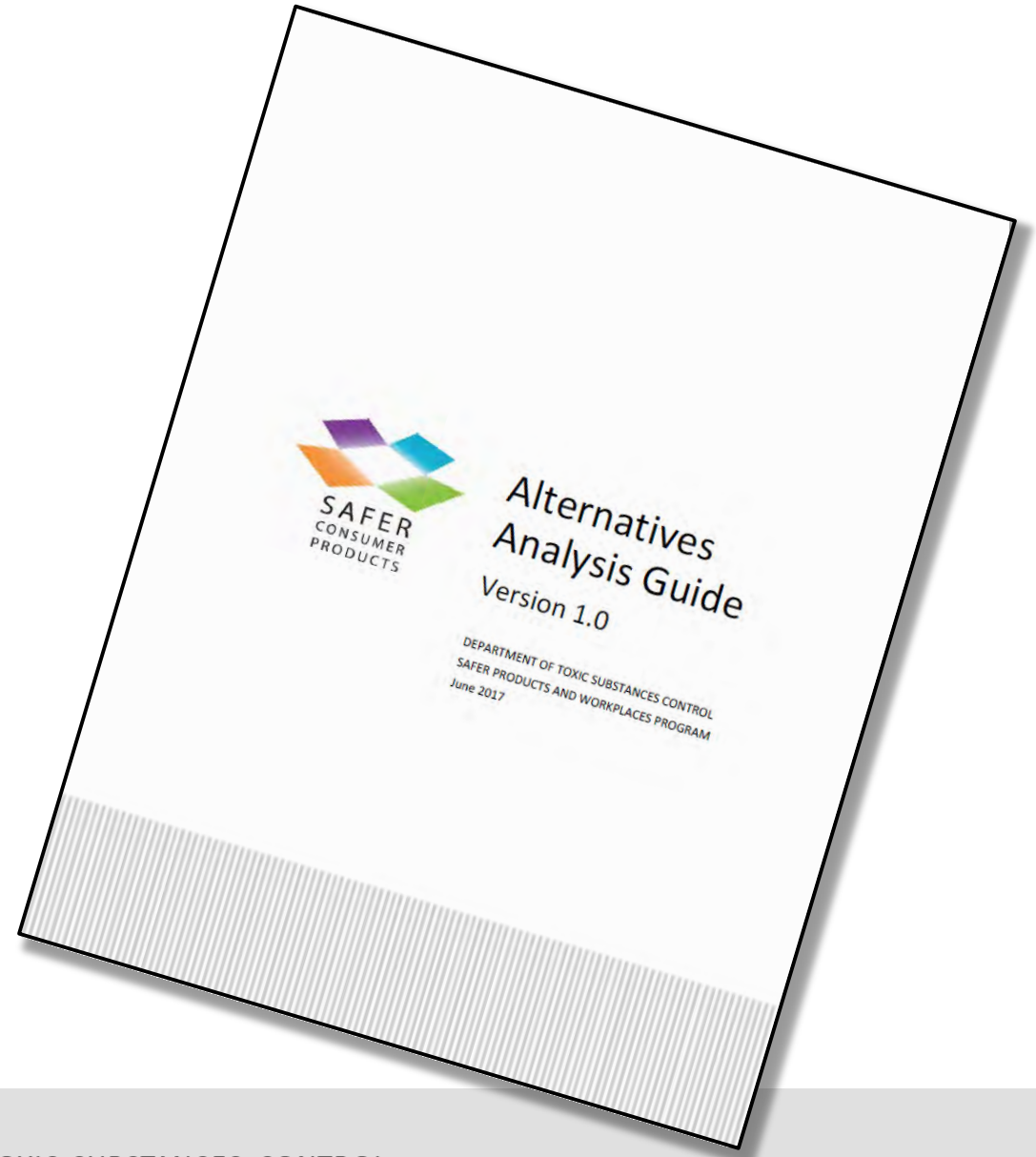


2015 – 2017 Priority Product Work Plan Categories



AA Guide

- Released in June 2017
- Extensive examples and methods to meet SCP's AA requirement
- SCP commitment to supporting best practices and compliance assistance



CalSAFER: SCP's Information Management System

The screenshot shows the CalSAFER website home page in a web browser. The browser's address bar shows the URL <https://calsafer.dtsc.ca.gov>. The page features the CalSAFER logo, which consists of four overlapping diamond shapes in purple, blue, orange, and green, followed by the text "CalSAFER" and "SAFER CONSUMER PRODUCTS INFORMATION MANAGEMENT SYSTEM" below it. A search bar is located to the right of the logo. The navigation menu includes "Home", "Search", "Submit", "Help", "Sign In", and "Register". The main content area has a large banner image of the California State Capitol building. Below the banner, there are three columns of content: "Welcome!" with a paragraph about the system, "Our Regulations" (partially visible), "Program Activities" with sub-sections for "Alternatives Analysis" and "Comments", and a "Priority Products" section with a search and submit button.

CalSAFER: Home

Secure | <https://calsafer.dtsc.ca.gov>

Apps | San Francisco Public | Yolo Co. birding guide | Welcome | DTSC email office 365 | 2101 Constitution Ave | Western States Green | Passport Application

 CalSAFER

SAFER CONSUMER PRODUCTS INFORMATION MANAGEMENT SYSTEM

Home Search Submit Help Sign In Register

Home

Need help with this page? [On-screen Guide](#)

Welcome!

CalSAFER is a data management system maintained by the Department of Toxic Substances Control (DTSC). It operates as the information center for the regulatory activities of the Safer Consumer Products Program (SCP). Entities subject to SCP regulations will be able to communicate and exchange information with the Department through this portal, and stakeholders will be able to view and/or comment on submissions.

Our Regulations

Program Activities

Alternatives Analysis

Responsible entities who manufacture a Priority Product will be required to submit an Alternatives Analysis (AA) report to the Department. To submit an AA Report, log in and select Alternatives Analysis Report under the Submit link in the top menu bar. [Click here to view AA Reports that have been submitted to the Department.](#)

Comments

SCP proposed Regulations, Priority Product Work Plans,

Priority Products

No priority products have been released.

 [Search](#)

Search CalSAFER for comments received during public comment periods, Notifications, Alternatives Analysis reports, proposed Regulatory Response determinations, petitions, documents supporting petitions and comments, Failure to Comply lists, and more.

