Organic Gas Speciation Profiles for Consumer Products (2020 Update)

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1. Introduction

Consumer product is defined as a chemically formulated product used by household and institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. Consumer product also covers aerosol adhesive products, including aerosol adhesives used for consumer, industrial, and commercial uses [1].

California Air Resources Board (CARB) staff typically conduct consumer and commercial products surveys [2] as necessary to obtain California consumer products sales and formulation data. There are 146 consumer products (aerosol coatings excluded) emission inventory codes (EICs) (510-506-6##-0000) and 15 aerosol coatings EICs (510-500-90##-0000) currently in use in CARB emission inventory. Each EIC is assigned with a corresponding organic gas (OG) speciation profile to describe the composition of the OG emissions from that category. Among the existing 146 speciation profiles for consumer products, 106 profiles were generated during the last 2010 inventory update which was based on the 2001, 2003, and 2006 survey data, and the remaining 40 profiles were generated prior to 2010 using earlier survey data. The existing 15 aerosol coating profiles were developed based on the 1997 Aerosol Coatings Survey data [3].

From year 2013 to 2015, CARB conducted the most extensive consumer and commercial products survey. Unlike those category-specific surveys that CARB carried out previously, the three-year survey was structured to include all consumer and commercial product categories. In total, approximately 1400 companies reported nearly 1 million products and 8.45 million product ingredients. The survey provided a rich dataset of consumer products sales, emissions, chemical speciation, and other information for hundreds of specific consumer product categories [2]. Sales quantities along with formulation data reported in the survey were used to update the existing emission inventory and create profiles for the consumer product categories. This document focuses on the development of OG speciation profiles, including 173 new profiles for consumer products (aerosol coatings excluded) (510-506-6##-0000) using the three-year survey data and 15 new profiles for aerosol coatings (510-500-90##-0000) using the 2010 CARB Aerosol Coating and Aerosol Adhesive Products Survey data. These new profiles are proposed

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to be mapped to their associated categories to reflect the composition updates for various applicable calendar years.

2. Methodology

The 2013-2015 Consumer and Commercial Products Survey data provided the technical foundation for the update to emission inventory and speciation profiles. The steps taken to generate the OG speciation profiles are briefly summarized in this section.

Verification of product assignment to appropriate category

CARB staff verified that each survey product was assigned to the correct category, based on the reported product information including the submitted label, product name, formula name, formulation ingredients, and product form. The missing or incorrect assignments were corrected.

• Identification of missing product formulation

For each category, the missing or incomplete product formulation was corrected by CARB staff through communicating with reporting parties or assigning the product with a category weighted average formulation.

• Classification of product ingredients

CARB staff classified the product ingredients into three total organic gas (TOG) classes, i.e., VOC (volatile organic compound), LVP-VOC (low vapor pressure VOC), and exempt-VOC, per their definitions in section 94508 of the Consumer Products Regulation [1]. VOC and LVP-VOC represent the species of reactive organic gas (ROG) that evaporates most readily and relatively slow, respectively. The exempt VOC classification represents the TOG ingredients of negligible ozone reactivity that are excluded from the definition of VOC and ROG. In addition, some reported product ingredients were classified as "Grouped LVP" and "Inorganic". The "Grouped LVP" ingredients represent the LVP-VOC species not required to be reported individually for survey, and they are typically nonreactive (e.g. waxes, resins, and surfactants). "Inorganic" represents inorganic compounds in product formulations (e.g., pumice and ammonia).

• Aggregation of TOG ingredients

Under each category, the TOG ingredients, i.e., VOC, LVP-VOC, and exempt-VOC of survey products, were sorted by species name. Multiple entries of the same ingredient were replaced with a single entry of the ingredient and aggregated total mass. Certain ingredients were grouped and assigned a common name; petroleum solvent ingredients were renamed as "hydrocarbon solvent" with an appropriate BIN number as defined in Section 94701 in the

California Consumer Products Regulations [4]. Please note that "Grouped LVP" and "Inorganic" ingredients were excluded from the TOG list which was used to generate OG speciation profiles in the following steps.

• Application of fate and transport adjustment

CARB staff applied fate and transport adjustments to select ingredients in 63 categories according to one of the three scenarios: (a) open systems (i.e., hand dishwashing, shaving, shampooing, mouthwashing); (b) close systems (i.e., dishwasher, dryer, washing machine); and (c) combustion (i.e., fire log, wood fire starter). The emissions of such categories are reduced because a portion of the ingredients was assumed to go down the drain or get combusted. The reduction of emissions was adjusted by applying the fate and transport factors to the applicable categories. The details about fate and transport adjustment can be found on the Consumer Products Survey Webpage [2].

• Creation of OG speciation profile

For each category, the mass of individual TOG ingredient was aggregated after the applicable adjustment of fate and transport. Total TOG mass of the category was calculated by summing up the mass of all ingredients. The speciation profile for the category was then obtained by dividing the mass of each TOG ingredient by the total mass of TOG of the category. Each ingredient in the profiles needs to be mapped to its unique 5-digit chemical code (i.e. ARB-SAROAD). The assignment of the existing ARB-SAROAD codes to chemicals can be retrieved from the Pollutant table of CEIDARS (California Emission Inventory Database and Reporting System) database. A new 5-digit code was generated for each ingredient which did not have an existing ARB-SAROAD. There are total of 133 new ARB-SAROAD codes generated for the ingredients in this work, and the assignment is tabulated in Appendix 1. The details of the newly developed OG speciation profiles are summarized in Appendix 2.

3. Discussion

3.1. Profiles for New EIC Categories

As mentioned previously, this three-year survey is the largest consumer products survey ever conducted by CARB and many categories have never been surveyed in the past. There are in total 28 new EIC categories created for the inventory; however, only 27 new OG speciation profiles were generated. The formulation of Washing Soda category (510-506-6669-0000) consists of inorganic ingredients only, therefore no OG profile was developed for it.

3.2. Updates to Existing Consumer Products (Aerosol Coatings Excluded) Profiles

In addition to the 27 profiles made for new categories, there are 144 OG profiles generated based on the 2015 Survey data for the categories of consumer products (EIC-506-6##-0000). The profile for the category of aerosol adhesive including industrial (510-506-6508-0000) was made based on the 2010 CARB Survey for Aerosol Coating and Aerosol Adhesive Products. In total, the 145 newly created OG profiles will be used to replace the current profiles for their associated 145 consumer product EICs.

3.3. Updates to Aerosol Coatings Profiles

For aerosol coating and aerosol adhesive products, manufacturers were only required to report product sales for the calendar year 2013, and no product formulations were required to be reported during the 2013-2015 Consumer Product Survey. Therefore, no speciation data were processed for the aerosol coatings categories (510-500-90##-0000) based on the three-year survey. Instead, the 15 new aerosol coatings OG speciation profiles were developed by utilizing sales and formulation data from the 2010 CARB Survey for Aerosol Coating and Aerosol Adhesive Products.

3.4. Broader Application of Fate and Transport Adjustments

In addition to more categories covered, a broader application of fate and transport adjustment was applied to the inventory development based on the three-year survey. A total of 63 categories were adjusted to reduce their emissions during this update, compared to only 5 applicable categories for the 2010 Update. Also, a broader range of ingredient classifications were employed in the new fate and transport adjustment. The current update reflects the adjustments to reported VOCs, LVP-VOCs, and Fragrance; while the 2010 Update did not include any adjustment to Fragrance or LVP-VOC ingredients.

3.5. Refinement of Fragrance Speciation

"Fragrance" was included in the list of product formulation ingredients that were required to be submitted in response to the 2013-2015 Survey. The report found that fragrance represents over 7% of TOG, and it is the second most abundant ingredient by mass. Further, CARB staff identified compounds commonly used to formulate fragrance mixtures, along with their physical properties, reactivity, and relative weight fractions. For speciation purposes, CARB staff defined the following three fragrance profiles: "Fragrance A" (100% terpene) for the categories of solvent and cleaning/degreasing; "Fragrance B" (25% terpene and 75% dipropylene glycol) for most fragrance containing categories; and "Fragrance AC" (100% terpinolene) for categories of aerosol coatings. There are 22 speciation profiles containing "Fragrance A" only, 112 speciation profiles incorporating "Fragrance B" only, 6 speciation profiles containing both "Fragrance A" and "Fragrance B", and 6 speciation profiles consisting of "Fragrance AC".

3.6. Effective Year for Each Speciation Profile

The assignment of a speciation profile to its associate category applies to certain effective years. For consumer products, the effective year is defined by identifying the most recent prior survey year and any applicable effective regulatory data for each EIC. The mapping of the new profiles to the EICs with effective years is tabulated in Appendix 3.

