

SECTION 6.1

CONSUMER PRODUCTS

(Revised April 2000)

EMISSION INVENTORY SOURCE CATEGORY

Solvent Evaporation / Consumer Products

EMISSION INVENTORY CODES AND DESCRIPTION

510-500-90##-0000 (15 Codes) Aerosol Coatings

510-506-6###-0000 (120 Codes) Consumer Products

METHODS AND SOURCES

Consumer products comprise one of the largest solvent-use categories of total organic gases (TOG) and reactive organic gases (ROG) in California. Consumer products, as defined by the Health and Safety Code Section 41712, are any 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; and automotive specialty products. The definition of consumer products does not include furniture coatings or architectural coatings but does include aerosol coatings. The 1997 survey was needed to update the consumer products inventory in the SIP, to quantify the reductions already achieved by the VOC standards, to develop a voluntary reactivity-based program, and to determine the additional measures needed to attain federal ozone standards.

Three surveys provided the basis for the compilation of the latest inventory. These surveys include the ARB 1997 Consumer and Commercial Products Survey¹, the 1994/1995 Mid-term Measures Survey², and the 1990 U.S. EPA's Report to Congress (Survey)³. Data obtained from these surveys have been used to create the most comprehensive inventory on consumer products to date. These surveys are discussed below. A task group, consisting of ARB staff and representatives from the consumer products industry agreed that a comprehensive survey was necessary to update the SIP inventory. The Stationary Source Division (SSD) of the California Air Resources Board (ARB) conducted the Consumer and Commercial Products Survey for 1997 by sending out surveys to over 3,000 companies at the end of February 1998. The survey requested data on about 100 categories of consumer products. Based on previous efforts, the emissions are estimated to account for 70% of the entire consumer products

inventory. This survey coupled with the 1997 aerosol paint survey account for 80% of the consumer products inventory. The remaining 20% of the emissions are from numerous small categories which were included in the 1990 U.S. EPA survey and the 1994/1995 Mid-term Measures Survey. SSD decided that these categories would not be included in the ARB 1997 Consumer and Commercial Products Survey, but the emissions would be estimated from the 1990 U.S. EPA survey and grown to the 1997 calendar year. Extensive outreach efforts were made to maximize the market coverage of the 1997 Survey. SSD first performed numerous shelf surveys, conducted trade journal and Internet searches and scrutinized previous surveys to identify manufacturers and add them to a mailing list. Following the survey, shelf surveys were again performed, and a list of responding companies was scrutinized by trade associations and survey respondents to identify additional companies which had not responded. Non-responding companies were contacted and subsequently surveyed. The extensive outreach resulted in an estimated 90% market coverage in most categories.

For categories where the coverage was determined to be low, adjustments were made by a variety of methods, including survey data, bar code data, estimates from industry experts, etc. These special adjustments were made in only 8 of the 100 categories surveyed. The eight categories that special adjustments were made are bug and tar removers; floorwax strippers; non-selective herbicides/defoliant; undercoatings; automotive windshield washer fluids; paint removers or strippers; engine degreasers; and charcoal lighter materials. The other categories were adjusted to bring the market coverage up to 100%. The U.S. EPA, in compiling their emissions estimates for their 1990 survey, increased the sales data in most categories to account for incomplete market coverage. Data from the survey that pertain to other area source categories such as paint thinners and large-size containers of adhesives were not included in the consumer products emission inventory.

The SSD Mid-term Measures Survey was used to obtain a base line emission inventory for the Mid-term Measures regulation. Since the Consumer and Commercial Products Survey for 1997 did not include a limited number of categories, therefore the data from the Mid-term Measures survey are used for three categories. These categories are laundry detergents (EIC 510,506,6790,0000), hand dish soaps (EIC 510,506,6791,0000) and heavy-duty hand cleaner (EIC 510,506,6792,0000).

The categories not covered by either the Mid-term Measures Survey or the Consumer and Commercial Products Survey were taken from the 1990 U.S. EPA's Report to Congress. The emissions were grown to 1997 by the population growth ratio from 1990 to 1997. Examples of the products included in this category are arts and craft supplies, non-pesticidal veterinary and pet products, and office supplies. These small products are under combined small categories (EIC 510,506,6900,0000). For this category, the process rate was not estimated due to complexity of the categories and the many adjustments that were made to correct the emissions⁴. The process rate for this

category equals the emissions, thus alerting the users of the emission inventory that a specific process rate was not included in this inventory.

