



# **2023 Consumer Products Survey**

**Response and Updates to the October 29 Webinar**

December 5, 2024

# Outline



Summary of Comments  
Received and Responses



Data Summaries



Upcoming Toxicity Ranking  
Methodology Webinar

# Summary of Comments Received on the 2023 Survey Categories



Anomaly of Year  
2020 Sales



Deadline for Survey  
Submissions



Programmatic  
VOC Equivalency



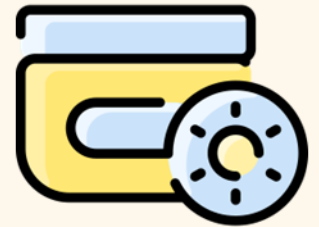
Fate & Transport



Fragrance  
Speciation



Category  
Definitions



Over-the-Counter  
(OTC) Drugs

# Anomaly of Year 2020 Sales

Reporting Year 2020 Sales



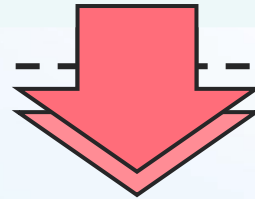
The **COVID Pandemic** impacted Consumer Product Categories in **Consumer Behavior** and **Supply Chain**

## PROS

- Supports a more **robust** assessment of category **baseline sales activity**

## CONS

- Requires **significant resources** from Survey Respondents and CARB staff
- Justifies **extension** of additional Survey response time



Reporting of **Sales** for the three years

**2020    2021    2022**

is **no longer required**

Only Reporting of

**2023**

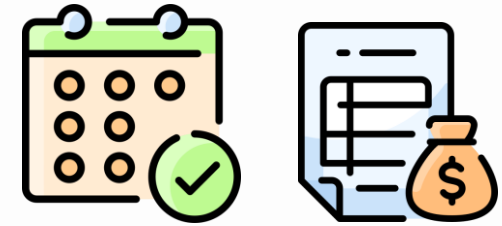
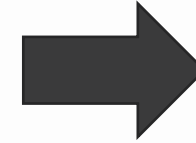
**Sales and Formulation** is required

# Deadline for Survey Submission

Reporting of Sales for  
the **three** years

**2020      2021      2022**

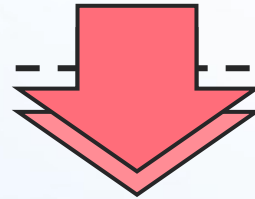
is **no longer required**



Significant **Savings** in  
Time and Resources



Inclusion of the next **three**  
categories in OFP Ranking Order:



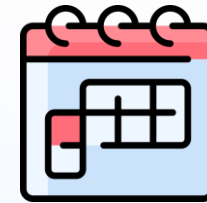
Anti-perspirant



Liquid Fabric  
Softener



Dual purpose Air  
Freshener/Disinfectant  
(aerosol)