 [Submit](#)



SCP Accomplishments by the Numbers

3	Priority Product Workplans issued
7	Priority Product regulations adopted
10	Product categories researched
80	Chemicals and chemical classes researched
26	Technical documents published
42	Public comment periods held
53	Workshops, webinars, and other public meetings hosted
24	Early career scientists and engineers mentored



Key Milestones

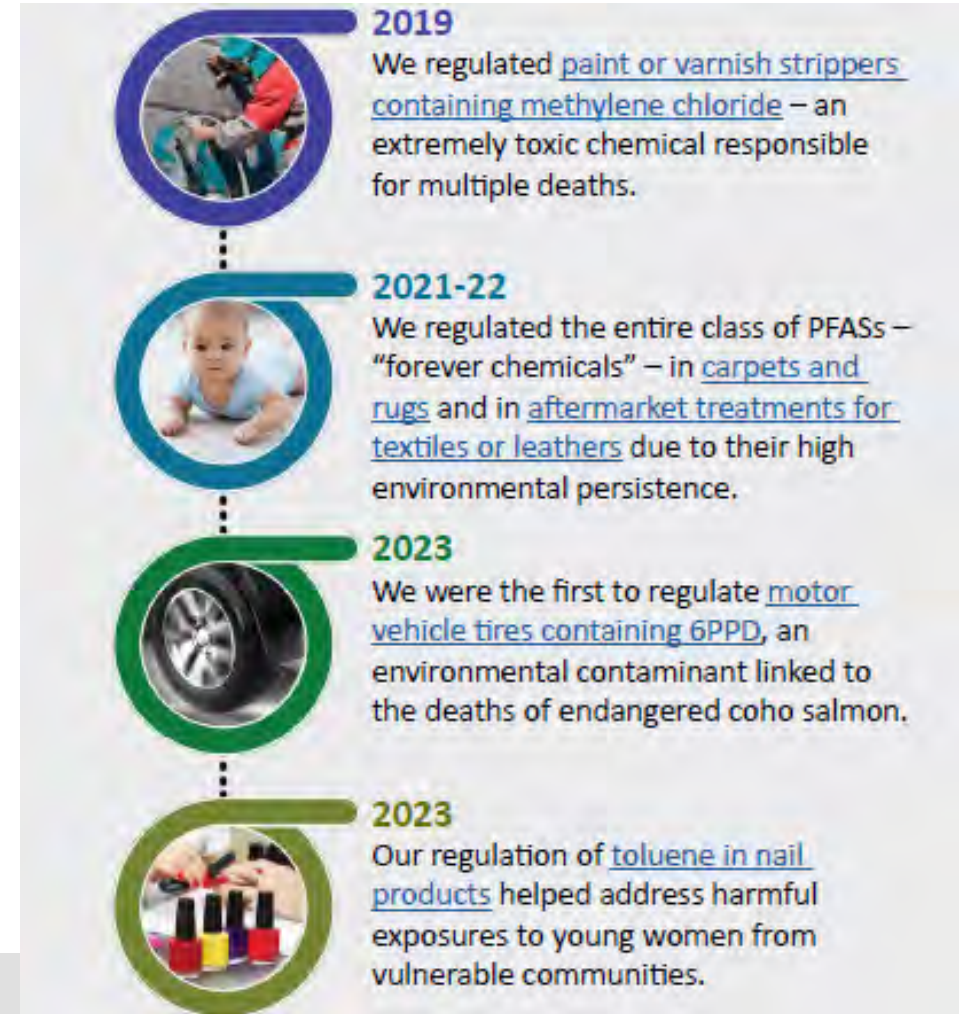


2014
We created the [CalSAFER](#) online database, where our stakeholders and the public can easily search through the 3,000+ Candidate Chemicals SCP has the potential to regulate.

2017
We published the [Alternatives Analysis Guide](#) to help responsible entities understand and meet the SCP regulatory requirements to investigate safer alternatives.

2017
We regulated the use of two potentially carcinogenic [flame retardants in children's sleeping products](#).

2018
We regulated [spray polyurethane foam systems containing the chemical MDI](#), which poses an asthma risk to workers and DIYers.



2019
We regulated [paint or varnish strippers containing methylene chloride](#) – an extremely toxic chemical responsible for multiple deaths.

2021-22
We regulated the entire class of PFASs – “forever chemicals” – in [carpets and rugs](#) and in [aftermarket treatments for textiles or leathers](#) due to their high environmental persistence.

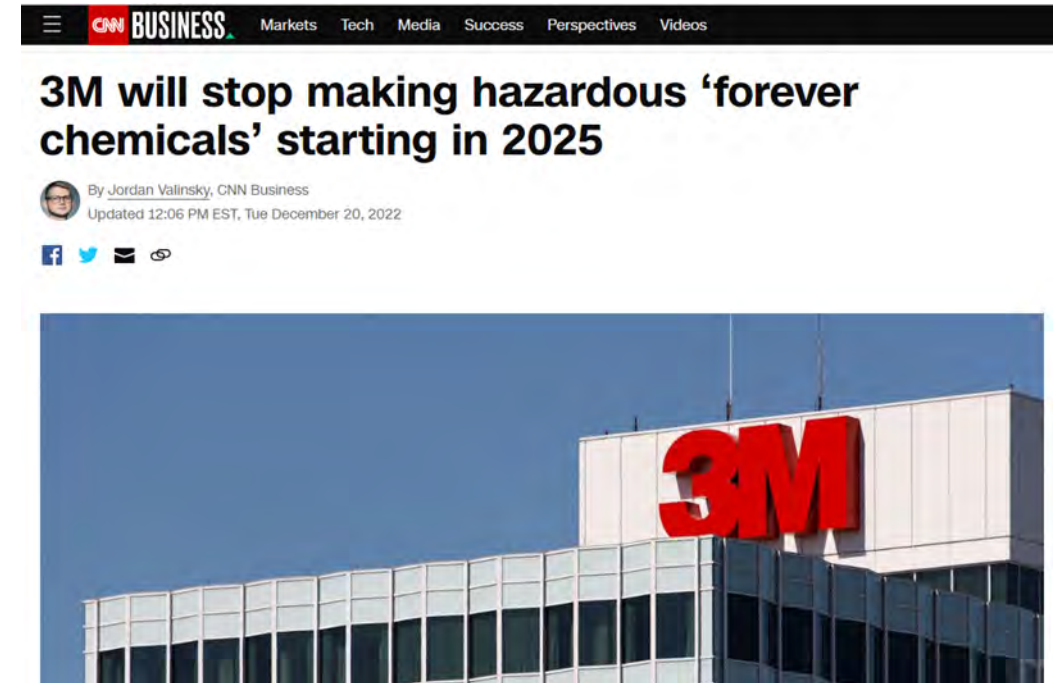
2023
We were the first to regulate [motor vehicle tires containing 6PPD](#), an environmental contaminant linked to the deaths of endangered coho salmon.

2023
Our regulation of [toluene in nail products](#) helped address harmful exposures to young women from vulnerable communities.