To estimate the TOG emissions from the SSD survey, the 1997 California sales for each product was multiplied by the market adjustment factor for each category and then multiplied by the percent of each compound that is in the TOG definition, in that product. The fraction of reactive organic gas (FROG) values were derived from the relative amounts of reactive organic gas (ROG) compounds versus the low reactive compounds designated as "exempt" from the ROG definition. Low vapor pressure VOC (LVP-VOC) hydrocarbons are included in the ROG and TOG estimates to the greatest extent possible, based on the survey data. However, the coverage of oxygenated LVP-VOC compounds in the TOG and ROG is known to be incomplete, due to limitations and uncertainties in using the survey data from each survey. The data used for the TOG and ROG estimation were obtained from the speciation data from the surveys.

Each product TOG total was added to the category TOG total. A down-the-drain factor was applied to EIC 510,506,6790,0000 laundry detergents (44.78%) and EIC 510,506,6791,0000 hand dish soaps (12.5%) only, based on ethanol. The down the drain factors are applied to the emissions thus reducing the emissions because it is assumed the down the drain portion of the emissions are not in the air. A combustion factor for EIC 510,506,6720,0000 charcoal lighter material is 47%, which means that only 47% of the lighter fluid is evaporated into the air.

Some of the categories were split to match regulatory limits. For example, the antiperspirant category was split into aerosol and solid to make it easier to track the regulatory limits of the aerosol antiperspirant category.

ASSUMPTIONS

1. The SSD survey and the adjusted U.S. EPA survey represents the consumer products emissions inventory for 1997.
2. The down-the-drain factor for hand dish soaps and laundry detergents and the combustion factor for charcoal lighter fluid can be applied as environmental fate factors.
3. Statewide emissions are apportioned to each county by the ratio of the county population and the statewide population.
4. The products are categorized similarly to the consumer products regulation where there wouldn't be confidentiality concerns with too few products in a category.

5. The number of units of products sold equals the number of units used, and all products produced for one year are sold in that year.
6. The entire quantity of organic solvent contained in the consumer products inventory is ultimately emitted into the atmosphere, with the exception for those products with down-the-drain and combustion factors.

COMMENTS AND RECOMMENDATIONS

Surveys should be conducted to obtain more accurate spatial and temporal use data for California.

CHANGES IN METHOD AND EMISSION ESTIMATES

The main change in this method is that the surveys that are used are more comprehensive than past surveys. A significant amount of effort went into assuring that the quality of the data truly represented the consumer products market in California.

DIFFERENCES BETWEEN 1997 AND 1987 EMISSION ESTIMATES

The 1997 emission estimates are larger than the 1987 estimates due to a more comprehensive survey which captured the consumer products sold in California. In this new survey, we were able to estimate TOG and ROG emissions where the past surveys we could only estimate volatile organic compounds (VOC).

TEMPORAL ACTIVITY

The annual activity is uniform. The daily activity occurs primarily during the daylight hours.

SAMPLE CALCULATIONS

To estimate the TOG emissions from the hair spray category for Siskiyou County, the following equation is used:

Process Rate x Emission Factor x Population Ratio = Emissions

Process Rate = California Sales for hair spray for 1997 = 18,931 tons/year

Emission Factor = TOG Fraction for hair spray = 0.7915

Population Ratio = Siskiyou County population / California population
= 44,688 / 33,251,809

18,931 tons/year x 0.7915 x (44,688 / 33,251,809) = 20.1 tons/year

REFERENCES

1. Air Resources Board, 1997 Consumer Products Survey, (March 2000).
2. U.S. EPA, Study of Volatile Organic Compound Emissions from Consumer and Commercial Products, Report to Congress, EPA-453/R-94-066-A, (March 1995).
3. Air Resources Board, Initial Statement of Reasons for Proposed Amendments to the California Consumer Products Regulation, (September 10, 1999).
4. David Julian, Air Resources Board, Stationary Source Division, Sacramento, CA. Personal communication (April 2000).
5. Air Resources Board, Memorandum: Consumer Products "Down-The-Drain" Factors, from Genevieve Shiroma to Linda Murchison, (Fall 1997).