4. Impacts of Speciation Profile Updates on Emission Inventory

A total of 187 speciation profiles were developed for the current consumer product inventory update, including 145 updates and 27 new additions for the consumer products (aerosol coatings excluded) profiles, and 15 updates for aerosol coatings categories. Implementation of the new profiles for the related categories will affect the estimation of their emissions of ROG, toxic species, and species with high Global Warming Potential (GWP) values. The impacts on consumer products (510-506-6###-0000) and aerosol coatings (510-500-90##-0000) are discussed separately in this section. The ozone forming potential (OFP) contributed by these categories will also be affected by the profile update.

4.1.Impacts of Profile Updates on Consumer Products (510-506-6###-0000)

Using the emissions of year 2015 as an example, the statewide annual average TOG emissions for consumer products (aerosol coatings excluded) categories (510-506-6##-0000) are 281.9 tons/day based on CEPAM: California 2019 Ozone SIP Baseline Emission Projection Planning Inventory (version 1.01) [5]. It is about 5.3% of the statewide grand total non-natural TOG emissions. With the new profiles, the estimated ROG emissions of these categories are 225.6 tons/day, which is just 0.5 tons/day more than the ROG emissions calculated by using the current profiles for year 2015 (Table 1). The new total ROG emissions include the emissions from the 28 new EIC categories; while the ROG emissions evaluated with the current profiles doesn't. If the new profiles are applied to their associated EICs, including the 28 new ones, the calculated OFP will be about 11.8% greater than the OFP estimation using the current profiles for year 2015 (Table 1).

The impacts of the profile update for toxic compounds and high GWP compounds are also evaluated for year 2015 (Table 1). There are seven toxic species selected for the comparison: formaldehyde, dichloromethane, perchloroethylene, trichloroethylene, n-hexane, n-propyl bromine, and t-butyl acetate. The use of new profiles will result in less emissions of four of the species: formaldehyde (99.6%), perchloroethylene (43.1%), trichloroethylene (48.0%), and n-hexane (76.1%). The profile update will cause an increase of 38.1% in the emission of n-propyl bromide and an over 200 times increase in the emission of t-butyl acetate. Although the relative change for t-butyl acetate is dramatic, its emission (9.6e-4) is insignificant. The impact of profile update on the emission of dichloromethane is negligible. The two high GWP compounds of interest are HFC-152a and HFC-134a. The use of new profiles will cause an increase of emissions for both species as shown in Table 1.

Table 1. Impacts on Consumer Products Categories (510-506-6##-0000) Using Updated Profiles

Statewide Annual Average Emissions	Current Profiles (tons/day)	Updated Profiles (tons/day)	Emission Change (tons/day)	Percentage of Change
ROG	225.1	225.6	+0.5	+0.2%
OFP (tons O ₃)	376.8	421.1	44.3	+11.8%
formaldehyde (toxic species)	5.5e-1	2.1e-3	-5.5e-1	-99.6%
dichloromethane (toxic species)	2.7	2.7	0	0%
perchloroethylene (toxic species)	5.1e-1	2.9e-1	-2.2e-1	-43.1%
trichloroethylene (toxic species)	2.5e-1	1.3e-1	-1.2e-1	-48.0%
n-hexane (toxic species)	4.6e-1	1.1e-1	-3.5e-1	-76.1%
n-propyl bromide (toxic species)	2.1e-2	2.9e-2	+8.0e-3	+38.1%
t-butyl acetate (toxic species)	4.6e-6	9.6e-4	+9.6e-4	+20769.6%
HFC-152a (high GWP species)	4.9	6.7	+1.8	+36.7%
HFC-134a (high GWP species)	1.1	2.9	+1.8	+163.6%

4.2.Impacts of Profile Updates on Aerosol Coatings (510-500-90##-0000)

The emissions of year 2015 was also chosen as an example to evaluate the impacts of profile update on ROG, OFP, toxic and GWP species for aerosol coatings (510-500-90##-0000). Based on CEPAM: California 2019 Ozone SIP Baseline Emission Projection Planning Inventory (version 1.01) [5], the 2015 statewide annual average TOG emissions of aerosol coating categories are 28.3 tons/day, about 0.5% of the statewide grand total non-natural TOG emissions. Using the new profiles, the estimated ROG emissions will be 20.6 tons/day, which is just 1.5% greater than the ROG emissions calculated based on the current profiles (Table 2). However, the OFP value estimated with the new profiles will be about 20.5% less than the one estimated with the current profiles based on the same 2015 TOG emissions (Table 2).

Table 2 also shows the changes on emissions of selected toxics and high GWP compounds due to the profile update. Seven toxic species of interest include formaldehyde, dichloromethane, perchloroethylene, trichloroethylene, n-hexane, n-propyl bromine, and t-butyl acetate. However, three of the species, including formaldehyde, perchloroethylene, and trichloroethylene, are not found in any of the current and new aerosol coatings profiles. The new 15 profiles only consist of n-hexane, n-propyl bromide and t-butyl acetate; while the current 15 profiles only consist of n-hexane and dichloromethane. Table 2 indicates that the profile update will result in 100% drop in dichloromethane and 48.2% drop in n-hexane emissions, and the addition of n-propyl bromide and t-butyl acetate emissions. The two high GWP compounds of interest are HFC-152a and HFC-134a. The use of new profiles will cause increase of emissions for both species because none of the current profiles consist of these two species.

Table 2. Impacts on Aerosol Coatings Categories (510-500-90##-0000) Using Updated Profiles

Statewide Annual Average Emissions	Current Profiles (tons/day)	Updated Profiles (tons/day)	Emission Change (tons/day)	Percentage of Change
ROG	20.1	19.4	-0.7	-3.5%%
OFP (tons O ₃)	53.2	42.3	-10.9	-20.5%
formaldehyde (toxic species)	0	0	0	N/A
dichloromethane (toxic species)	2.2e-1	0	-2.2e-1	-100.0%
perchloroethylene (toxic species)	0	0	0	N/A
trichloroethylene (toxic species)	0	0	0	N/A
n-hexane (toxic species)	1.1e-1	5.7e-2	-5.3e-2	-48.2%
n-propyl bromide (toxic species)	0	2.9e-4	+2.9e-4	N/A
t-butyl acetate (toxic species)	0	1.2e-3	+1.2e-3	N/A
HFC-152a (high GWP species)	0	6.2e-2	+6.2e-2	N/A
HFC-134a (high GWP species)	0	2.6e-2	+2.6e-2	N/A

Acknowledgment

We thank Consumer Products Program staff, who helped to create the raw profiles from the consumer products surveys data, verify the data, and provide background information for the speciation profile development.

References:

- 1. California Code of Regulations, Regulation for Reducing Emissions from Consumer Products, Title 17, Sections 94507-94517.
- 2. CARB. *Consumer and Commercial Product Surveys*. 2020 [cited 2020 June 20]; Available from: http://www.arb.ca.gov/consprod/survey/survey.htm.
- 3. *California Air Resources Board Main Speciation Profiles,* 2020, California Air Resources Board, *Accessed*: Oct 15, 2020.
- 4. California Code of Regulations, Tables of Maximum Incremental Reactivity (MIR) Values, Title 17, Sections 94700-94701.
- 5. CEPAM, 2020, California Air Resources Board, Accessed: July 20, 2020.