Impacts

- Our regulations have helped remove millions of pounds of hazardous chemicals from the California market, including up to 1.3 million pounds of methylene chloride and a quarter million pounds of PFASs each year
- DTSC work on food packaging containing PFAS provided basis for legislation (AB 1200) restricting use of PFAS in plant-based food packaging and cookware



Nail salon products

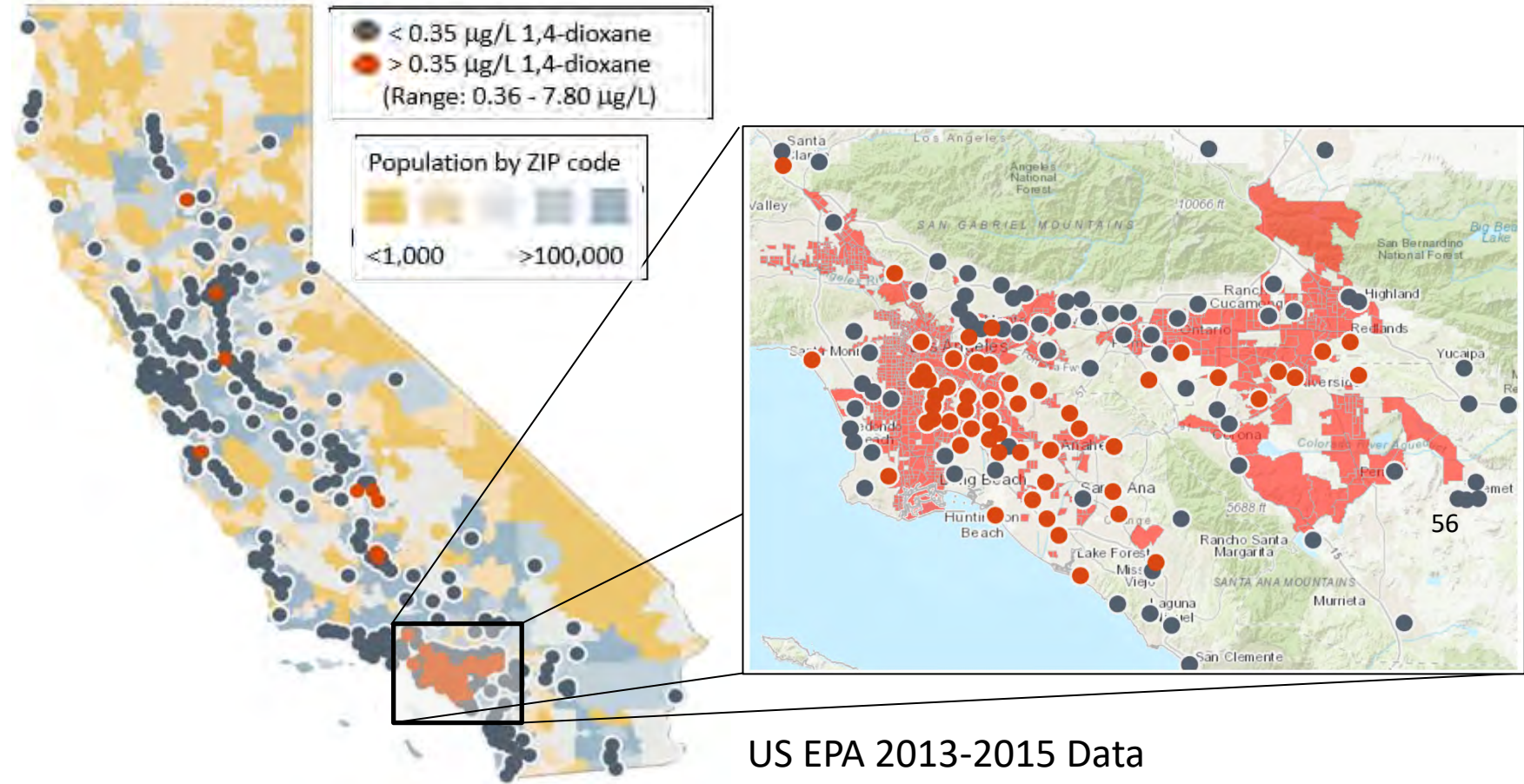
- Extensive work in the sector and focus on the most vulnerable
- Chemical research beyond formaldehyde, toluene, DBP
- AB 2125 Healthy Nail Salon Rec
- Nail coatings with toluene as Pr
- 2023 Lab Study and Informatior



<http://dtsc.ca.gov/SCP/Workshops.cfm>



Prioritizing Sensitive Sub-Populations: Environmental Justice Communities



Data science tools and opportunities

California Manufacturers and Disadvantaged Communities and Tribal Lands

Database

CDR

CERS

FRS

TRI

Industrial Classification System

NAICS

Select Industrial Code

No category selected

Select Industrial Category

No category selected

up information about a facility.

- Hover over bar charts to see more details.
- Use the slide bar on the top of the "Industrial Categories" bar chart to zoom in on categories.

Filter data:

- by using the filters on the top of the screen;
- by selecting options on the graphs on the left side of the screen.

Filters include the following:

- filter by the database* where the data came from;
- filter to show only facilities with Standard Industrial Classification (SIC)* code or North American Industry Classification System (NAICS)* code;
- filter by NAICS or SIC code;
- filter by categories.*

