

Webinar on Summary of Findings on DTSC's Information Call-in on Nail Products

May 3, 2023

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The meeting will begin shortly.

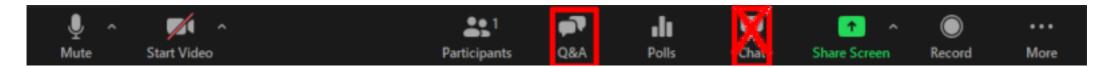
Today's meeting is being recorded.





Webinar Instructions

- You are in a listen and view only role
- If you have a question or comment



- Use Q&A feature (bottom of the screen)
- Chat function is disabled
- Email: <u>SaferConsumerProducts@dtsc.ca.gov</u>
- We will respond during Q&A session



Agenda

- Opening Remarks
- Summary of Findings on DTSC's
 Information Call-in on Nail Products
- Questions and Answers
- Closing Remarks





Summary of Findings on DTSC's Information Call-in on Nail Products

Dicle Yardimci, Ph.D.

Senior Hazardous Substances Engineer May 3, 2023





Agenda

- SCP Regulatory Framework
- DTSC's Nail Product Efforts
- DTSC's Information Call-in Request
- Summary of Findings on Information Call-in
- Questions and Answers



Safer Consumer Products (SCP) Regulatory Framework

Candidate Chemical List Chemicals listed as **of concern** by Authoritative Bodies

Priority Products

Product-Chemical combinations that may cause harm

Alternatives Analysis

Manufacturer evaluation of safer alternatives

Regulatory Response Wide range of possible actions to protect public health or the environment

SCP website: https://dtsc.ca.gov/scp/



Background

- Annual nail product sales exceed \$1 billion in U.S.
- Nail salon workers are exposed to potentially harmful chemicals
 - Poor ventilation in salons
 - Often work more than 8 hours/day and 40 hours/week
 - Often immigrants with low socioeconomic status
 - Often women of childbearing age



DTSC's Nail Product Efforts

- Tested nail products
 - 2012 DTSC tested limited number of nail products
 - 2020 2021 Analytical laboratory study
- Evaluated chemicals in nail products (2016 2021)
- Proposed Priority Products
 - 2019 2023 Nail products containing toluene proposed and adopted as a Priority Product
 - 2020 Nail products containing methyl methacrylate proposed as a Priority Product
 - Nail products containing triphenyl phosphate



DTSC's Nail Product Efforts (Continued)

- Published <u>Healthy Nail Salon Recognition Program Guidelines</u> (2018)
- Held public workshops
 - 2017 <u>Public workshop on chemicals in nail products</u>
 - 2022 <u>Public workshop on DTSC's evaluation of chemicals in nail products</u>
- Conducted <u>information call-in</u> request (2020 2021)



Necessity of Requesting Information

- Data gaps
- Information not readily available
- Lack of transparency on full ingredient list of nail products



Information Call-in

California Code of Regulations, title 22, section 69501.4(b) authorizes DTSC to request information that it determines necessary to implement the regulations from product or chemical manufacturers, importers, assemblers, or retailers via an information call-in



Response Status List (RSL)

- Response Status List (RSL) is a list of responsible information call-in stakeholders
- RSL includes company name and its response status
- There are three possible response statuses for RSL
 - Response with information provided
 - Response with information unavailable
 - No response

California Code of Regulations, Title 22, section 69501.4(c)



Information Call-in Preparation



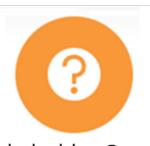
Trade Secret Confidential Business Information (CBI)