Appendix 1. New ARB-SAROAD Codes

ARB- SAROAD	CAS	Chemical Name	Formula	Molecular Weight
43144	50-21-5	lactic acid	$C_3H_6O_3$	90.08
43198	57-15-8	chlorobutanol	C ₄ H ₇ Cl ₃ O	177.46
43199	75-31-0	2-aminopropane	C ₃ H ₉ N	59.11
43200	75-76-3	tetramethylsilane	C ₄ H ₁₂ Si	88.22
43236	77-86-1	2-amino-2-(hydroxymethyl)-1,3- propanediol	C ₄ H ₁₁ NO ₃	121.14
43237	79-46-9	2-nitropropane	C ₃ H ₇ NO ₂	89.09
43239	84-69-5	diisobutyl phthalate	$C_{16}H_{22}O_4$	278.34
43240	88-12-0	1-vinyl-2-pyrrolidone	C ₆ H ₉ NO	111.14
43244	88-16-4	1-chloro-2-(trifluoromethyl)-benzene	C ₇ H ₄ ClF ₃	180.55
43247	97-86-9	isobutyl methacrylate	C ₈ H ₁₄ O ₂	142.2
43249	97-88-1	butyl methacrylate	C ₈ H ₁₄ O ₂	142.2
43251	97-90-5	ethylene glycol dimethacrylate	$C_{10}H_{14}O_4$	198.22
43253	106-22-9	3,7-dimethyl-6-octen-1-ol	$C_{10}H_{20}O$	156.27
43257	106-49-0	p-toluidine	C ₇ H ₉ N	107.15
43307	107-19-7	propargyl alcohol	C ₃ H ₄ O	56.06
43308	107-46-0	hexamethyldisiloxane	$C_6H_{18}OSi_2$	162.38
43319	107-51-7	octamethyltrisiloxane	$C_8H_{24}O_2Si_3$	236.53
43333	109-83-1	2-(methylamino)ethanol	C ₃ H ₉ NO	75.11
43335	110-45-2	isopentyl formate	$C_6H_{12}O_2$	116.16
43337	111-29-5	1,5-pentanediol	$C_5H_{12}O_2$	104.15
43338	112-30-1	decanol	C ₁₀ H ₂₂ O	158.28
43339	112-59-4	diethylene glycol monohexyl ether	$C_{10}H_{22}O_3$	190.28
43340	122-79-2	phenyl acetate	$C_8H_8O_2$	136.15
43341	123-19-3	4-heptanone	C ₇ H ₁₄ O	114.19
43342	141-04-8	diisobutyl adipate	$C_{14}H_{26}O_4$	258.35
43343	141-62-8	decamethyltetrasiloxane	$C_{10}H_{30}O_{3}Si_{4}$	310.69
43344	141-63-9	dodecamethylpentasiloxane	$C_{12}H_{36}O_4Si_5$	384.84
43346	141-97-9	ethyl acetoacetate	$C_6H_{10}O_3$	130.14
43347	293-51-6	cyclotetrasiloxane	$H_8O_4Si_4$	184.4
43348	306-94-5	perfluorodecalin	$C_{10}F_{18}$	462.08
43349	352-87-4	trifluoroethyl methacrylate	$C_6H_7F_3O_2$	168.11
43350	355-42-0	tetradecafluorohexane	C_6F_{14}	338.04
43352	463-57-0	methylene glycol	CH ₄ O ₂	48.04
43353	513-85-9	2,3-butanediol	$C_4H_{10}O_2$	90.12
43354	540-97-6	dodecamethylcyclohexasiloxane	$C_{12}H_{36}O_6Si_6$	444.92
43355	541-02-6	decamethylcyclopentasiloxane	$C_{10}H_{30}O5Si_5$	370.77
43357	541-05-9	hexamethylcyclotrisiloxane	$C_6H_{18}O_3Si_3$	222.46
43358	64742-65-0	distillates (petroleum), solvent-dewaxed heavy paraffinic		
43359	547-64-8	methyl lactate	$C_4H_8O_3$	104.1
43361	591-27-5	3-aminophenol	C ₆ H ₇ NO	109.13
43362	616-38-6	dimethyl carbonate	C ₃ H ₆ O ₃	90.08
43363	620-02-0	5-methylfurfural	$C_6H_6O_2$	110.11
43364	765-12-8	triethylene glycol divinyl ether	$C_{10}H_{18}O_4$	202.25
43375	773-82-0	pentafluorobenzonitrile	C ₇ F ₅ N	193.07
43377	925-06-4	diisobutyl succinate	C ₁₂ H ₂₂ O ₄	230.3
43386	928-96-1	3-hexenol	C ₆ H ₁₂ O	100.16
43387	999-97-3	hexamethyldisilazane	C ₆ H ₁₉ NSi ₂	161.39