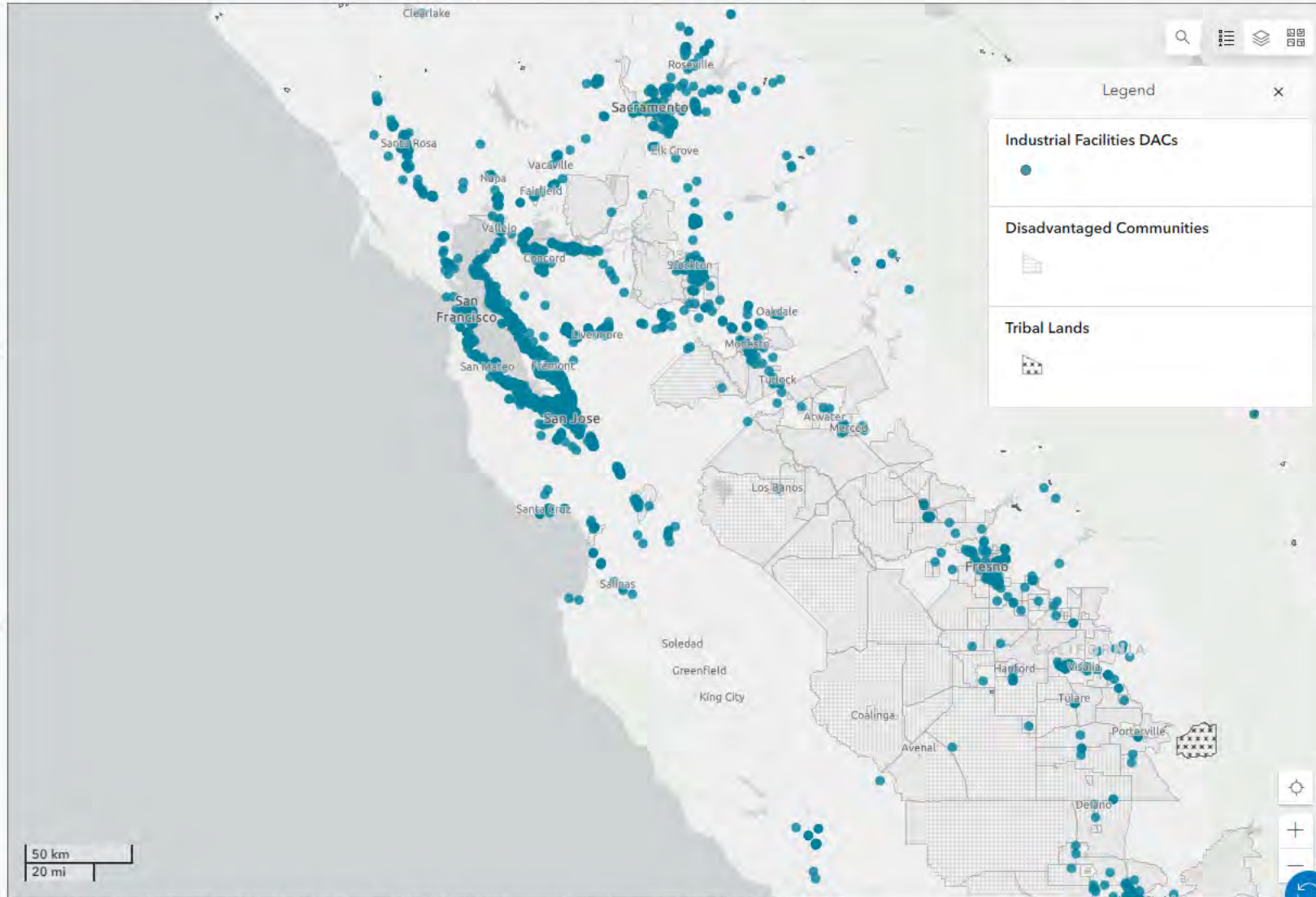
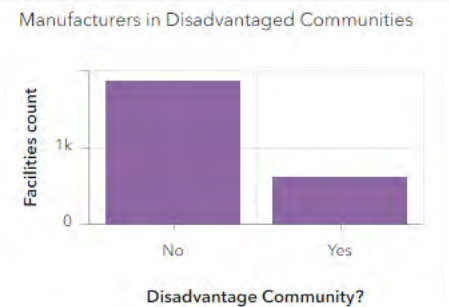
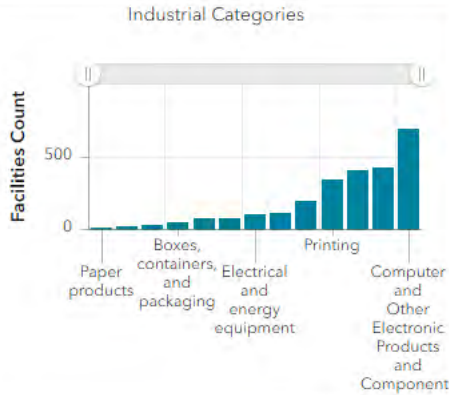
Interactive graphs are dynamic (the data change based on the map's areas) and reflect the following

- categories of manufacturers that are currently shown on the screen;
- number of facilities that fall within disadvantaged communities* (DACs);
- facilities that are expected to use PFASs* in their manufacturing process;

For more information about the project and the dashboard, click [here](#).

*See the definitions and references in the "Terminology" section.

If you have any questions or suggestions for this dashboard, please contact SaferConsumerProducts@dtsc.ca.gov





SAFER
CONSUMER
PRODUCTS

July 23, 2021

Christine Papagni
Senior Scientist

Chemicals in Hair Straightening Products



Department of Toxic Substances Control



CalEPA



MARCH 2022 • FINAL VERSION

Product - Chemical Profile for Motor Vehicle Tires Containing N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD)



Product – Chemical Profile for Carpets and Rugs Containing Perfluoroalkyl or Polyfluoroalkyl Substances