Stakeholder List



Stakeholder Questions









DTSC's Information Call-in on Nail Products

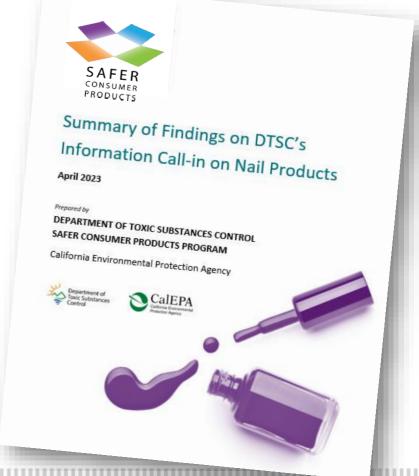
- Initiated on September 18, 2020 and closed on May 30, 2021
- Information call-in goals
 - Fill in data gaps
 - Reduce research time
 - Identify potential Priority Products
 - Identify and analyze potential alternatives

DTSC's Information Call-in on Nail Products



Summary of Findings on DTSC's Information Call-in on Nail Products Report

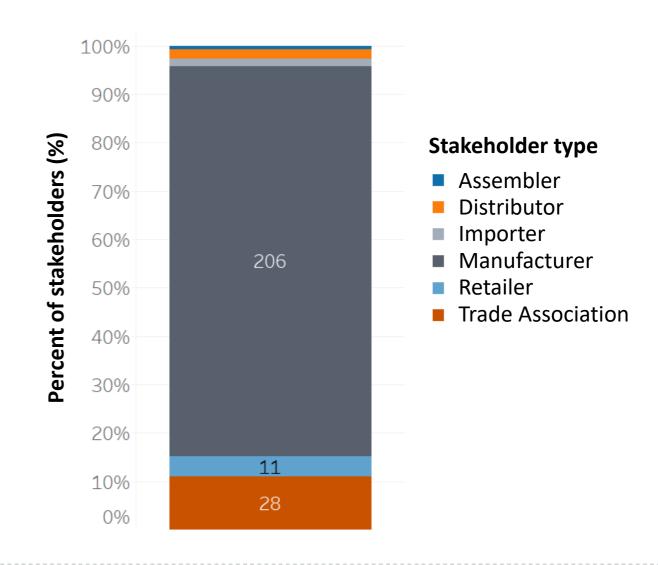
Nail Products Information
Call-in Report





Stakeholder Distribution

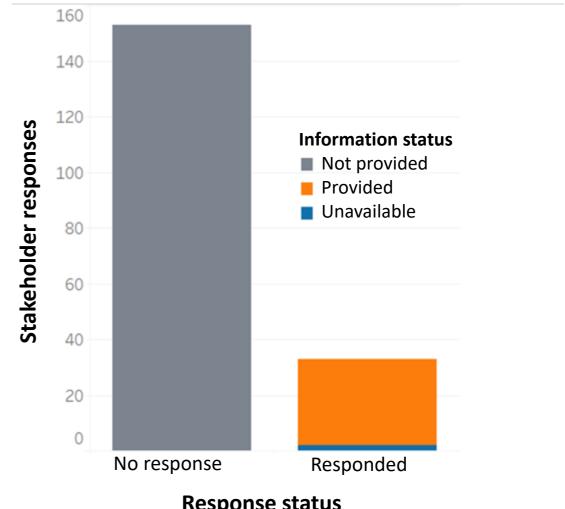
- Contacted 256 nail product stakeholders
- 28 trade associations are excluded from RSL
- 42 additional stakeholders are excluded from RSL
- 186 stakeholders are published on RSL





Response Rate

- 186 stakeholders are published on RSL
- 33 (17.7%) stakeholders responded
- 31 stakeholders provided information
- **•** 153 (82.3%) stakeholders did not respond



Response status

Response Status List (RSL) for Information Call-in on Nail Products



Questions to Stakeholders

- Nail product formulations
 - Intentionally added ingredients
 - Residuals and contaminants
 - Concentration ranges
 - Functional use information

- Nail products marketed with "green" or "safer" claims
 - Safer for children and pregnant women
 - Distinction from products without such claims
 - Safer alternatives



Nail Product Categories

- Liquid-powder system artificial nail products
- UV gel nail products
- Solvent-based nail coatings
- Other nail products (products not included in categories listed above)