Survey Deadline  
extended to  
**April 8, 2025**



# Programmatic VOC Equivalency

Consumer Product  
Program ratio between  
VOC and OFP

**Total CP VOC**  
**Total CP OFP**

**0.351**

2015 CARB Consumer and Commercial Product Survey - Preliminary Draft Data For Public Review (Report Date: December 12, 2019)									
Category Code	Category Name	Product Data	Emissions Data (Fate and Transport Adjusted)						
		Sales (tpd)	VOC (tpd)	ROG (tpd)	TOG (tpd)	PWMIR (gO <sub>3</sub> /g)	Ozone Forming Potential (tpd)	2037 VOC (tpd)	2037 OFP (tpd)
70115	Tire or Wheel Cleaner (aerosol)	1.23	0.10	0.10	0.24	0.11	0.13	0.11	0.15
70116	Tire or Wheel Cleaner (nonaerosol)	4.72	0.04	0.07	0.18	0.04	0.19	0.04	0.22
70117	Undercoating (aerosol only)	0.51	0.19	0.19	0.27	0.83	0.43	0.21	0.48
70118	Wax/Polish/Sealant/Glaze (other than automotive)*	0.10	0.01	0.02	0.02	0.15	0.01	0.01	0.02
70199	Other vehicle and marine vessel detailing products	1.43	0.06	0.13	0.14	0.12	0.17	0.07	0.19
70203	Automotive Windshield Washer Fluid (Type "A" Areas)	3.73	0.81	0.81	0.81	0.15	0.54	0.90	0.61
70204	Automotive Windshield Washer Fluid (Non Type "A" Areas)	65.32	0.05	0.05	0.05	0.00	0.05	0.05	0.05
70205	Belt Dressing	0.16	0.08	0.08	0.15	0.82	0.13	0.09	0.15
70206	Body Repair Products (other than coatings)	6.17	1.16	1.17	1.17	0.33	2.06	1.30	2.29
70207	Brake Anti-Squeal Compound*	0.04	0.02	0.02	0.03	0.73	0.03	0.02	0.03
70208	Brake Cleaner	10.14	0.89	0.89	9.29	0.40	4.06	0.99	4.53
70209	Carburetor or Fuel-Injection Air Intake Cleaner	2.31	0.23	0.25	1.99	0.58	1.35	0.26	1.50
70210	Engine Degreaser (aerosol)	1.15	0.15	0.70	0.70	0.92	1.06	0.16	1.18
70211	Engine Degreaser (nonaerosol)*	0.32	0.04	0.04	0.04	0.54	0.17	0.04	0.19
70212	Engine Starting Fluid	0.49	0.05	0.05	0.05	0.17	0.08	0.05	0.09
70213	Home-Use Metal Parts Immersion Wash*	0.02	0.00	0.00	0.00	0.10	0.00	0.00	0.00
70214	Mold and Mildew Retardant*	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
70216	Tire Sealants and Inflator	2.95	0.30	0.38	0.83	0.37	1.09	0.34	1.22
70217	Windshield De-Icer*	0.17	0.09	0.10	0.10	0.65	0.11	0.10	0.12
70218	Windshield Washer Fluid Additive	4.22	1.14	1.14	1.14	0.19	0.81	1.27	0.90
70219	Windshield Water Repellent	0.25	0.18	0.18	0.22	1.03	0.26	0.20	0.29
70299	Other vehicle and marine vessel maintenance and repair products	2.14	0.19	0.20	0.21	0.14	0.30	0.21	0.33
<b>All Categories</b>			134.86	202.03	252.27	0.05	391.32	172.17	490.49

# Programmatic VOC Equivalency

2015 CARB Consumer and Commercial Product Survey - Preliminary Draft Data For Public Review (Report Date: December 12, 2019)										Total CP VOC Total CP OFF
Category Code	Category Name	Product Data	Emissions Data (Fate and Transport Adjusted)							2037 VOC Equivalent (tpd)
		Sales (tpd)	VOC (tpd)	ROG (tpd)	TOG (tpd)	PWMIR (gO <sub>3</sub> /g)	Ozone Forming Potential (tpd)	2037 VOC (tpd)	2037 OFF (tpd)	
70115	Tire or Wheel Cleaner (aerosol)	1.23	0.10	0.10	0.24	0.11	0.13	0.11	0.15	0.05
70116	Tire or Wheel Cleaner (nonaerosol)	4.72	0.04	0.07	0.18	0.04	0.19	0.04	0.22	0.08
70117	Undercoating (aerosol only)	0.51	0.19	0.19	0.27	0.83	0.43	0.21	0.48	0.17
70118	Wax/Polish/Sealant/Glaze (other than automotive)*	0.10	0.01	0.02	0.02	0.15	0.01	0.01	0.02	0.01
70199	Other vehicle and marine vessel detailing products	1.43	0.06	0.13	0.14	0.12	0.17	0.07	0.19	0.07
70203	Automotive Windshield Washer Fluid (Type "A" Areas)	3.73	0.81	0.81	0.81	0.15	0.54	0.90	0.61	0.21
70204	Automotive Windshield Washer Fluid (Non Type "A" Areas)	65.32	0.05	0.05	0.05	0.00	0.05	0.05	0.05	0.02
70205	Belt Dressing	0.16	0.08	0.08	0.15	0.82	0.13	0.09	0.15	0.05
70206	Body Repair Products (other than coatings)	6.17	1.16	1.17	1.17	0.33	2.06	1.30	2.29	0.81
70207	Brake Anti-Squeal Compound*	0.04	0.02	0.02	0.03	0.73	0.03	0.02	0.03	0.01
70208	Brake Cleaner	10.14	0.89	0.89	9.29	0.40	4.06	0.99	4.53	1.59
70209	Carburetor or Fuel-Injection Air Intake Cleaner	2.31	0.23	0.25	1.99	0.58	1.35	0.26	1.50	0.53
70210	Engine Degreaser (aerosol)	1.15	0.15	0.70	0.70	0.92	1.06	0.16	1.18	0.41
70211	Engine Degreaser (nonaerosol)*	0.32	0.04	0.04	0.04	0.54	0.17	0.04	0.19	0.07
70212	Engine Starting Fluid	0.49	0.05	0.05	0.05	0.17	0.08	0.05	0.09	0.03
70213	Home-Use Metal Parts Immersion Wash*	0.02	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
70214	Mold and Mildew Retardant*	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
70216	Tire Sealants and Inflator	2.95	0.30	0.38	0.83	0.37	1.09	0.34	1.22	0.43
70217	Windshield De-Icer*	0.17	0.09	0.10	0.10	0.65	0.11	0.10	0.12	0.04
70218	Windshield Washer Fluid Additive	4.22	1.14	1.14	1.14	0.19	0.81	1.27	0.90	0.32
70219	Windshield Water Repellent	0.25	0.18	0.18	0.22	1.03	0.26	0.20	0.29	0.10
70299	Other vehicle and marine vessel maintenance and repair products	2.14	0.19	0.20	0.21	0.14	0.30	0.21	0.33	0.12
All Categories			134.86	202.03	252.27	0.05	391.32	172.17	490.49	172.17