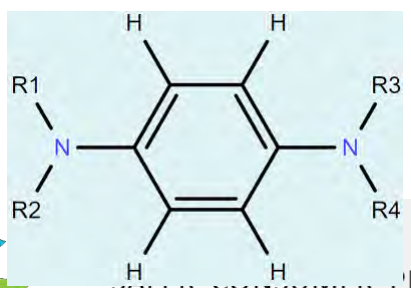
OCTOBER 2019 • FINAL VERSION



Statewide Microplastics Strategy

Understanding and Addressing Impacts to Protect Coastal and Ocean Health

February 2022
OCEAN PROTECTION COUNCIL

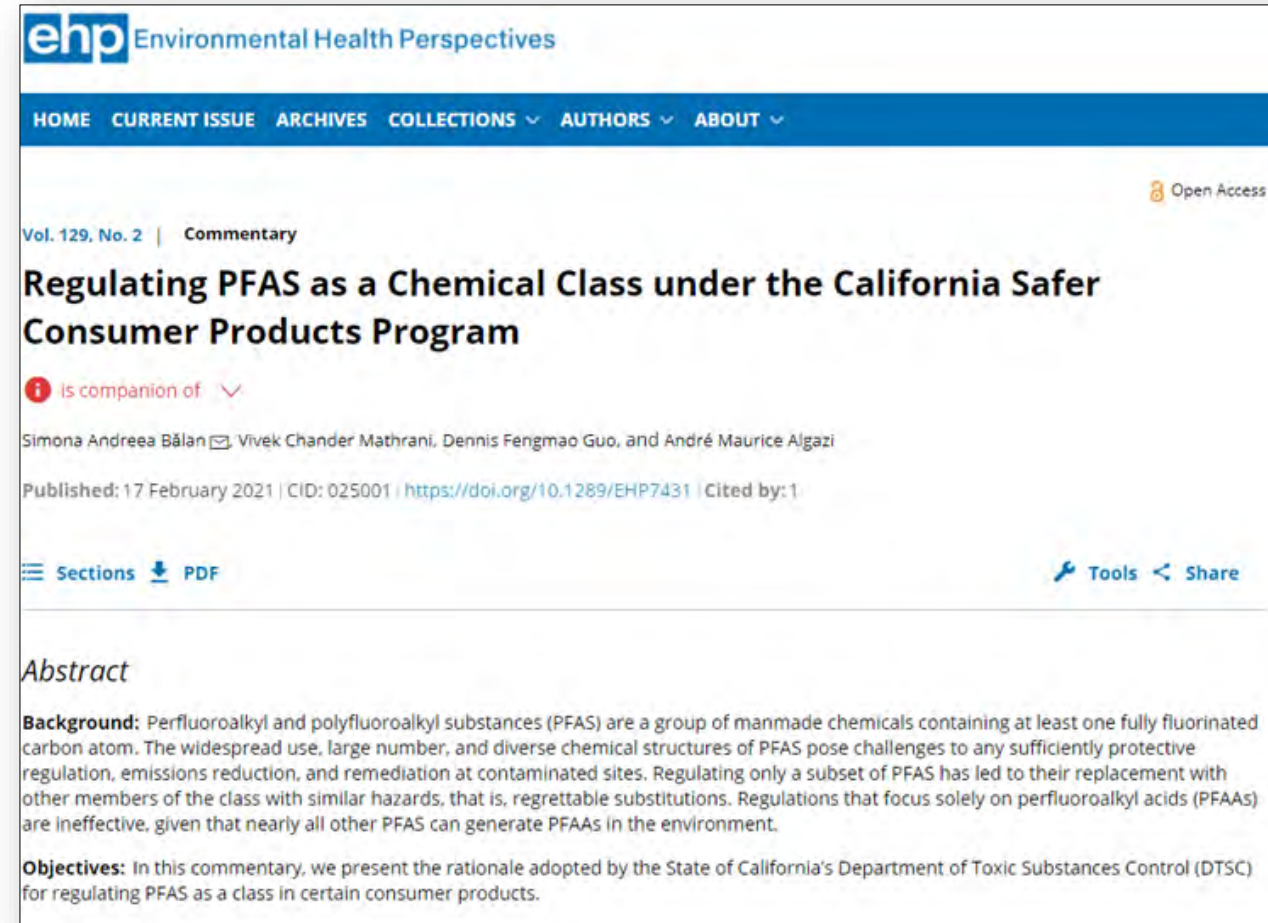


Examples of Products that Contain PFASs			
<p>Food Containers & Packaging</p>			<p>Furniture</p>
<p>Fabric Protectors</p>	<p>Carpet & Rugs</p>	<p>Nonstick Cookware</p>	<p>Furnishings (Tablecloths, Curtains & Sheets)</p>
<p>Water & Stain-resistant Clothing</p>	<p>Floor Polishes</p>	<p>Personal Care Products</p>	<p>Paint</p>
<p>Construction Materials</p>	<p>Touchscreen Devices</p>	<p>Automotive Components</p>	<p>Solar Panels & Wind Turbines</p>

Leadership

Principles & Strategies

- Precautionary
- Regulating chemicals as a class. For PFASs: the entire class is defined as the Chemical of Concern.
- Proposing adding Microplastics and PPDs to the Candidate Chemical list
- Signatory to “*Principles for Ingredient Disclosure*” developed by over 100 businesses, NGOs, governments, universities and investors.
- Authored/co-authored 14 peer-reviewed articles and book chapters - 150,000 views and 1,177 citations



The screenshot shows the web page for a commentary article in Environmental Health Perspectives. The page header includes the journal logo and navigation links. The article title is "Regulating PFAS as a Chemical Class under the California Safer Consumer Products Program". It is identified as a commentary from Volume 129, No. 2. The authors listed are Simona Andreea Bălan, Vivek Chander Mathrani, Dennis Fengmao Guo, and André Maurice Algazi. The article was published on February 17, 2021, and has a DOI of 10.1289/EHP7431. The abstract discusses the challenges of regulating PFAS as a class and the rationale for the California Safer Consumer Products Program.

ehp Environmental Health Perspectives


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Open Access

Vol. 129, No. 2 | Commentary

Regulating PFAS as a Chemical Class under the California Safer Consumer Products Program

is companion of ▾

Simona Andreea Bălan , Vivek Chander Mathrani, Dennis Fengmao Guo, and André Maurice Algazi

Published: 17 February 2021 | CID: 025001 | <https://doi.org/10.1289/EHP7431> | Cited by: 1

Sections PDF Tools Share

Abstract

Background: Perfluoroalkyl and polyfluoroalkyl substances (PFAS) are a group of manmade chemicals containing at least one fully fluorinated carbon atom. The widespread use, large number, and diverse chemical structures of PFAS pose challenges to any sufficiently protective regulation, emissions reduction, and remediation at contaminated sites. Regulating only a subset of PFAS has led to their replacement with other members of the class with similar hazards, that is, regrettable substitutions. Regulations that focus solely on perfluoroalkyl acids (PFAAs) are ineffective, given that nearly all other PFAS can generate PFAAs in the environment.

Objectives: In this commentary, we present the rationale adopted by the State of California's Department of Toxic Substances Control (DTSC) for regulating PFAS as a class in certain consumer products.

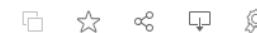
Collaboration, Coordination, Leveraging...

- US EPA/DTSC Memorandum of Understanding
 - Advancement, development, and implementation of green, safer, and sustainable chemistry practices
- “West Coast” MOU
 - MOU with Washington Department of Ecology and Oregon Department of Environmental Quality
- TSCA Workgroup
- Continuing ongoing work with state, local, and tribal government and professional organizations and groups, e.g., IC2, A4, ECOS, GC3, ITRC...
- Continue and expand work with academia, NGOs and businesses to promote safer products, safe and sustainable chemistry