Concentration Range Guidance

Concentration range

More than 0% but less than 0.1%

Equal to or more than **0.1%** but less than **0.5%**

Equal to or more than 0.5% but less than %1

Equal to or more than 1% but less than 5%

Equal to or more than 5% but less than 10%

Equal to or more than 10% but less than 25%

Equal to or more than 25% but less than 50%

Equal to or more than 50% but less than 75%

Equal to or more than **75**% up to **100**%



Caveats of Information Call-in Data

- Due to 17.7% response rate, data set may not represent the entire nail product market in California
- Data formatting and cleaning
 - Non-uniform reporting, missing data, or duplicate entries
- Chemicals reported with multiple concentration ranges
 - DTSC used the upper concentration range



Focus of Information Call-in Report

- Reported information in an aggregated form
- Reported chemicals that are on <u>DTSC's Candidate Chemical (CC) List</u>
 - 97 (11%) of reported chemicals with CAS RNs were identified as Candidate Chemicals (CCs)
- Chemicals that are not on the CC List are outside the scope
- Chemicals that are reported as part of a chemical class are outside the scope



Reported Candidate Chemicals (CCs)

97 CCs reported with CAS RNs:

- 22 CCs previously evaluated by DTSC
- 75 CCs previously unknown
 - 44 CCs are on hazard trait-based authoritative lists with human health hazard traits
 - 31 CCs are on exposure-based authoritative lists with potential exposure concern or have environmental hazard traits but do not have human health hazard traits



Candidate Chemicals (CCs) with Human Health Hazard Traits

- 2-(4-tert-Butylbenzyl)propionaldehyde
- 2-Butoxyethanol
- Acetaldehyde
- Acetone
- Acrylic acid
- Alpha-methyl styrene
- Aluminum
- Arsenic
- Benzene
- Benzene-1,2:4,5-tetracarboxylic dianhydride
- Benzo[a]pyrene
- Benzophenone
- Benzophenone-3
- Benzyl violet 4B
- Butylated hydroxyanisole (BHA)

- Butylbenzyl phthalate (BBP)
- Butylparaben
- Cadmium
- Carbon black
- Chromium
- Cobalt
- Coconut oil diethanolamine condensate
- Copper
- Cumene
- Dibenzo[a,h]anthracene
- Dibutyl phthalate (DBP)
- Dibutyltin dilaurat
- Diisobutyl phthalate (DIBP)
- Distillates (petroleum), hydrotreated middle
- Ethyl acetate
- Formaldehyde
- Ginkgo biloba extract



Candidate Chemicals (CCs) with Human Health Hazard Traits (continued)

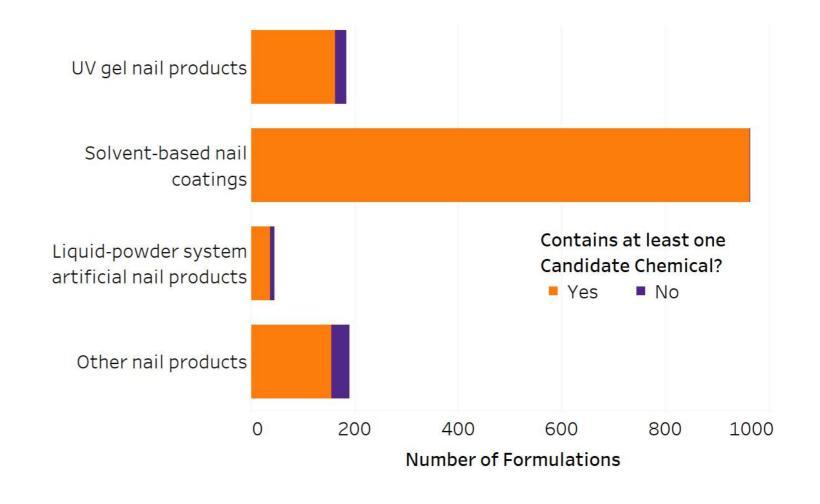
- Isobutane
- Isopropyl alcohol (isopropanol or IPA)
- Lead
- Mercury
- Methanol
- Methyl ethyl ketone (MEK)
- Methyl isobutyl ketone
- Methyl methacrylate (MMA)
- N,N-dimethyl-p-toluidine (DMPT)
- Naphtha (petroleum), light alkylate
- n-Butane
- n-Butanol
- n-Hexane
- Nickel
- Nickel carbonyl
- Petrolatum
- Petrolatum (petroleum), alumina-treated