# Programmatic VOC Equivalency

Category  
VOC-equivalent  
emissions

= Category OFP \*

$$\frac{\text{Total CP VOC}}{\text{Total CP OFP}}$$

= 0.351

Results in a reranking of the significance of categories based on **each unique category's OFP**

Converts OFP to VOC-eq emissions so that **totals are equal**

Total VOC = Total VOC-eq

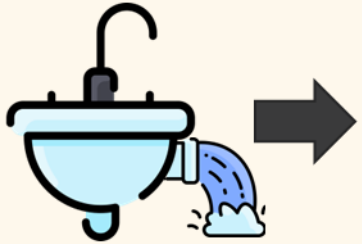


Technical Memorandum on VOC Equivalency posted on the [CARB Consumer & Commercial Products Surveys webpage](#)



# Fate & Transport

Fate & Transport adjustments **are included**



in the **2015 Data Summary** used to select the 2023 Survey Categories



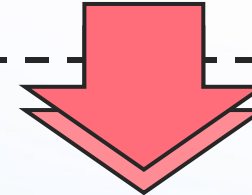
Based on scientific literature review



Discussed with **stakeholders**



Incorporated in the 2020 Consumer Product Emission Inventory Update

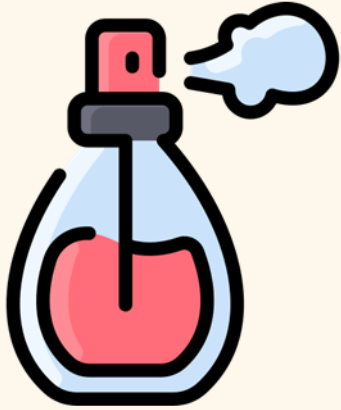


Will not revisit before launching the 2023 Survey

Changes will be considered if justified by new studies and research prior to updating the **2023 Survey Categories Emission Inventory**

# Fragrance Speciation and the 2023 Survey

Focused Fragrance  
Survey conducted during  
the last 3-year Survey



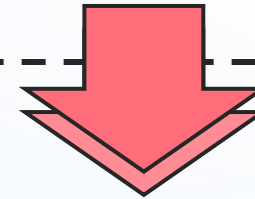
Discussed with  
Fragrance Formulators



Agreed on  
Fragrance Speciation



Incorporated in the  
2020 Consumer Product  
Emission Inventory Update



Fragrance Formulator  
Information collected during  
the 2023 Survey will be used  
to **update the CP Program  
Database**

# Definitions of the 2023 Survey Categories

Previously **Regulated**  
Categories

**Use:** Regulatory  
Definitions  
[Article 2, CARB](#)

Regulatory Definitions  
come into existence  
upon Regulation

Previously **Unregulated**  
Categories

**Use:** Survey Category  
Name

Do not have explicit  
Regulatory Definitions

# Over-the-Counter (OTC) Drugs

FDA's active pursuit of regulatory updates of OTC drug product categories **does not** negate CARB's survey pursuit