43392 1708-82-3 3-heckenyl acetate C3H ₁₄ O ₂ 142.2 43393 2272-11-9 9-ottadecenoic acid (Z)- compd. with 2-	43388	1335-40-6	furancarboxylic acid ethyl ester	C ₇ H ₈ O ₃	140.14
43393	43392	1708-82-3		$C_8H_{14}O_2$	142.2
43396 2258-33-4 3-methyl-1,3-butanediol C4H ₁₀ O ₂ 104.15 43399 3174-67-2 1,3-pentanediol C4H ₁₀ O ₂ 104.15 43401 358-95-5 1,1-diethoxybutane C4H ₁₀ O ₂ 104.25 43402 3710-84-7 diethylhydroxylamine C4H ₁₀ O ₂ 104.25 43437 4435-53-4 3-methoxyl-butyl acetate C4H ₁₀ O ₂ 104.15 43443 7452-79-1 ethyl 2-methylbutyrate C4H ₁₀ O ₂ 118.17 43443 7452-79-1 ethyl 2-methylbutyrate C4H ₁₀ O ₂ 118.17 43444 8000-29-1 citronella oil 43449 8001-22-7 soybean oil 43453 8002-05-9 crude oil 43457 9004-73-3 polymethylhydrosiloxane (C2H ₁₀ O ₃ 104.16 43460 9006-65-9 dimethylpolysiloxane (C4H ₁₀ O ₃) 43461 9016-00-6 polydimethylsiloxane (C4H ₁₀ O ₃) 43461 9016-00-6 citro-10-6 citro-10-6 citro-10-6 citro-10-6 43462 10061-01-5 citro-13-dichloropropene C ₂ H ₁₀ O ₃ 43463 17861-60-8 3-ethylheptamethylrisiloxane C ₃ H ₂₀ O ₃ H ₃ O ₄ D ₄ P 43464 13597-73-4 disloxane H ₂ O ₅ O ₅ 43466 17955-88-3 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43461 17955-88-3 1,1,1,3,5,5-5-heptamethylrisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43466 17955-88-3 1,1,1,3,5,5-5-heptamethylrisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43461 17955-88-3 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43461 17955-88-3 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43460 17955-88-3 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxane C ₃ H ₂₀ O ₂ Si ₃ 250.56 43461 17955-88-3 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxane C ₄ H ₂₀ O ₃ 1,1,1,3,5,5-5-heptamethyl-3-octyl-trisiloxan	43393	2272-11-9	aminoethanol (1:1)	$C_{18}H_{34}O_2 \cdot C_2H_7NO$	343.54
43396 2258-33-4 3-methyl-1,3-butanediol CdH ₁₀ O ₂ 104.15 43399 3174-67-2 1,3-pentanediol CdH ₁₀ O ₂ 104.15 43401 358-89-5 1,1-diethoxybutane CdH ₁₀ O ₂ 140.25 43402 3710-84-7 diethylhydroxylamine CdH ₁₀ O ₂ 140.25 43437 4435-53-4 3-methoxyl-butyl acetate CdH ₁₀ O ₂ 140.15 43443 7435-53-4 3-methoxyl-butyl acetate CdH ₁₀ O ₂ 146.18 43443 7452-79-1 ethyl 2-methylburyate CdH ₁₀ O ₂ 1818.17 43444 8002-29-1 citronella oil 43449 8001-22-7 soybean oil 43445 8002-09-1 citronella oil 43457 9004-73-3 polymethylhydrosiloxane (CdH ₂ OSi)n 43450 9005-84 ethene, homopolymer (C2H ₃ O) 43460 9006-65-9 dimethylpolysiloxane 43461 9016-00-6 polydimethylsiloxane 43462 10061-01-5 cist-13-dichloropropene CdH ₂ OSi)n 43463 12789-46-7 amyl phosphate CdH ₂ OSi)n 43464 13597-73-4 disiloxane 43466 17955-88-3 11,1,3,5,5,5-heptamethyl-3-octyl-trisloxane CdH ₂ OSi)s 334.72 43468 105-99-7 dibutyl adipate CdH ₂ OSi)s 250.56 43461 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisloxane CdH ₂ OSi)s 250.56 43461 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisloxane CdH ₂ OSi)s 250.56 43461 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisloxane CdH ₂ OSi)s 334.72 43468 105-99-7 dibutyl adipate CdH ₂ OSi)s 250.56 43460 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisloxane CdH ₂ OSi)s 334.72 43472 25168-05-2 chlorotoluene CdH ₂ OC CH ₂ ODS 43473 25340-17-4 diethylberzene CdH ₂ OC CH ₂ OS 43474 2608-90-4 dibutyl adipate CdH ₂ OS 140.00 43475 26264-14-2 propaneli CdH ₂ OS 140.00 43476 26635-64-3 socotane CdH ₂ OS 140.00 43478 2430-22-0 7-methyl-1-octanol CdH ₂ OS 140.00 43488 56275-01-5 trienthylsilyl silicate CdH ₂ OS 140.00 43489 3406-40-1 tertamethyl ethyl ketoxime siliane CdH ₂ OS 140.00 43480 3406-40-1 tertamethyl ethyl ketoxime siliane CdH ₂ OS	43394	2530-85-0	3-(trimethoxysilyl)propyl methacrylate	$C_{10}H_{20}O_5Si$	248.35
43399 3174-67-2 1.3-pentaneciol C.3H ₁₁ O ₂ 104.15 43401 3658-95-5 1.1-diethoxybutane C.3H ₁₁ O ₂ 146.23 43402 3710-84-7 diethylhydroxylamine C.3H ₁₁ O ₃ 146.18 43437 4435.53.44 3-methoxy-1-butyl acetate C.7H ₁₄ O ₃ 146.18 43443 6920-22-5 1.2-hexaneciol C.4H ₁₄ O ₂ 118.17 43443 7452-79-1 ethyl 2-methylbutyrate C.7H ₁₄ O ₂ 130.18 43449 8001-22-7 soybean oil	43396	2568-33-4	3-methyl-1,3-butanediol	$C_5H_{12}O_2$	104.15
43401 3658-95-5 1.1-diethoxybutane C ₃ H ₁₈ O ₂ 146.23 43402 3710-84-7 3-methoxy-1-butyl acetate C ₂ H ₁₄ (NO 89.14 43437 4345-53-4 3-methoxy-1-butyl acetate C ₂ H ₁₄ O ₂ 146.18 43442 6920-22-5 1.2-hexanediol C ₃ H ₁₄ O ₂ 118.17 43448 8000-29-1 citronella oil	43398	2835-99-6	4-amino-m-cresol	C ₇ H ₉ NO	123.15
43402 3710-84-7 diethylhydroxylamine	43399	3174-67-2		$C_5H_{12}O_2$	104.15
43437	43401	3658-95-5		$C_8H_{18}O_2$	146.23
43442 6920-22-5 1,2-hexanedio C ₈ H ₁₄ O ₂ 118.17 43448 8000-29-1 citronella oi controlla oi contro	43402	3710-84-7	diethylhydroxylamine	C ₄ H ₁₁ NO	89.14
43443	43437	4435-53-4		$C_7H_{14}O_3$	146.18
43448 8000-29-1 citronella oil 43449 8001-22-7 soybean oil 434453 8002-05-9 crude oil (C ₂ H ₄) _X 43456 9002-88-4 ethene, homopolymer (C ₂ H ₄) _X (C ₂ H ₄) _X 43457 9004-73-3 polymethylhydrosiloxane (CH ₄ OSi)n (C ₂ H ₄) ₂ (C ₂ H ₄) ₃ (C ₂ H ₄) ₄ (C ₃ H ₄ OC) (C ₃ H ₄ OC)	43442	6920-22-5	1,2-hexanediol	$C_6H_{14}O_2$	118.17
43449 8001-22-7 soybean oil 43453 8002-05-9 crude oil	43443	7452-79-1		$C_7H_{14}O_2$	130.18
43453 8002-05-9 crude oil cthene, homopolymer (C2H4)x 43457 9004-73-3 polymethylhydrosiloxane (CH,QSi)n (C	43448	8000-29-1	citronella oil		_
43456 9002-88-4 ethene, homopolymer (C ₂ H ₄) _X (CH ₄ OSi) ₁ 9004-73-3 polymethylhydrosiloxane (CH ₄ OSi) ₁ 136.23 43459 9005-90-7 turpentine C ₁₀ H ₁₆ 136.23 43460 9006-65-9 dimethylpolysiloxane (C ₂ H ₆ OSi) ₁ 43461 9016-00-6 polydimethylsiloxane (C ₂ H ₆ OSi) ₁ (C ₂ H ₆ CI) ₂ 110.97 43461 12789-46-7 amyl phosphate C ₃ H ₁₂ O:xH ₃ O ₄ P 43463 12789-46-7 amyl phosphate C ₃ H ₁₂ O:xH ₃ O ₄ P 43465 17861-60-8 3-chylheptamethyltrisiloxane C ₉ H ₂₆ O ₂ Si ₃ 250.56 43466 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisiloxane C ₁ H ₃₆ O ₂ Si ₃ 334.72 43471 25054-06-2 formaldehyde-cyclohexanone copolymer (C ₆ H ₁₀ O-CH ₂ O) _X 43472 25168-05-2 chlorotolume C ₁ H ₂ O ₂ chlorotolume C ₁ H ₂ O ₁ O 258.35 43474 26038-90-4 diethylbenzene C ₁ H ₂ O ₁ O C ₃ H ₉ O ₂ O 76.09 43476 26635-64-3 isooctane C ₈ H ₁₈ 114.23 43478 2430-22-0 7-methyl-1-octanol C ₃ H ₂ O ₂ 76.09 43478 2430-22-0 7-methyl-1-octanol C ₃ H ₃ O ₃ O ₃ 372.54 43482 35915-22-1 methyl-1-octanol C ₃ H ₃ O ₃ O ₃ 372.54 43483 54839-24-6 2-ethoxy-1-methyl-1-octanol C ₃ H ₃ O ₃ O ₃ 372.54 43488 56275-01-5 formaldehyde-phenol-m-xylenediamine C ₁₆ H ₃ O ₃ 372.54 43488 64365-06-6 isoparaffinic 43490 64741-66-8 aphtha (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-54-7	43449	8001-22-7	soybean oil		_
43457 9004-73-3 polymethylhydrosiloxane CH ₄ OSi)n 43459 9005-90-7 turpentine C ₁₀ H ₁₆ 136.23 43460 9006-65-9 dimethylpolysiloxane C2H ₆ OSi)n 43461 9016-00-6 polydimethylsiloxane C2H ₆ OSi)n 43462 10061-01-5 cis-1,3-dichloropropene C,H ₄ Cl ₂ 110.97 43463 12789-46-7 amyl phosphate C5H ₁₂ O-XH ₄ OP 43464 13597-73-4 disiloxane H ₆ OSi ₂ 78.22 43465 17861-60-8 3-ethylheptamethyltrisiloxane C ₉ H ₂₆ O ₂ Si ₃ 250.56 43466 17955-88-3 trisiloxane C ₁ H ₃ SO ₂ Si ₃ 334.72 43468 105-99-7 dibutyl adipate C ₁₄ H ₃₆ O ₄ 258.35 43471 25054-05-2 chlorotoluene C ₂ H ₇ Cl 126.58 43473 25340-17-4 diethylbenzene C ₁₀ H ₁₄ 134.22 43474 26038-90-4 dimino-2-propanol C ₃ H ₅ O ₂ 76.09 43475 26264-14-2 propanediol C ₃ H ₅ O ₂ 76.09 43476 2635-64-3 isooctane C ₃ H ₁₀ O C ₃ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₁ H ₃ O ₃ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁ H ₃ O ₃ 16.18 43481 5439-24-6 2-ethoxy-1-methylethyl acetate C ₁ H ₁₀ O ₃ 16.18 43488 64365-06-6 isoparaffins aphtha (petroleum), hydrotreated light distillates (petroleum) 43490 64741-86-2 sweetened middle distillates (petroleum) naphtha (petroleum), hydrotreated light distillates (petroleum) distillates (petroleum) naphtha (petroleum), hydrotreated light distillates (petroleum) distillates (petroleum) distillates (petroleum) proparedical	43453	8002-05-9			_
43459 9005-90-7 turpentine	43456	9002-88-4	ethene, homopolymer	$(C_2H_4)_X$	_
43460 9006-65-9 dimethylpolysiloxane (C2H6OSi)n 43461 9016-00-6 polydimethylsiloxane (C2H6OSi)n (C3H4Cl2 110.97 110.	43457	9004-73-3	polymethylhydrosiloxane	(CH ₄ OSi)n	
43461 9016-00-6 polydimethylsiloxane (C ₃ H ₆ OSi)n 43462 10061-01-5 cis-1,3-dichloropropene C ₃ H ₄ Cl ₂ 110.97 43463 12789-46-7 amyl phosphate C ₅ H ₁₂ O·xH ₃ O ₄ P 110.97 43464 13597-73-4 disiloxane H ₆ OSi ₂ 78.22 43465 17861-60-8 3-ethylheptamethyltrisiloxane C ₅ H ₂₆ O ₂ Si ₃ 250.56 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisiloxane C ₁₅ H ₂₆ O ₂ Si ₃ 250.56 17955-88-3 1,1,1,3,5,5,5-heptamethyl-3-octyl-trisiloxane C ₁₅ H ₂₆ O ₄ 258.35 43468 105-99-7 dibutyl adipate C ₁₄ H ₂₆ O ₄ 258.35 43471 25054-06-2 formaldehyde-cyclohexanone copolymer (C ₆ H ₁₀ O-CH ₂ O)x 43472 25168-05-2 chlorotoluene C ₇ H ₇ Cl 126.58 43473 25340-17-4 diethylbenzene C ₁₀ 6H ₁₄ 134.22 43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- amino-2-propanol C ₃ H ₆ O ₂ 76.09 43476 26635-64-3 isooctane C ₃ H ₁₈ 114.23 43478 2430-22-0 7-methyl-1-octanol C ₃ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₇ H ₉ NO ₃ 155.15 43480 3420-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43481 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ O ₂ 102.13 43481 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ O ₂ 102.13 43489 64741-86-2 extenoxy-1-methylethyl acetate C ₃ H ₁₀ O ₃ 146.18 43488 64365-06-6 soparaffins 43490 64741-86-2 sweetened middle distillates (petroleum) hydrotreated light 43494 64742-49-0 naphtha (petroleum), hydrotreated light distillates (petroleum), hydrotreated light distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light distillates (petroleum), hydrotr	43459	9005-90-7	turpentine	$C_{10}H_{16}$	136.23
43462	43460	9006-65-9	dimethylpolysiloxane		
43463 12789-46-7 amyl phosphate C ₅ H ₁₂ O·xH ₃ O ₄ P 43464 13597-73-4 disiloxane H ₆ OSi ₂ 78.22 43465 17861-60-8 3-ethylleptamethyltrisiloxane C ₉ H ₂₆ O ₂ Si ₃ 250.56 43466 17955-88-3 I.1,1,3,5,5,5-heptamethyl-3-octyl-trisiloxane C ₁₅ H ₃₈ O ₂ Si ₃ 334.72 43468 105-99-7 dibutyl adipate C ₁₄ H ₂₆ O ₄ 258.35 43471 25054-06-2 formaldehyde-cyclohexanone copolymer (C ₆ H ₁₀ O·CH ₂ O) _X 25168-05-2 chlorotoluene C ₇ H ₇ Cl 126.58 43473 25340-17-4 diethylbenzene C ₁₀ H ₁₄ 134.22 43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- arimon-2-propanol C ₃ H ₈ O ₂ 76.09 43476 26635-64-3 isooctane C ₃ H ₁₈ 114.23 43477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C ₈ F ₁₆ 400.06 43478 2430-22-0 7-methyl-1-octanol C ₈ H ₁₆ 400.06 43478 2430-22-0 7-methyl-1-octanol C ₈ H ₁₀ O ₂ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₃ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₀ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₁₆ H ₃₄ O ₃ C ₁₄ C ₁₆ C ₁₆ O ₃ C ₁₄ C ₁₆	43461	9016-00-6	polydimethylsiloxane	(C ₂ H ₆ OSi)n	
43464 13597-73-4 disiloxane	43462	10061-01-5	cis-1,3-dichloropropene	C ₃ H ₄ Cl ₂	110.97
43465	43463	12789-46-7	amyl phosphate	C ₅ H ₁₂ O·xH ₃ O ₄ P	
43465 17861-60-8 3-ethylheptamethyltrisiloxane C ₉ H ₂₆ O ₂ Si ₃ 250.56 43466 17955-88-3 11,1,1,3,5,5,5-heptamethyl-3-octyl-trisiloxane C ₁₅ H ₃₈ O ₂ Si ₃ 334.72 43468 105-99-7 dibutyl adipate C ₁₄ H ₂₆ O ₄ 258.35 43471 25054-06-2 formaldehyde-cyclohexanone copolymer (C ₆ H ₁₀ O·CH ₂ O)x 43472 25168-05-2 chlorotoluene C ₇ H ₇ Cl 126.58 43473 25340-17-4 diethylbenzene C ₁₀ H ₁₄ 134.22 43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- amino-2-propanol C ₃ H ₉ NO·xBH ₃ O ₃ 43475 26264-14-2 propanediol C ₃ H ₉ O ₂ 76.09 43476 26635-64-3 isooctane C ₈ H ₁₈ 114.23 43477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C ₅ H ₁₆ 400.06 43478 2430-22-0 7-methyl-1-octanol C ₉ H ₂₀ O 144.25 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃ N ₄ O ₄ Si 372.54 43481 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ O ₃ 146.18 43487 63148-53-8 siloxanes C ₁₆ H ₃₄ 226.44 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light distillates (petroleum), hyd	43464	13597-73-4	disiloxane	H ₆ OSi ₂	78.22
17955-88-3	43465	17861-60-8	3-ethylheptamethyltrisiloxane		250.56
43471 25054-06-2 formaldehyde-cyclohexanone copolymer (C ₆ H ₁₀ O·CH ₂ O)x 43472 25168-05-2 chlorotoluene C ₇ H ₇ Cl 126.58 43473 25340-17-4 diethylbenzene C ₁₀ H ₁₄ 134.22 43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- amino-2-propanol C ₃ H ₆ O ₂ 76.09 43476 26635-64-3 isooctane C ₈ H ₁₈ 114.23 43477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C ₈ F ₁₆ 400.06 43478 2430-22-0 7-methyl-1-octanol C ₉ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₇ H ₉ NO ₃ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43487 63148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43490 64741-66-8 naphtha (petroleum), light alkylate 43491 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light 43494 64741-55-8 distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light 43494 64741-55-8 distillates (petroleum), hydrotreated light 64742-55-8 distillates (petroleum),	43466	17955-88-3	1,1,1,3,5,5,5-heptamethyl-3-octyl-	C ₁₅ H ₃₈ O ₂ Si ₃	334.72
43472	43468	105-99-7	dibutyl adipate	C ₁₄ H ₂₆ O ₄	258.35
43473 25340-17-4 diethylbenzene C ₁₀ H ₁₄ 134.22 43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- amino-2-propanol C ₃ H ₈ O ₂ 76.09 43475 26264-14-2 propanediol C ₃ H ₈ O ₂ 76.09 43476 26635-64-3 isooctane C ₈ H ₁₈ 114.23 43477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C ₈ F ₁₆ 400.06 43478 2430-22-0 7-methyl-1-octanol C ₉ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₇ H ₉ NO ₃ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O)x 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes siloxanes 43488 64365-06-6 isoparaffins aphtha (petroleum), light alkylate sweetened middle distillates (petroleum) 43491 64742-54-7 distillates (petroleum), hydrotreated light distillates (petroleum), hydrotreat	43471	25054-06-2	formaldehyde-cyclohexanone copolymer	$(C_6H_{10}O\cdot CH_2O)_X$	
43474 26038-90-4 boric acid (H ₃ BO ₃), compd. with 1- amino-2-propanol C ₃ H ₉ NO·xBH ₃ O ₃ 76.09 43475 26264-14-2 propanediol C ₃ H ₈ O ₂ 76.09 43476 26635-64-3 isooctane C ₈ H ₁₈ 114.23 43477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C ₈ F ₁₆ 490.06 43478 2430-22-0 7-methyl-1-octanol C ₉ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₇ H ₉ NO ₃ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O)x 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes 3148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light heavy paraffinic heavy paraffinic distillates (petroleum), hydrotreated light heavy paraffinic heavy paraffinic distillates (petroleum), hydrotreated light heavy paraffinic heavy	43472	25168-05-2	chlorotoluene	C ₇ H ₇ Cl	126.58
A3474 20038-90-4 amino-2-propanol C3HgNO-XBH3O3 A3475 26264-14-2 propanediol C3HgNO2 76.09 A3476 26635-64-3 isooctane C8H18 114.23 A3477 335-27-3 perfluoro(1,3-dimethylcyclohexane) C8F16 400.06 A3478 2430-22-0 7-methyl-1-octanol C9H20O 144.25 A3479 27816-23-5 2-methoxyethyl cyanoacrylate C7H9NO3 155.15 A3480 34206-40-1 tetra(methyl ethyl ketoxime)silane C16H32N4O4Si 372.54 A3482 35915-22-1 methylbutyric acid C5H10O2 102.13 A3483 54839-24-6 2-ethoxy-1-methylethyl acetate C7H14O3 146.18 A3484 56275-01-5 trimethylsilyl silicate C3H10OSi x-unspecified A3485 57214-10-5 formaldehyde-phenol-m-xylenediamine (C8H12N2-C6H6O-CH2O)x A3486 60908-77-2 isohexadecane C16H34 226.44 A3487 63148-53-8 siloxanes A3488 64365-06-6 isoparaffins isoparaffins A3489 64741-66-2 sweetened middle distillates (petroleum) A3491 64742-49-0 naphtha (petroleum), hydrotreated light A3493 64742-54-7 distillates (petroleum), hydrotreated light A3494 64742-54-7 distillates (petroleum), hydrotreated light A3494 64742-55-8 distillates (petroleum), hydrotreated light	43473	25340-17-4	diethylbenzene	$C_{10}H_{14}$	134.22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	43474	26038-90-4		C ₃ H ₉ NO·xBH ₃ O ₃	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	43475	26264-14-2	propanediol	$C_3H_8O_2$	76.09
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	43476	26635-64-3			
43478 2430-22-0 7-methyl-1-octanol C ₉ H ₂₀ O 144.25 43479 27816-23-5 2-methoxyethyl cyanoacrylate C ₇ H ₉ NO ₃ 155.15 43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₃ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O) _X 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes (C ₁₆ H ₃₄ 226.44 43489 64741-66-8 naphtha (petroleum), light alkylate sweetened middle distillates (petroleum) 43491 64742-54-7 distillates (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light	43477	335-27-3	perfluoro(1,3-dimethylcyclohexane)		400.06
43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₅ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O)x 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes C ₁₆ H ₃₄ 226.44 43489 64741-66-8 naphtha (petroleum), light alkylate sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light distillates (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light	43478	2430-22-0			
43480 34206-40-1 tetra(methyl ethyl ketoxime)silane C ₁₆ H ₃₂ N ₄ O ₄ Si 372.54 43482 35915-22-1 methylbutyric acid C ₅ H ₁₀ O ₂ 102.13 43483 54839-24-6 2-ethoxy-1-methylethyl acetate C ₇ H ₁₄ O ₃ 146.18 43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O)x 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes C ₁₆ H ₃₄ 226.44 43489 64741-66-8 naphtha (petroleum), light alkylate sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light distillates (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light	43479	27816-23-5	2-methoxyethyl cyanoacrylate	C ₇ H ₉ NO ₃	155.15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	43480			C ₁₆ H ₃₂ N ₄ O ₄ Si	372.54
43484 56275-01-5 trimethylsilyl silicate C ₃ H ₁₀ OSi·x-unspecified 43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O) _X 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes 3148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-54-7 distillates (petroleum), hydrotreated light	43482	35915-22-1	methylbutyric acid	$C_5H_{10}O_2$	102.13
43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O) _X 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes 3148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-55-8 distillates (petroleum), hydrotreated light	43483	54839-24-6	2-ethoxy-1-methylethyl acetate	C ₇ H ₁₄ O ₃	146.18
43485 57214-10-5 formaldehyde-phenol-m-xylenediamine copolymer (C ₈ H ₁₂ N ₂ ·C ₆ H ₆ O·CH ₂ O) _X 43486 60908-77-2 isohexadecane C ₁₆ H ₃₄ 226.44 43487 63148-53-8 siloxanes 3148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated light 43494 64742-55-8 distillates (petroleum), hydrotreated light	43484	56275-01-5	trimethylsilyl silicate	C ₃ H ₁₀ OSi·x-unspecified	
43487 63148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light	43485	57214-10-5		$(C_8H_{12}N_2\cdot C_6H_6O\cdot CH_2O)_X$	
43487 63148-53-8 siloxanes 43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light	43486	60908-77-2	1 7	C ₁₆ H ₃₄	226.44
43488 64365-06-6 isoparaffins 43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light				30 21	
43489 64741-66-8 naphtha (petroleum), light alkylate 43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light					_
43490 64741-86-2 sweetened middle distillates (petroleum) 43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light			*		-
43491 64742-49-0 naphtha (petroleum), hydrotreated light 43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light					
43493 64742-54-7 distillates (petroleum), hydrotreated heavy paraffinic 43494 64742-55-8 distillates (petroleum), hydrotreated light					
distillates (petroleum), hydrotreated light			distillates (petroleum), hydrotreated		
	43494	64742-55-8	distillates (petroleum), hydrotreated light		