- Phenol
- Phosphoric acid
- Propionaldehyde
- Propylene oxide
- Propyleneglycol monomethyl ether
- Selenium
- Silica
- Sodium hydroxide
- Sodium N-(hydroxymethyl)glycinate
- Styrene
- Tert-butyl alcohol (TBA)
- Titanium dioxide
- Toluene
- Trimethylolpropane triacrylate
- Triphenyl phosphate (TPhP)
- Vanadium
- Xylenes



Reported Formulations by Product Category

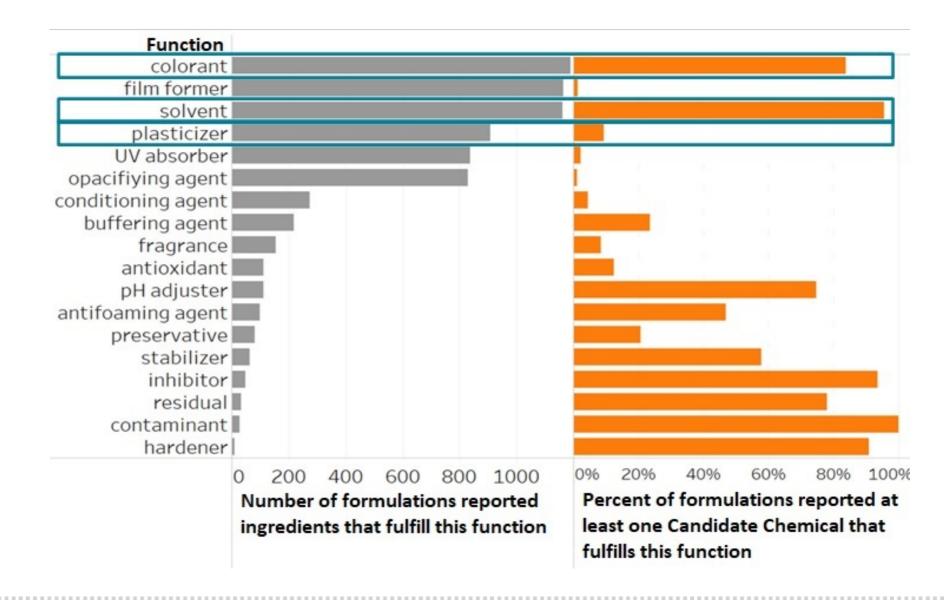
- 1,384 formulations reported
- 95% of reported formulations contained at least one CC





Prevalently Reported Functions of Chemicals

- Colorants
- Film formers
- Solvents
- Plasticizers
- UV absorbers
- Opacifying agents





Solvents

- 95.7% of solvent-containing formulations reported at least one CC as a solvent
- 18 CCs reported as solvents
- Some formulations reported more than one CC as a solvent
- Some formulations reported chemicals that are not on the CC List as solvents



Prevalently Reported CCs as Solvents

Candidate Chemical name	CAS RN	Concentration range
Ethyl acetate	141-78-6	More than zero up to 100%
Isopropanol (IPA)	67-63-0	More than zero up to 100%



Colorants

- 83.9% of colorant-containing formulations reported at least one CC as a colorant
- 16 CCs reported as colorants
- Some formulations reported more than one CC as a colorant