FDA OTC Drugs Regulatory Updates

Considerations



CARB Regulatory Strategy

CARB Survey



CARB **considers** regulatory and technical ramifications of **dual regulations** by FDA in our regulatory strategy evaluation

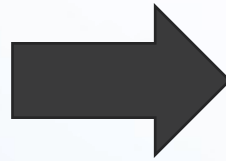


# Over-the-Counter (OTC) Drugs

Products that are **dually-regulated** as cosmetics and OTC  
Drugs still **need to be reported** in the survey



Anti-Dandruff  
Conditioners



Conditioner without  
Styling Claims



Body Cream/Lotion  
with **Sun Protection  
Factor (SPF)**



Hand and Body  
Conditioner, Cream,  
Lotion, and Moisturizer

# Data Summaries

to be released prior to finalizing results

Data Summary 1

Data Summary 2

Data Summary 3

Per Survey Category:

- Names of Companies
- Names of Products

Preliminary reports will be released for feedback, with final reports published after reviewing comments

# Data Summaries

to be released prior to finalizing results

Data Summary 1

Data Summary 2

Data Summary 3

## Per Survey Category:

- Number of Reporting Companies
- Number of Reported Products
- Sales (mass per time)
- Sales Weighted Average VOC Content (undiluted)
- Speciation: VOC, LVP, Exempt VOC, Water, Other
- Emissions: VOC, ROG, TOG
- Sales Weighted Average Reactivity
- Ozone Forming Potential

# Data Summaries

to be released prior to finalizing results

Data Summary 1

Data Summary 2

Data Summary 3



For **PCBTF** Survey Categories:

- Mass of PCBTF in Category
- # of Products containing PCBTF

PCBTF = Parachlorobenzotrifluoride



# All 37 Selected Categories for the Survey



SIP Commitment  
(17 categories)

Category Code	Category Name
20311	General Purpose Cleaner (nonaerosol)
30211	Anti-microbial Dry Hand Wash (Hand Sanitizer)
20903	Laundry Detergent
30404	Hand and Body Conditioner, Cream, Lotion, and Moisturizer
20104	Air Freshener, liquid/pump spray
30102	Deodorant
10115	Plastic Pipe Cement and Primer
20305	Disinfectant (aerosol)
30603	Dye, permanent
30602	Conditioner without styling claims
21405	Floor Wax Stripper
20326	Oven or Grill Cleaner (nonaerosol)
30411	Sunscreen (hair or body) (aerosol)
30207	Body Wash/Mousse/Gel/Soap/Foam/Scrub
20919	Liquid Fabric Softener
30101	Antiperspirant
20103	Dual Purpose Air Freshener/Disinfectant (aerosol)



US EPA Regulations  
(1 category)

Category Code	Category Name
60214	Paint Remover or Stripper



PCBTF Prohibition  
(19 categories)

Category Code	Category Name
60223	Thinner/Reducer/Retardant (Motor Vehicle Coating Systems)
60216	Paint Thinner (nonaerosol)
10210	Sealant or Caulking Compound -- Nonchemically Curing
60211	Lacquer Thinner
21303	Footwear or Leather Care Product (all other forms)
60213	Multi-purpose Solvent (nonaerosol)
21301	Footwear or Leather Care Product (aerosol)
60203	Clean Up Solvent
21018	Rust Preventative or Rust Control Lubricant (aerosol)
70117	Undercoating (aerosol only)
20504	Carpet and Upholstery Cleaner (nonaerosol - dilutable)
20312	General Purpose Degreaser (aerosol)
20321	Metal Polish/Cleanser (aerosol)
21003	Cutting or Tapping Oil (aerosol)
20313	General Purpose Degreaser (nonaerosol)
20513	Spot Remover (nonaerosol)
10209	Sealant or Caulking Compound -- Chemically Curing
21012	Multi-purpose Dry Lubricant
21014	Penetrant

**Only 2023 Sales  
and Speciation**



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# Upcoming Webinar

## Consumer Products Toxicity Ranking Methodology Webinar

January 2025



Join CARB as we delve into the methodology behind ranking consumer product categories based on their toxicity. This webinar will provide an in-depth explanation of the calculations used to determine toxicity scores and how they guided the selection of categories for the 2023 Consumer Products Survey. Additionally, we will discuss the program's next steps, including plans for prohibiting PCBTF.