UPDATED BY

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TABLE I
1997 EMISSIONS FOR CONSUMER PRODUCTS

SOURCE CATEGORY	MATERIAL	EIC	CES	PR	Tons/Year		Tons/Day	
					TOG	ROG	TOG	ROG
AEROSOL COATINGS								
	ART FIXATIVES AND SEALANTS	510-500-9081-0000	86090	120.5	104.2	73.0	0.29	0.20
	AUTO BODY PRIMERS	510-500-9021-0000	86017	182.6	135.9	91.4	0.37	0.25
	AUTO BUMPER AND TRIM COATINGS	510-500-9082-0000	86108	131.4	117.7	80.2	0.32	0.22
	CLEAR COATINGS (UNSPECIFIED)	510-500-9051-0000	86025	584.0	499.3	346.6	1.37	0.95
	COATINGS (UNSPECIFIED)	510-500-9000-0000	84889	711.7	555.5	354.5	1.52	0.97
	EXACT MATCH AUTOMOTIVE COATINGS	510-500-9084-0000	86124	266.6	230.0	138.8	0.63	0.38
	EXACT MATCH ENGINE ENAMEL	510-500-9083-0000	86116	153.5	128.2	76.5	0.35	0.21
	FLAT COATINGS (UNSPECIFIED)	510-500-9059-0000	86033	1,164.5	903.4	587.6	2.48	1.61
	FLUORESCENT COATINGS	510-500-9080-0000	86082	119.6	85.7	79.1	0.23	0.22
	GROUND/TRAFFIC/MARKING COATINGS	510-500-9077-0000	86074	1,726.6	1,106.0	1,033.1	3.03	2.83
	HIGH TEMPERATURE COATINGS	510-500-9071-0000	86058	266.6	227.1	179.0	0.62	0.49
	METALLIC PIGMENTED COATINGS	510-500-9073-0000	86066	912.3	732.9	646.3	2.01	1.77
	NONFLAT COATINGS (UNSPECIFIED)	510-500-9060-0000	86041	6,048.1	4,783.8	3,186.5	13.11	8.73
	PRIMERS (UNSPECIFIED)	510-500-9020-0000	86009	1,434.2	1,044.9	729.9	2.86	2.00
	VINYL/FABRIC/LEATHER/POLYCARB COATINGS	510-500-9085-0000	86132	127.3	117.9	80.0	0.32	0.22
	Subtotal				10,772.5	7,682.4	29.51	21.05
CONSUMER PRODUCTS								
	ADHESIVE REMOVER	510-506-6582-0000	88062	241.3	146.4	125.2	0.40	0.34
	AEROSOL ADHESIVE (INCLUDING INDUSTRIAL)	510-506-6508-0000	87742	1,042.7	789.4	657.5	2.16	1.80
	AEROSOL COOKING SPRAYS	510-506-6721-0000	88633	1,271.3	229.4	229.4	0.63	0.63
	ARTS AND CRAFTS ADHESIVES	510-506-6502-0000	87684	40.7	19.3	18.9	0.05	0.05
	ASTRINGENTS/TONERS	510-506-6740-0000	88682	7,804.1	760.6	760.5	2.08	2.08
	AUTO CARPET AND UPHOLSTERY CLEANERS - AEROSOL	510-506-6531-0000	87809	373.8	37.3	37.3	0.10	0.10
	AUTO CARPET AND UPHOLSTERY CLEANERS - NON-AEROSOL	510-506-6532-0000	87817	8,540.8	37.7	37.5	0.10	0.10
	AUTOMOTIVE ADHESIVES	510-506-6503-0000	87692	324.6	25.3	24.1	0.07	0.07
	AUTOMOTIVE BRAKE CLEANERS	510-506-6551-0000	87924	4,777.5	4,503.0	2,046.6	12.34	5.61
	AUTOMOTIVE HARD PASTE WAXES	510-506-6533-0000	87825	513.3	327.7	327.3	0.90	0.90
	AUTOMOTIVE INSTANT DETAILERS	510-506-6534-0000	87833	552.7	10.9	10.9	0.03	0.03
	AUTOMOTIVE RUBBING OR POLISHING COMPOUNDS	510-506-6538-0000	87874	1,680.0	333.6	332.8	0.91	0.91
	AUTOMOTIVE UNDERCOATINGS - AEROSOLS	510-506-6558-0000	87999	532.4	263.0	244.9	0.72	0.67
	AUTOMOTIVE UNDERCOATINGS - NON-AEROSOLS	510-506-6559-0000	88005	327.8	13.5	13.4	0.04	0.04
	AUTOMOTIVE WAXES/POLISHES/SEALANTS/GLAZES	510-506-6535-0000	87841	23,528.3	647.7	625.2	1.77	1.71
	AUTOMOTIVE WINDSHIELD WASHER FLUIDS	510-506-6560-0000	88013	18,689.6	3,026.0	3,026.0	8.29	8.29
	BATHROOM AND TILE CLEANERS - AEROSOLS	510-506-6661-0000	88401	2,733.5	177.4	177.4	0.49	0.49
	BATHROOM AND TILE CLEANERS - NON-AEROSOLS	510-506-6662-0000	88419	17,878.3	64.1	64.1	0.18	0.18
	BATTERY CLEANERS	510-506-6550-0000	87916	39.0	9.7	9.6	0.03	0.03
	BUG AND TAR REMOVERS	510-506-6530-0000	87791	929.4	213.4	213.4	0.58	0.58
	CARBURETOR OR FUEL-INJECTION AIR INTAKE CLEANERS	510-506-6552-0000	87932	3,562.8	3,102.9	2,426.8	8.50	6.65