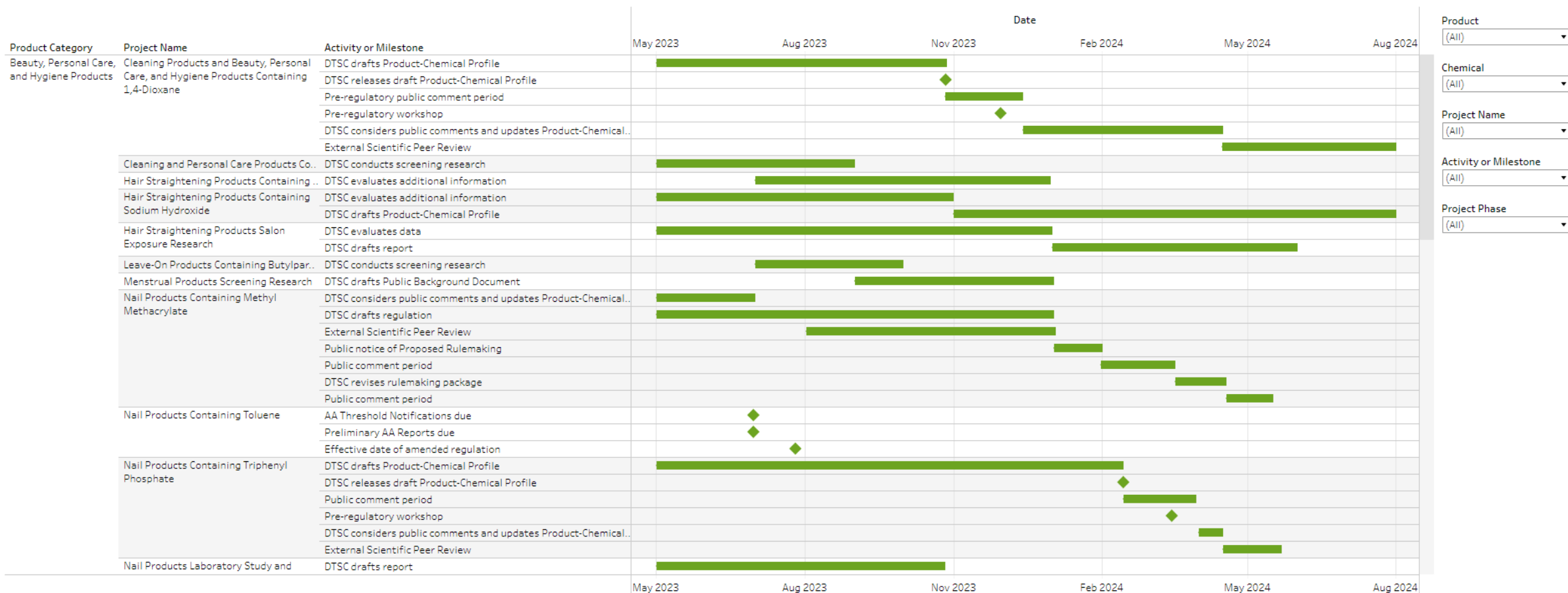


What we're working on...

2023-Q3 SCP Timeline by DTSC Safer Consumer Products (SCP) Program

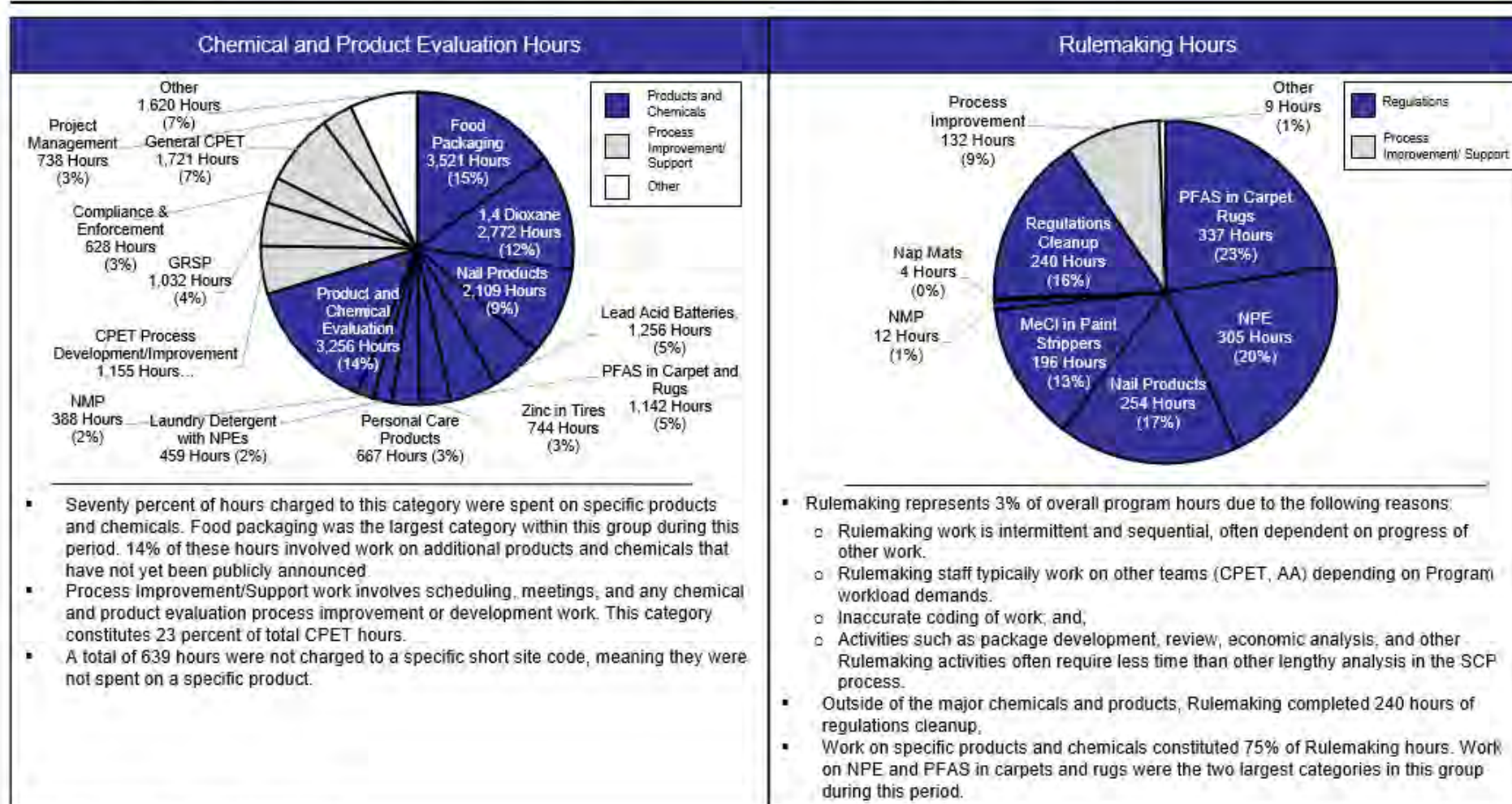


SCP Timeline as of August 2023



Being accountable...