43495	64742-56-9	distillates (petroleum), solvent-dewaxed light paraffinic		
43496	67762-38-3	fatty acids, C16-18 and C18-unsatd., Me esters		
43497	68131-99-7	naphtha (petroleum), light steam-cracked, debenzenized, polymers		
43498	68333-25-5	distillates (petroleum), hydrodesulfurized light catalytic cracked		
43499	68586-07-2	boric acid (H3BO3), compd. with 2-aminoethanol (1:1)	C ₂ H ₇ NO·BH ₃ O ₃	122.92
43500	68782-97-8	distillates (petroleum), hydrofined lubricating-oil		
43501	68919-53-9	soya fatty acids, Me esters		
43507	68937-10-0	butene, homopolymer, hydrogenated		
43508	68988-56-7	polytrimethylhydrosilylsiloxane		
43509	69991-61-3	ethene, 1,1,2,2-tetrafluoro-, oxidized, polymd.		
43515	77138-45-5	formaldehyde, olgomeric reaction products with 4,4'- isopropylidenediphenol and diethylenetriamine		
43517	84696-19-5	witch hazel		
43518	86508-42-1	perfluoro compounds, C5-18		
43519	90082-75-0	pine, pinus pinaster, ext.		
43520	90082-77-2	pinus strobus bark ext.		
43521	90132-02-8	vinegar, ext.		
43522	92112-69-1	hexane, branched and linear	C ₆ H ₁₄	
43523	132739-31-2	dipropylene glycol tert-butyl ether	01114	
43524	43-52-4	fragrance A		
43525	43-52-5	fragrance B		
43528	290-87-9	1,3,5-triazine	C ₃ H ₃ N ₃	81.08
43529	16926-87-7	3-phenoxy 2-hydroxypropyl methacrylate	$C_{13}H_{16}O_4$	236.26
43530	1645-83-6	1,3,3,3-tetrafluoropropene	C ₃ H ₂ F ₄	114.04
43531	17162-29-7	menthyl lactate	$C_{13}H_{24}O_3$	228.33
43532	94266-48-5	pine, ext.	013112403	
43533	60583-39-3	brucine sulfate heptahydrate	C ₂₃ H ₂₆ N ₂ O ₄ ·1/2H ₂ O ₄ S·7/ 2H ₂ O	506.46
43534	68551-19-9	hydrocarbons, C12-C14, isoalkanes	2 -	
43535	246538-79-4	hydrocarbons, C13-C14, isoalkanes		
43536	68551-20-2	hydrocarbons, C13-C16, isoalkanes		
43537	43-53-7	fragrance AC		
43539	70024-92-9	alkanes, C7-8-iso-		
43540	246538-75-0	alkanes, C10-11-iso-		
43541	129813-66-7	alkanes, C10-C13		
43542	90622-58-5	alkanes, C11-15-iso-		
43543	246538-78-3	alkanes, C11-13-iso-		
43544	246538-76-1	alkanes, C11-12-iso-		
43545	90622-46-1	alkanes, C14-16		
15515	70022 10 1		<u> </u>	