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					TOG	ROG	TOG	ROG
	CARPET AND TILE ADHESIVES	510-506-6504-0000	87700	16,360.3	2.1	1.2	0.01	0.00
	CARPET DEODORIZERS	510-506-6637-0000	88252	2,971.5	17.9	17.9	0.05	0.05
	CHARCOAL LIGHTER MATERIALS	510-506-6720-0000	88625	1,740.3	1,461.3	1,461.3	4.00	4.00
	COMBINED SMALL CATEGORIES	510-506-6900-0000	88872	9,073.4	9,073.4	8,212.3	24.86	22.50
	CONSTRUCTION AND PANEL ADHESIVES	510-506-6505-0000	87718	18,546.7	427.5	361.8	1.17	0.99
	CONTACT ADHESIVE	510-506-6506-0000	87726	4,962.4	101.4	95.4	0.28	0.26
	CRAWLING BUG INSECTICIDES - AEROSOLS	510-506-6615-0000	88179	4,932.1	3,164.9	3,161.4	8.67	8.66
	CRAWLING BUG INSECTICIDES - NON-AEROSOLS	510-506-6616-0000	88187	7,723.8	87.7	87.7	0.24	0.24
	DISINFECTANTS	510-506-6590-0000	88070	483,627.5	2,450.2	2,450.2	6.71	6.71
	DOUBLE PHASE AEROSOL AIR FRESHENERS	510-506-6711-0000	88583	5,526.8	1,670.5	1,668.7	4.58	4.57
	DUAL PURPOSE AIR FRESHENER/DISINFECTANT	510-506-6712-0000	88591	58.3	9.3	9.3	0.03	0.03
	DUSTING AIDS - AEROSOLS	510-506-6680-0000	88450	486.1	166.4	166.4	0.46	0.46
	DUSTING AIDS - NON-AEROSOLS	510-506-6681-0000	88468	9,457.5	64.7	64.7	0.18	0.18
	ELECTRONIC CLEANER	510-506-6581-0000	88054	315.3	293.9	70.7	0.81	0.19
	ENGINE DEGREASERS - AEROSOLS	510-506-6553-0000	87940	1,772.5	1,037.1	1,006.2	2.84	2.76
	ENGINE DEGREASERS - NON-AEROSOLS	510-506-6554-0000	87957	2,528.7	47.8	39.5	0.13	0.11
	FABRIC PROTECTANTS	510-506-6640-0000	88286	633.4	207.5	202.2	0.57	0.55
	FLEA AND TICK INSECTICIDE	510-506-6610-0000	88120	643.4	104.9	104.9	0.29	0.29
	FLEXIBLE FLOOR WAX/POLISH	510-506-6682-0000	88476	18,308.7	488.3	488.3	1.34	1.34
	FLOOR WAX STRIPPERS	510-506-6650-0000	88294	65,857.1	1,466.0	1,462.0	4.02	4.01
	FLYING INSECT INSECTICIDE - AEROSOLS	510-506-6611-0000	88138	726.9	1,726.1	1,725.9	4.73	4.73
	FLYING INSECT INSECTICIDE - NON-AEROSOLS	510-506-6612-0000	88146	1,567.4	67.7	67.7	0.19	0.19
	FOOT POWDERS	510-506-6783-0000	88823	164.9	31.5	31.5	0.09	0.09
	FUNGICIDES AND NEMATICIDES	510-506-6627-0000	88229	22,548.7	25.7	25.7	0.07	0.07
	FURNITURE MAINTENANCE PRODUCTS - AEROSOLS	510-506-6685-0000	88500	3,670.5	758.7	741.6	2.08	2.03
	FURNITURE MAINTENANCE PRODUCTS - OTHER FORM	510-506-6686-0000	88518	1,588.1	65.2	65.1	0.18	0.18
	GENERAL PURPOSE ADHESIVE	510-506-6507-0000	87734	3,463.0	68.5	61.1	0.19	0.17
	GENERAL PURPOSE CLEANERS - AEROSOLS	510-506-6651-0000	88302	595.0	58.6	58.6	0.16	0.16
	GENERAL PURPOSE CLEANERS - NON-AEROSOLS	510-506-6652-0000	88310	26,876,940.6	3,231.9	3,206.0	8.85	8.78
	GENERAL PURPOSE DEGREASERS - AEROSOLS	510-506-6653-0000	88328	118.0	99.9	99.1	0.27	0.27
	GENERAL PURPOSE DEGREASERS - NON-AEROSOLS	510-506-6654-0000	88336	84,093.5	799.1	746.0	2.19	2.04
	GLASS CLEANERS - AEROSOLS	510-506-6655-0000	88344	891.0	81.2	81.2	0.22	0.22
	GLASS CLEANERS - NON-AEROSOLS	510-506-6656-0000	88351	36,307.0	1,270.8	1,270.4	3.48	3.48
	GRAFFITI REMOVERS	510-506-6570-0000	88021	470.5	73.9	65.9	0.20	0.18
	HAIR MOUSSES	510-506-6765-0000	88732	3,061.8	313.7	282.4	0.86	0.77
	HAIR SHINES	510-506-6766-0000	88740	164.3	110.0	79.5	0.30	0.22
	HAIR SPRAY	510-506-6760-0000	88724	18,930.7	14,983.6	14,646.5	41.05	40.13
	HAIR STYLING GELS	510-506-6767-0000	88757	8,575.1	141.6	131.5	0.39	0.36
	HAND AND BODY LOTIONS	510-506-6741-0000	88690	18,773.1	164.4	111.6	0.45	0.31