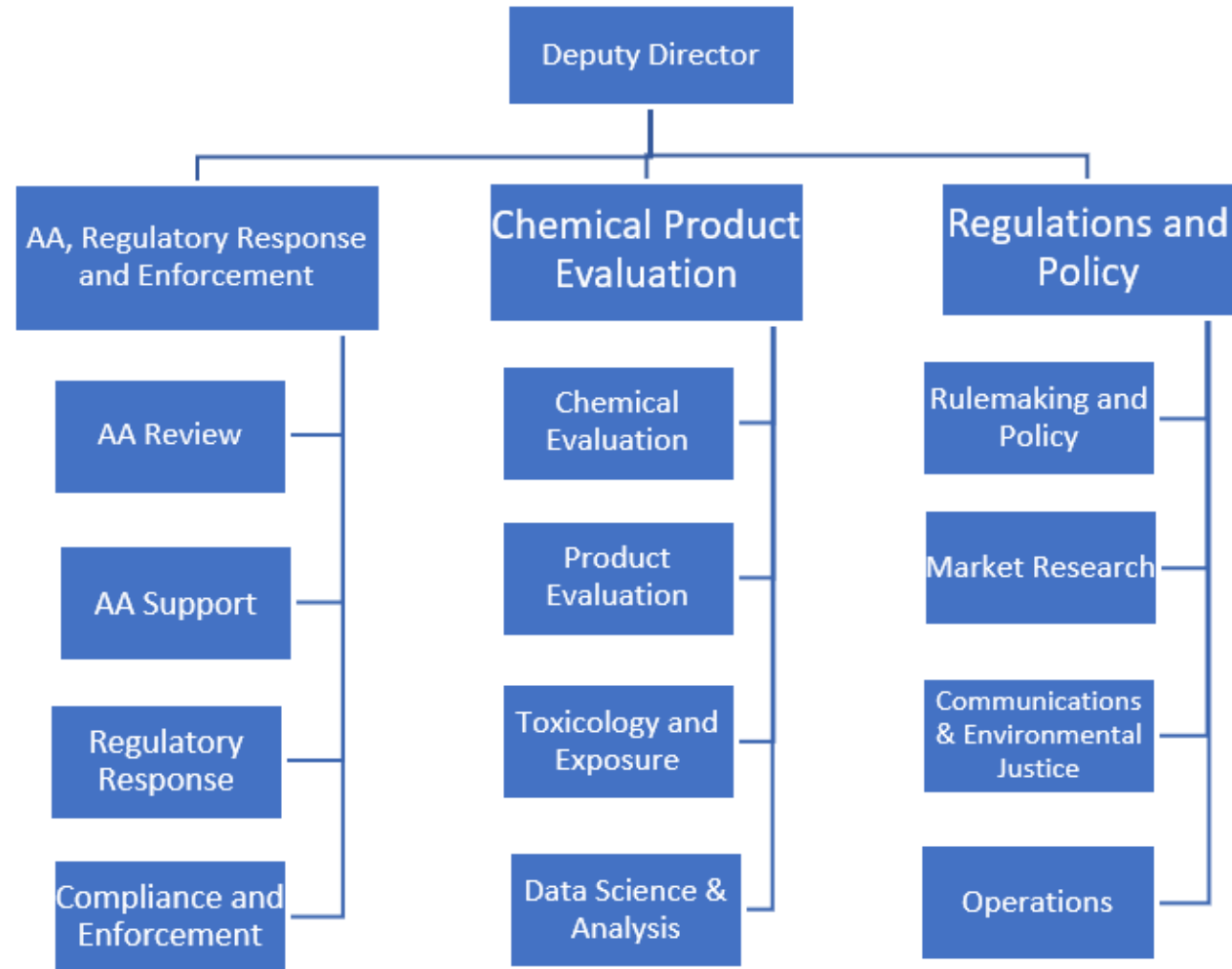
Scoping and research on specific products and chemicals represent the largest number of hours spent on CPET and Rulemaking functions (2018-19)



SOURCES: DTSC TEMPO Time Data



Building Capacity – New SCP Organization Chart



SCP Budget

- **FY 21/22: One branch with 3 units and 41 positions**
- **FY 22/23: 3 branches and 12 units, 78 positions**



Building a talented team, developing better tools!

150 Extra Engineers

An IBM Electronic Calculator speeds through thousands of intricate computations so quickly that on many complex problems it's like having 150 EXTRA Engineers.

No longer must valuable engineering personnel . . . now in critical shortage . . . spend priceless creative time at routine repetitive figuring.

Thousands of IBM Electronic Business Machines . . . vital to our nation's defense . . . are at work for science, industry, and the armed forces, in laboratories, factories, and offices, helping to meet urgent demands for greater production.

IBM INTERNATIONAL BUSINESS MACHINES



SAFER CONSUMER PRODUCT

OL

“The Safer Consumer Products Program’s shadow is much bigger than its shape.”

~Claudia Polsky, Director
UC Berkeley Environmental Law

Clinic



© iStock.com / cranach

Changing Paradigms: Risk vs. Alternatives Assessment

Risk Assessment

- ✓ What is an acceptable level of harm? (e.g., # of cancers/1000 people)
- ✓ Does this activity or product fall within that acceptable level?
- ✓ Activities considered in isolation

Alternatives Assessment

- ✓ Is this potentially hazardous activity/ product necessary?
- ✓ How little damage is possible?
- ✓ What other options are available?
- ✓ Multiple activities compared

Pollution Prevention.....Sustainability.....Circularity???

Practical

Meaningful

Legally Defensible

Build Capacity

Execute

Lead





SCP Rocks!

Scientific rigor

Collaboration

Perseverance

Respect

Optimism

Creativity

Knowledge

Service

Thank You!!!

Questions to Panel (Part I – Looking Back)

1. Specific accomplishments or success stories from the SCP program's first decade?
2. Key areas or initiatives with promising results?
3. Significant lessons learned for future strategies?
4. Effective and ineffective strategies/tactics and reasons?





Lunch Break

Meeting Resumes at 1:00 pm



Department of Toxic Substances Control



CalEPA

Questions to Panel (Part II – Looking Forward)

5. Key areas/initiatives to prioritize for strengthening SCP's impact in the coming years?
6. Enhancing scientific methodologies to assess/address adverse impacts of hazardous chemicals?
7. Research/data gaps on long-term effects of hazardous chemicals and collaboration with the scientific community?
8. Expanding outreach and education efforts beyond product manufacturers?
9. Ensuring adaptability and responsiveness of SCP's regulatory framework to evolving knowledge?



Questions to Panel (Part II – Looking Forward)

10. Approaches to address emerging contaminants and new classes of hazardous chemicals?
11. Changes to statutory authority/regulatory framework for promoting safer chemicals in products?
12. Internal process changes to improve throughput?
13. Prioritizing research/policy topics for impactful publications?





GRSP Topic 2: 2024-26 Priority Product Work Plan



Department of Toxic Substances Control



CalEPA



SCP's Draft 2024-2026 Priority Product Workplan

December 13, 2023

Tiglath Moradkhan, M.S., Environmental Scientist
André Algazi, Branch Manager, Chemical and Product
Evaluation Branch



Department of Toxic Substances Control



CalEPA

What does the Work Plan do?

- Covers a three-year period
- Describes the product categories SCP will evaluate
- Describes ongoing work carried over from the previous Work Plan
- Gives general explanation of why categories were selected



What the Work Plan does not do?