CP_OG(2020)

Appendix 2. New OG Speciation Profiles for Consumer Products (2020 Update)

See details in CP_OG2020.xlsx (available upon request).

Appendix 3. The Assignment of New OG Consumer Product Speciation Profiles

(a) Consumer Products (Aerosol Coatings Excluded) (510-506-6###-0000)

Profile Number	Profile Name	EIC	Effective Year
3201	Consumer Products: Construction and Panel Adhesives (2020 Update)	510-506-6505-0000	2009
3202	Consumer Products: General Purpose Adhesive (2020 Update)	510-506-6507-0000	2009
3203	Consumer Products: Aerosol Adhesive (Including Industrial) (2020 Update)	510-506-6508-0000	2002
3204	Consumer Products: Pipe Cements and Primers (2020 Update)	510-506-6509-0000	2009
3205	Consumer Products: Contact Adhesive - General Purpose (2020 Update)	510-506-6512-0000	2007
3206	Consumer Products: Contact Adhesive - Special Purpose (2020 Update)	510-506-6513-0000	2007
3207	Consumer Products: Other Adhesives (2020 Update)	510-506-6514-0000	2009
3208	Consumer Products: Adhesive Removers - Floor and Wall Covering (2020 Update)	510-506-6515-0000	2007
3209	Consumer Products: Adhesive Removers - Gasket or Thread Locking (2020 Update)	510-506-6516-0000	2007
3210	Consumer Products: Adhesive Removers - General Purpose (2020 Update)	510-506-6517-0000	2009
3211	Consumer Products: Adhesive Removers - Specialty (2020 Update)	510-506-6518-0000	2007
3212	Consumer Products: Other Sealants and Caulks (2020 Update)	510-506-6519-0000	2009
3213	Consumer Products: Sealants & Caulking Compounds (2020 Update)	510-506-6520-0000	2013
3214	Consumer Products: Insulating and Sealing Foam (2020 Update)	510-506-6522-0000	2009
3215	Consumer Products: Bug and Tar Removers (2020 Update)	510-506-6530-0000	2009
3216	Consumer Products: Automotive Hard Paste Waxes (2020 Update)	510-506-6533-0000	2009
3217	Consumer Products: Automotive Instant Detailers (2020 Update)	510-506-6534-0000	2009
3218	Consumer Products: Automotive Waxes/Polishes/Sealants/Glazes (2020 Update)	510-506-6535-0000	2009
3219	Consumer Products: Rubber and Vinyl Protectants - Aerosols (2020 Update)	510-506-6536-0000	2005

Profile Number	Profile Name	EIC	Effective Year
3220	Consumer Products: Rubber and Vinyl Protectants - Non-Aerosols (2020 Update)	510-506-6537-0000	2009
3221	Consumer Products: Automotive Rubbing or Polishing Compounds (2020 Update)	510-506-6538-0000	2009
3222	Consumer Products: Tire and Wheel Cleaners (2020 Update)	510-506-6539-0000	2011
3223	Consumer Products: Automotive Brake Cleaners (2020 Update)	510-506-6551-0000	2011
3224	Consumer Products: Carburetor or Fuel-Injection Air Intake Cleaners (2020 Update)	510-506-6552-0000	2011
3225	Consumer Products: Engine Degreasers - Aerosols (2020 Update)	510-506-6553-0000	2011
3226	Consumer Products: Engine Degreasers - Non-Aerosols (2020 Update)	510-506-6554-0000	2009
3227	Consumer Products: Tire Sealants and Inflators (2020 Update)	510-506-6557-0000	2009
3228	Consumer Products: Automotive Undercoatings - Aerosols (2020 Update)	510-506-6558-0000	2009
3229	Consumer Products: Automotive Windshield Washer Fluids - Non Type A (2020 Update)	510-506-6560-0000	2009
3230	Consumer Products: Automotive Windshield Washer Fluid - Type A Areas (2020 Update)	510-506-6562-0000	2009
3231	Consumer Products: Motor Vehicle Wash (2020 Update)	510-506-6564-0000	2011
3232	Consumer Products: Windshield Washer Repellent (2020 Update)	510-506-6565-0000	2011
3233	Consumer Products: Paint Removers or Strippers (2020 Update)	510-506-6571-0000	2009
3234	Consumer Products: Graffiti Remover - Aerosol (2020 Update)	510-506-6572-0000	2009
3235	Consumer Products: Graffiti Remover - Non-Aerosol (2020 Update)	510-506-6573-0000	2009
3236	Consumer Products: Multi-Purpose Solvents and paint Thinners (2020 Update)	510-506-6580-0000	2014
3237	Consumer Products: Electrical Cleaner (2020 Update)	510-506-6583-0000	2007
3238	Consumer Products: Electronic Cleaner (2020 Update)	510-506-6584-0000	2009
3239	Consumer Products: Energized Electrical Cleaner (2020 Update)	510-506-6585-0000	2009
3240	Consumer Products: Odor Remover/Eliminator (2020 Update)	510-506-6588-0000	2011