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SOURCE CATEGORY	MATERIAL	EIC	CES	PR	Tons/Year		Tons/Day	
					TOG	ROG	TOG	ROG
	HAND DISHWASHING SOAP	510-506-6791-0000	88856	110,490.7	547.8	547.8	1.50	1.50
	HEAVY DUTY HAND CLEANER OR SOAP	510-506-6792-0000	88864	6,921.7	1,094.5	1,094.5	3.00	3.00
	HOUSEHOLD CARPET AND UPHOLSTERY CLEANERS - A	510-506-6635-0000	88237	2,140.9	167.4	167.4	0.46	0.46
	HOUSEHOLD CARPET AND UPHOLSTERY CLEANERS - H	510-506-6636-0000	88245	493,653.1	246.4	246.4	0.68	0.68
	INSECT REPELLANTS - AEROSOLS	510-506-6625-0000	88203	180.5	111.9	111.9	0.31	0.31
	INSECT REPELLANTS - NON-AEROSOLS	510-506-6626-0000	88211	988.3	889.3	889.3	2.44	2.44
	INSECTICIDE FOGGERS	510-506-6617-0000	88195	884.2	677.6	673.4	1.86	1.84
	LAUNDRY DETERGENT	510-506-6790-0000	88849	180,899.9	1,825.3	1,825.3	5.00	5.00
	LAUNDRY PREWASH - AEROSOLS/SOLIDS	510-506-6670-0000	88427	491.0	415.4	415.4	1.14	1.14
	LAUNDRY PREWASH - OTHER FORMS	510-506-6671-0000	88435	14,645.1	65.6	65.6	0.18	0.18
	LAUNDRY STARCHES, SIZINGS, ETC.	510-506-6672-0000	88443	10,847.2	461.0	461.0	1.26	1.26
	LAWN AND GARDEN INSECTICIDES	510-506-6614-0000	88161	114,859.2	796.4	750.9	2.18	2.06
	LIQUID/PUMP SPRAY AIR FRESHENERS	510-506-6713-0000	88609	16,607.3	195.4	195.3	0.54	0.54
	METAL POLISHES/CLEANSERS	510-506-6657-0000	88369	1,766.3	175.2	172.9	0.48	0.47
	MULTI-PURPOSE LUBRICANT	510-506-6700-0000	88534	5,324.1	1,814.4	1,780.8	4.97	4.88
	MULTIPURPOSE SOLVENTS	510-506-6580-0000	88047	7,696.1	7,003.6	5,499.9	19.19	15.07
	NAIL BASE COATS, UNDERCOATS	510-506-6771-0000	88773	58.8	38.0	38.0	0.10	0.10
	NAIL POLISH	510-506-6770-0000	88765	413.4	270.4	270.4	0.74	0.74
	NAIL POLISH REMOVERS	510-506-6772-0000	88781	1,481.2	1,129.6	309.1	3.09	0.85
	NON-RESILIENT FLOOR WAX/POLISH	510-506-6683-0000	88484	595.3	25.9	25.9	0.07	0.07
	NON-SELECTIVE HERBICIDES/DEFOLIANTS	510-506-6600-0000	88104	1,082,709.6	1,478.0	1,478.0	4.05	4.05
	OVEN CLEANERS - AEROSOLS/PUMPS	510-506-6658-0000	88377	2,204.6	162.8	162.8	0.45	0.45
	OVEN CLEANERS - LIQUID AND OTHER	510-506-6659-0000	88385	2,373.0	16.6	16.6	0.05	0.05
	PAINT REMOVERS OR STRIPPERS	510-506-6571-0000	88039	6,296.8	5,464.4	2,300.0	14.97	6.30
	PENETRANT	510-506-6702-0000	88559	637.0	545.3	539.9	1.49	1.48
	PERSONAL FRAGRANCE PRODUCT (FRAGRANCE <= 20%)	510-506-6750-0000	88708	4,250.6	3,127.3	3,122.9	8.57	8.56
	PERSONAL FRAGRANCE PRODUCT (FRAGRANCE > 20%)	510-506-6751-0000	88716	155.7	139.6	139.5	0.38	0.38
	PERSONAL HYGIENE SPRAYS	510-506-6784-0000	88831	220.1	200.2	200.1	0.55	0.55
	PIPE CEMENTS AND PRIMERS	510-506-6509-0000	87759	1,518.0	501.0	433.5	1.37	1.19
	RUBBER AND VINYL PROTECTANTS - AEROSOLS	510-506-6536-0000	87858	291.7	37.4	36.5	0.10	0.10
	RUBBER AND VINYL PROTECTANTS - NON-AEROSOLS	510-506-6537-0000	87866	6,629.3	1,446.5	560.2	3.96	1.53
	RUBBING ALCOHOL	510-506-6780-0000	88799	6,210.4	3,916.2	3,910.7	10.73	10.71
	SANITIZERS	510-506-6591-0000	88088	191,192.8	36.5	36.5	0.10	0.10
	SEALANTS & CAULKING COMPOUNDS	510-506-6520-0000	87775	22,672.6	899.3	703.4	2.46	1.93
	SELECTIVE HERBICIDES/DEFOLIANTS	510-506-6601-0000	88112	59,855.9	45.1	45.1	0.12	0.12
	SHAVING CREAMS	510-506-6781-0000	88807	3,547.6	138.7	138.0	0.38	0.38
	SHAVING GELS	510-506-6782-0000	88815	3,281.6	235.7	234.9	0.65	0.64
	SHOE CARE PRODUCTS	510-506-6687-0000	88526	814.0	371.1	365.5	1.02	1.00
	SILICONE BASED MULTI-PURPOSE LUBRICANT	510-506-6701-0000	88542	371.8	319.7	305.4	0.88	0.84