- Identify new Priority Products
- Lay out a comprehensive schedule for evaluating products
- Create any new legal obligations for stakeholders



Our Approach

- Internal recommendations
- Stakeholder engagement
 - Public comments
 - State agencies and BDOs
- Green Ribbon Science Panel (GRSP)
- Continuity with previous Work Plan



Priorities and Considerations For Implementation

The potential for adverse impacts on the health of **children and workers**



The potential for the product to release Candidate Chemicals to **indoor air and dust**



Priorities and Considerations For Implementation



The extent to which certain Candidate Chemicals in certain products may adversely and disproportionately impact **vulnerable communities**

The potential for consumer products to release **microplastics**



Priorities and Considerations For Implementation

The extent to which listing a product as a Priority Product would **leverage the work** of CalEPA and other state agencies



Adobe Stock | #191775640



Environmental Justice Initiative

- Harms posed by toxic chemicals in consumer products have greater impacts on vulnerable communities
- Uplift the concerns of these communities that are seeking environmental justice
- Begin to engage and collaborate with these individuals and groups to further our work



2021-2023 PPWP Categories



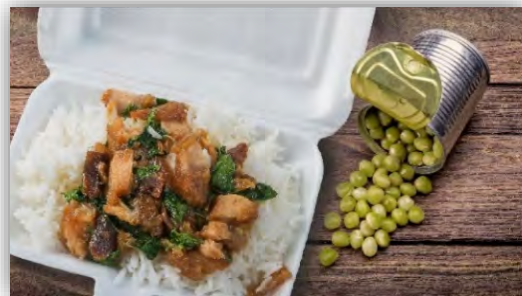
**Beauty, Personal Care,
and Hygiene Products**



**Building Products & Materials
Used in Construction and
Renovation**



Motor Vehicle Tires



Food Packaging



Cleaning Products



Children's Products



New Strategy for 2024-2026 PPWP

- **Product Categories Currently Under Evaluation**
 - Categories currently researching

- **Product Categories Intended For Evaluation**
 - Stakeholder transparency and discussion
 - May perform preliminary screening research in the next 3 years



Product Categories Currently Under Evaluation



**Beauty, Personal Care,
and Hygiene Products**



**Building Products & Materials
Used in Construction and
Renovation**



Cleaning Products



Children's Products



Product Categories Currently Under Evaluation – New Categories



Paints



**Products that Contain or
Generate Microplastics**



Product Categories Intended For Evaluation

Food Contact Articles

- *formerly Food Packaging and expanded in scope*
- *definition: intended to be used with food or that comes into contact with food*
 - *Examples: food packaging, pots, pans*



Product Categories Intended For Evaluation



Motor Vehicle Parts, Accessories, Maintenance, and Repair Materials

- *formerly Motor Vehicles Tires and expanded in scope*
- *definition: include any component of, or for, a motor vehicle, in addition to its interior accessories and materials*



Product Categories Intended For Evaluation

Disposable Face Coverings

- *new category*
- *definition: products designed for single use to protect the wearer, or others, by limiting spread of airborne pathogens and/or protect the wearer from particulate matter*



Product Categories Intended for Evaluation



Electronics

- *new category*
- *definition: includes computer and peripheral equipment, communications equipment, audio and video equipment, and semiconductors*



Product Categories Intended for Evaluation

Products Used or Produced by Metal Plating and Finishing Facilities

- *new category*
- *definition: manufacturing techniques used to apply an exterior coating to metal to improve an object's surface properties*



Product Categories Intended for Evaluation



Pet Care Products

- *new category*
- *definition: maintain the health and well-being of household animals*



Product Categories Intended for Evaluation

Sporting and Athletic Equipment

- *new category*
- *definition: used by athletes, recreational indoor users, and wildlife sportspeople (e.g., those engaged in fishing, hunting, camping, or hiking)*



Senate Bill 502 and the Priority Product Work Plan

- Senator Ben Allen
- Statutes 2022, Chapter 701
- Three main elements:
 1. Authority for DTSC to go directly to regulatory response without the alternatives analysis step
 2. Enforceable information call-in authority
 3. Additional information requirements for the Priority Product Work Plan



1. Direct Path From Priority Product to Regulatory Response – without AA

- Allows DTSC to “rely on all or part of one or more applicable publicly available studies or evaluations of alternatives ... [and] proceed directly to a regulatory response.”*
- “Studies or evaluations” must meet our regulatory criteria for “reliable information”**
- Rulemaking still required to list the Priority Product

*Subsection (d) of section 25253 of Health and Safety Code

** California Code of Regulations, title 22, 69501.1(a)(57)



2. Enforceable information request to product manufacturers

- Can be on chemicals, product use, and sales and can cover any category in a past, current, or planned work plan
- If a product manufacturer can't get the information from suppliers, DTSC can request it from them directly
- Default response time: 30 days, which DTSC can extend to 120 days or 180 days
- Civil or administrative penalties up to \$50K/day/violation

* Section 25253.7 of the Health and Safety Code



3. Additional information in Priority Product Work Plan

- Information on potential Chemicals of Concern in each product category/subcategory
- Additional ingredient information needed to evaluate safety of consumer products
 - How and when DTSC plans to collect this information
- Timelines for to list Priority Products, complete Alternatives Analyses, and finalizing regulatory response for ≥ 5 categories or subcategories

* Section 25253.9 of the Health and Safety Code



Thank you!





15 min Meeting Break

Meeting Resumes at 3:00 pm



Department of Toxic Substances Control



CalEPA

Questions to Panel (Priority Product Work Plan)

1. Suggestions for adding, removing, or modifying any product categories?
2. Clarity and improvement of definitions and rationales for product categories?
3. Are there any specific products in any of these categories, especially for the Paints or Microplastic categories, that SCP should prioritize in its evaluation?
4. Thoughts on the new "Product Categories Intended for Evaluation" section introduced in the Work Plan?
5. This Work Plan highlights environmental justice as an SCP policy priority.
 - Suggestions on ways to effectively prioritize consumer products that may have a disproportionate impact on EJ communities?
 - Suggestions for engaging and forming partnerships with EJ communities as we evaluate these products?



Questions to Panel (Continued)

6. New authority to conduct the information call-ins:
 - Suggestions on the product categories and data types to conduct information call-ins?
 - Specific Industries or sectors for future information call-ins?

7. Are there existing alternatives assessments or other publicly available information that the SCP Program would support proceeding directly to regulatory response?





Green Ribbon Science Panel Meeting

End of Day 1 Meeting Summary



Department of Toxic Substances Control



CalEPA

Further Information

- Safer Consumer Products [Regulations](#)
- SCP E-mail List ([E-List](#)):
 - Upcoming regulations, events, workshops
- Further questions? Email us at SaferConsumerProducts@dtsc.ca.gov

Safer Consumer Products [Website](#)

Thank you!