Profile Number	Profile Name	EIC	Effective Year
3241	Consumer Products: Disinfectants (2020 Update)	510-506-6590-0000	2009
3242	Consumer Products: Sanitizers (2020 Update)	510-506-6591-0000	2009
3243	Consumer Products: Non-Selective Herbicides/Defoliants (2020 Update)	510-506-6600-0000	2009
3244	Consumer Products: Flea and Tick Insecticide (2020 Update)	510-506-6610-0000	2009
3245	Consumer Products: Flying Insect Insecticide - Aerosols (2020 Update)	510-506-6611-0000	2014
3246	Consumer Products: Flying Insect Insecticide - Non-Aerosols (2020 Update)	510-506-6612-0000	2009
3247	Consumer Products: Wasp and Hornet Insecticide (2020 Update)	510-506-6613-0000	2014
3248	Consumer Products: Lawn and Garden Insecticides (2020 Update)	510-506-6614-0000	2009
3249	Consumer Products: Crawling Bug Insecticides - Aerosols (2020 Update)	510-506-6615-0000	2009
3250	Consumer Products: Crawling Bug Insecticides - Non-Aerosols (2020 Update)	510-506-6616-0000	2009
3251	Consumer Products: Insecticide Foggers (2020 Update)	510-506-6617-0000	2009
3252	Consumer Products: Insect Repellants - Aerosols (2020 Update)	510-506-6625-0000	2009
3253	Consumer Products: Insect Repellants - Non-Aerosols (2020 Update)	510-506-6626-0000	2009
3254	Consumer Products: Other Insecticides and Repellents (2020 Update)	510-506-6628-0000	2009
3255	Consumer Products: Fabric Softener Dryer Sheet (2020 Update)	510-506-6630-0000	2011
3256	Consumer Products: Fabric Softener (2020 Update)	510-506-6631-0000	2009
3257	Consumer Products: Fabric Refresher - Aerosol (2020 Update)	510-506-6633-0000	2007
3258	Consumer Products: Fabric Refresher - Non-Aerosol (2020 Update)	510-506-6634-0000	2007
3259	Consumer Products: Carpet and Upholstery Cleaners - Aerosols (2020 Update)	510-506-6635-0000	2011
3260	Consumer Products: Carpet and Upholstery Cleaners - Non-Aerosols (2020 Update)	510-506-6636-0000	2011
3261	Consumer Products: Spot Removers - Aerosols (2020 Update)	510-506-6638-0000	2013

Profile Number	Profile Name	EIC	Effective Year
3262	Consumer Products: Spot Removers - Non-Aerosols (2020 Update)	510-506-6639-0000	2013
3263	Consumer Products: Fabric Protectants - Aerosol (2020 Update)	510-506-6640-0000	2009
3264	Consumer Products: Fabric Protectant - Non-Aerosol (2020 Update)	510-506-6642-0000	2011
3265	Consumer Products: Mothballs (2020 Update)	510-506-6644-0000	2009
3266	Consumer Products: Floor Maintenance Product (2020 Update)	510-506-6645-0000	2011
3267	Consumer Products: Floor Wax Strippers (2020 Update)	510-506-6650-0000	2009
3268	Consumer Products: General Purpose Cleaners - Aerosols (2020 Update)	510-506-6651-0000	2009
3269	Consumer Products: General Purpose Cleaners - Non-Aerosols (2020 Update)	510-506-6652-0000	2013
3270	Consumer Products: General Purpose Degreasers - Aerosols (2020 Update)	510-506-6653-0000	2011
3271	Consumer Products: General Purpose Degreasers - Non-Aerosols (2020 Update)	510-506-6654-0000	2013
3272	Consumer Products: Glass Cleaners - Aerosols (2020 Update)	510-506-6655-0000	2013
3273	Consumer Products: Glass Cleaners - Non-Aerosols (2020 Update)	510-506-6656-0000	2013
3274	Consumer Products: Metal Polishes/Cleansers (2020 Update)	510-506-6657-0000	2013
3275	Consumer Products: Oven Cleaners - Aerosols (2020 Update)	510-506-6658-0000	2009
3276	Consumer Products: Oven Cleaners - Non-Aerosols (2020 Update)	510-506-6659-0000	2013
3277	Consumer Products: Bathroom and Tile Cleaners - Aerosols (2020 Update)	510-506-6661-0000	2009
3278	Consumer Products: Bathroom and Tile Cleaners - Non-Aerosols (2020 Update)	510-506-6662-0000	2009
3279	Consumer Products: Toilet/Urinal Care Product (Para-Only) (2020 Update)	510-506-6663-0000	2009
3280	Consumer Products: Toilet/Urinal Care Product (Non-Para) (2020 Update)	510-506-6664-0000	2009
3281	Consumer Products: Other Laundry Products (2020 Update)	510-506-6668-0000	2009
3282	Consumer Products: Laundry Prewash (2020 Update)	510-506-6670-0000	2009

Profile Number	Profile Name	EIC	Effective Year
3283	Consumer Products: Laundry Starches, Sizings, etc. (2020 Update)	510-506-6672-0000	2009
3284	Consumer Products: Anti-Static Product - Aerosol (2020 Update)	510-506-6673-0000	2009
3285	Consumer Products: Anti-Static Product - Non-Aerosol (2020 Update)	510-506-6674-0000	2007
3286	Consumer Products: Dusting Aids - Aerosols (2020 Update)	510-506-6680-0000	2011
3287	Consumer Products: Dusting Aids - Non-Aerosols (2020 Update)	510-506-6681-0000	2011
3288	Consumer Products: Floor Polish or Wax (2020 Update)	510-506-6682-0000	2011
3289	Consumer Products: Wood Floor Wax/Polish (2020 Update)	510-506-6684-0000	2011
3290	Consumer Products: Furniture Maintenance Products - Aerosols (2020 Update)	510-506-6685-0000	2014
3291	Consumer Products: Furniture Maintenance Products - Other Forms (2020 Update)	510-506-6686-0000	2009
3292	Consumer Products: Footwear or Leather Care Product - Aerosol (2020 Update)	510-506-6688-0000	2007
3293	Consumer Products: Footwear or Leather Care Product - Solid (2020 Update)	510-506-6689-0000	2009
3294	Consumer Products: Footwear or Leather Care Product - All Other Forms (2020 Update)	510-506-6690-0000	2009
3295	Consumer Products: Wood Cleaner - Aerosol (2020 Update)	510-506-6691-0000	2007
3296	Consumer Products: Wood Cleaner - Non-Aerosol (2020 Update)	510-506-6692-0000	2007
3297	Consumer Products: Multi-Purpose Lubricant (2020 Update)	510-506-6700-0000	2014
3298	Consumer Products: Silicone Based Multi-Purpose Lubricant (2020 Update)	510-506-6701-0000	2005
3299	Consumer Products: Penetrant (2020 Update)	510-506-6702-0000	2014
3300	Consumer Products: Specialty Lubricant (2020 Update)	510-506-6703-0000	2014
3301	Consumer Products: Single Phase Aerosol Air Fresheners (2020 Update)	510-506-6710-0000	2009
3302	Consumer Products: Double Phase Aerosol Air Fresheners (2020 Update)	510-506-6711-0000	2013
3303	Consumer Products: Liquid/Pump Spray Air Fresheners (2020 Update)	510-506-6713-0000	2009