Prevalently Reported CCs as Colorants

Candidate Chemical name	CAS RN	Concentration range
Titopium diavida	12462 67 7	Marathan Toro Lin to FOO/
Titanium dioxide	13463-67-7	More than zero up to 50%
Carbon black	1333-86-4	More than zero up to 50%
A lunging upo	7420 00 5	Navathan Tana un ta FOO/
Aluminum	7429-90-5	More than zero up to 50%



Plasticizers

- 9.3% of plasticizer-containing formulations reported at least one CC as a plasticizer
- 4 CCs reported as plasticizers
- Some formulations reported more than one CC as a plasticizer
- Some formulations reported chemicals that are *not* on the CC List as plasticizers



Prevalently Reported CCs as Plasticizers

Candidate Chemical name	CAS RN	Concentration range
Triphenyl phosphate (TPhP) (prevalently reported)	115-86-6	More than zero up to 10%
Diethyl hexyl adipate	103-23-1	More than 0.5% up to 5%
n-Butanol	71-36-3	More than 0.5% up to 1%
Tricresyl phosphate	1330-78-5	More than 1% up to 5%



Contaminants and Residuals

- 5 of 31 stakeholders reported contaminants or residuals
- Stakeholders did not report the distinctions between contaminant CCs versus residual CCs
- 49 CCs reported as contaminants or residuals



Prevalently Reported CCs as Contaminants or Residuals

Candidate Chemical name	CAS RN	Concentration range
Dibutyl phthalate (DBP)	84-74-2	More than zero up to 0.1%
Formaldehyde	50-00-0	More than zero up to 0.1%
Toluene	108-88-3	More than zero up to 0.1%
Xylenes	1330-20-7	More than zero up to 0.1%



Nail Products Marketed as "Green" or "Safer"

- 5 of 31 stakeholders responded to questions on nail products marketed as "green" or "safer"
- Products with "green" or "safer" claims were similar to products without such claims
- Some nail products marketed with "green" or "safer" claims may contain CCs
- There may be no basis to describe products as "safer" based on marketing claims



Summary of Key Findings

- 95% of reported formulations contained at least one Candidate Chemical (CC)
- 97 (11%) of reported chemicals with CAS RNs were identified as CCs
 - 22 CCs previously evaluated by DTSC
 - 75 CCs previously unknown
- Solvents, colorants, and plasticizers were prevalent functions with highest percentage of instances where the function was fulfilled by a CC



Summary of Key Findings (Continued)

- Some functions fulfilled without use of CCs and there may be safer alternatives to CCs
- Some nail products marketed with "green" or "safer" claims may contain CCs
- There may be no basis to describe products as "safer" based on marketing claims



Significance of Findings

- Inform the public on potentially harmful chemicals
- New information on the use of CCs in nail products
- Identify CCs for potential future evaluation
- Informative for seeking safer alternatives



Lessons Learned

- Collaborating with trade associations
 - Identifying stakeholders
 - Defining nail products
- Addressing concerns on trade secret and CBI
 - CalSAFER information call-in module
 - Allowing stakeholders to report concentration ranges

- Limited enforcement authority (17.7% response rate)
- Non-uniform reporting
- Data cleaning



Acknowledgements

- Abigail Noble
- Tiglath Moradkhan
- Brian Chung
- Heather Lee
- Kyle Harris
- Michelle Romero-Fishback

- Armeen Etemad
- Dennis Guo
- David Grealish
- Steve Bunnell
- OEIM Staff
- SCP Management



Contact Information

- Technical questions: <u>Dicle.Yardimci@dtsc.ca.gov</u>
- General questions: <u>SaferConsumerProducts@dtsc.ca.gov</u>
- Meeting requests: <u>Heather.Kessler@dtsc.ca.gov</u>
- Join our E-list to get updates: <u>bit.ly/scpupdates</u>



Questions & Answers





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- From the phone, press *9 to raise your hand and
 *6 to unmute
- Please say your name and affiliation prior asking a question
- Please ask only **one (1) question** at a time