Profile Number	Profile Name	EIC	Effective Year
3304	Consumer Products: Solid/Gel Air Fresheners (2020 Update)	510-506-6714-0000	2009
3305	Consumer Products: Charcoal Lighter Materials (2020 Update)	510-506-6720-0000	2009
3306	Consumer Products: Aerosol Cooking Sprays (2020 Update)	510-506-6721-0000	2009
3307	Consumer Products: Underarm Antiperspirants (2020 Update)	510-506-6730-0000	2009
3308	Consumer Products: Underarm Deodorants (2020 Update)	510-506-6732-0000	2009
3309	Consumer Products: Deodorant Body Spray (2020 Update)	510-506-6735-0000	2009
3310	Consumer Products: Astringents/Toners (2020 Update)	510-506-6740-0000	2011
3311	Consumer Products: Hand and Body Lotions (2020 Update)	510-506-6741-0000	2009
3312	Consumer Products: Sun Screen/Tanning Products (2020 Update)	510-506-6742-0000	2009
3313	Consumer Products: Personal Fragrance Product (Fragrance ≤ 20%) (2020 Update)	510-506-6750-0000	2009
3314	Consumer Products: Personal Fragrance Product (Fragrance > 20%) (2020 Update)	510-506-6751-0000	2009
3315	Consumer Products: Temp Hair Color (2020 Update)	510-506-6756-0000	2009
3316	Consumer Products: Hair Care Product - Conditioner (2020 Update)	510-506-6757-0000	2009
3317	Consumer Products: Hair Care Product - Shampoo (2020 Update)	510-506-6758-0000	2009
3318	Consumer Products: Other Hair Care Products (2020 Update)	510-506-6759-0000	2009
3319	Consumer Products: Hair Spray (2020 Update)	510-506-6760-0000	2009
3320	Consumer Products: Hair Mousses (2020 Update)	510-506-6765-0000	2009
3321	Consumer Products: Hair Shines (2020 Update)	510-506-6766-0000	2009
3322	Consumer Products: Hair Styling Product - Aerosol/Pump Spray (2020 Update)	510-506-6768-0000	2009
3323	Consumer Products: Hair Styling Product - All Other Forms (2020 Update)	510-506-6769-0000	2009
3324	Consumer Products: Nail Coatings (2020 Update)	510-506-6770-0000	2009

Profile Number	Profile Name	EIC	Effective Year
3325	Consumer Products: Nail Polish Removers (2020 Update)	510-506-6772-0000	2008
3326	Consumer Products: Rubbing Alcohol (2020 Update)	510-506-6780-0000	2009
3327	Consumer Products: Shaving Creams (2020 Update)	510-506-6781-0000	2009
3328	Consumer Products: Shaving Gels (2020 Update)	510-506-6782-0000	2010
3329	Consumer Products: Personal Hygiene Products (2020 Update)	510-506-6785-0000	2009
3330	Consumer Products: Personal Care Wipes (2020 Update)	510-506-6787-0000	2009
3331	Consumer Products: Laundry Detergent (2020 Update)	510-506-6790-0000	1997
3332	Consumer Products: Hand Dishwashing Soap (2020 Update)	510-506-6791-0000	1997
3333	Consumer Products: Heavy Duty Hand Cleaner or Soap (2020 Update)	510-506-6792-0000	2014
3334	Consumer Products: Hand Sanitizer (2020 Update)	510-506-6793-0000	2009
3335	Consumer Products: Brush Cleaner (2020 Update)	510-506-6795-0000	2009
3336	Consumer Products: Pressurized Gas Duster (2020 Update)	510-506-6796-0000	2011
3337	Consumer Products: Witch Hazel (2020 Update)	510-506-6797-0000	2009
3338	Consumer Products: Other Cleaners/Degreasers/Solvents (2020 Update)	510-506-6902-0000	2009
3339	Consumer Products: Other Auto/Veh/Marine Care Products (2020 Update)	510-506-6903-0000	2009
3340	Consumer Products: Other Fuels (2020 Update)	510-506-6904-0000	2009
3341	Consumer Products: Other Misc. Household Products (2020 Update)	510-506-6905-0000	2009
3342	Consumer Products: Other Personal Care Products (2020 Update)	510-506-6906-0000	2009
3343	Consumer Products: Miscl. Office and Art Supplies (2020 Update)	510-506-6907-0000	2009
3344	Consumer Products: Lawn and Garden Products (2020 Update)	510-506-6908-0000	2009
3345	Consumer Products: Other Air Fresheners (2020 Update)	510-506-6909-0000	2009

Profile Number	Profile Name	EIC	Effective Year
3346	Consumer Products: Various Dishwashing Products (2020 Update)	510-506-6789-0000	2000
3347	Consumer Products: Various Office Supply Products (2020 Update)	510-506-6922-0000	2000
3348	Consumer Products: Electronics Freeze Mist Spray (2020 Update)	510-506-6923-0000	2000
3349	Consumer Products: Various Pet Care Products (2020 Update)	510-506-6924-0000	2000
3350	Consumer Products: Preshave Products (2020 Update)	510-506-6928-0000	2000
3351	Consumer Products: Engine Starting Fluid (2020 Update)	510-506-6523-0000	2000
3352	Consumer Products: Other Arts and Crafts Supplies (2020 Update)	510-506-6578-0000	2000
3353	Consumer Products: Various Garden and Lawn Care Products (2020 Update)	510-506-6597-0000	2000
3354	Consumer Products: Other Antimicrobial Agents (2020 Update)	510-506-6599-0000	2000
3355	Consumer Products: Drain Opener (2020 Update)	510-506-6647-0000	2000
3357	Consumer Products: Baseboard Stripper (2020 Update)	510-506-6698-0000	2000
3358	Consumer Products: Various Scented Products (2020 Update)	510-506-6715-0000	2000
3359	Consumer Products: Other Odor Remover/Eliminator Products (2020 Update)	510-506-6718-0000	2000
3360	Consumer Products: Bath Oils/Beads/Capsules (2020 Update)	510-506-6728-0000	2000
3361	Consumer Products: Various Eyeglass and Contact Lens Care Products (2020 Update)	510-506-6734-0000	2000
3362	Consumer Products: Body or Baby Powder (2020 Update)	510-506-6738-0000	2000
3363	Consumer Products: External Analgesic Product (2020 Update)	510-506-6744-0000	2000
3364	Consumer Products: Various External Health Use Products (Including Other External-Use-Only OTC Drugs) (2020 Update)	510-506-6745-0000	2000
3365	Consumer Products: Thermal Protectant (2020 Update)	510-506-6753-0000	2000
3366	Consumer Products: Various Nail Care Products (2020 Update)	510-506-6775-0000	2000

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Profile Number	Profile Name	EIC	Effective Year
3367	Consumer Products: Soap Impregnated Scouring Pad (2020 Update)	510-506-6777-0000	2000
3368	Consumer Products: Various Make-Up Cosmetics (2020 Update)	510-506-6930-0000	2000
3369	Consumer Products: Mouthwash/Rinse (2020 Update)	510-506-6944-0000	2000
3370	Consumer Products: Various Oral Care Products (2020 Update)	510-506-6948-0000	2000
3371	Consumer Products: No Rinse Shampoo (2020 Update)	510-506-6950-0000	2000
3372	Consumer Products: Septic Tank Cleaner (2020 Update)	510-506-6955-0000	2000
3373	Consumer Products: Various Pool/Spa/Whirlpool/Jacuzzi Maintenance Products (2020 Update)	510-506-6958-0000	2000

(b) Aerosol Coatings (510-500-90##-0000)

Profile Number	Profile Name	EIC	Effective Year
1820	Aerosol Coatings: Clear Coatings (Unspecified) (2020 Update)	510-500-9051-0000	2003
1821	Aerosol Coatings: Flat Coatings (Unspecified) (2020 Update)	510-500-9059-0000	2003
1822	Aerosol Coatings: Fluorescent Coatings (2020 Update)	510-500-9080-0000	2003
1823	Aerosol Coatings: Metallic Pigmented Coatings (2020 Update)	510-500-9073-0000	2003
1824	Aerosol Coatings: Nonflat Coatings (Unspecified) (2020 Update)	510-500-9060-0000	2003
1825	Aerosol Coatings: Primers (Unspecified) (2020 Update)	510-500-9020-0000	2003
1826	Aerosol Coatings: Art Fixatives and Sealants (2020 Update)	510-500-9081-0000	2003
1827	Aerosol Coatings: Auto Body Primers (2020 Update)	510-500-9021-0000	2003
1828	Aerosol Coatings: Auto Bumper and Trim Coatings (2020 Update)	510-500-9082-0000	2003
1829	Aerosol Coatings: Exact Match Engine Enamel (2020 Update)	510-500-9083-0000	2003
1830	Aerosol Coatings: Exact Match Automotive Coatings (2020 Update)	510-500-9084-0000	2003
1831	Aerosol Coatings: Ground/Traffic/Marking Coatings (2020 Update)	510-500-9077-0000	2003
1832	Aerosol Coatings: High Temperature Coatings (2020 Update)	510-500-9071-0000	2003
1833	Aerosol Coatings: Vinyl/Fabric/Leather/Polycarb Coatings (2020 Update)	510-500-9085-0000	2003
1834	Aerosol Coatings: Coatings (Unspecified) (2020 Update)	510-500-9000-0000	2003