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SOURCE CATEGORY	MATERIAL	EIC	CES	PR	Tons/Year		Tons/Day	
					TOG	ROG	TOG	ROG
	SINGLE PHASE AEROSOL AIR FRESHENERS	510-506-6710-0000	88575	275.6	177.8	83.0	0.49	0.23
	SOLID/GEL AIR FRESHENERS	510-506-6714-0000	88617	6,554.6	1,036.3	1,036.3	2.84	2.84
	SOLVENT PARTS CLEANER - AEROSOLS	510-506-6555-0000	87965	272.8	271.8	265.6	0.74	0.73
	SOLVENT PARTS CLEANER - NON-AEROSOLS	510-506-6556-0000	87973	1,084.7	412.8	327.9	1.13	0.90
	SPECIALTY LUBRICANT	510-506-6703-0000	88567	4,890.2	240.0	235.1	0.66	0.64
	SPOT REMOVERS - AEROSOLS	510-506-6638-0000	88260	323.7	38.5	35.2	0.11	0.10
	SPOT REMOVERS - NON-AEROSOLS	510-506-6639-0000	88278	13,862.3	224.5	222.4	0.62	0.61
	STERILANTS (NOT INCLUDING ETHYLENE OXIDE)	510-506-6592-0000	88096	763.6	19.4	19.4	0.05	0.05
	TIRE CLEANERS	510-506-6539-0000	87882	1,236.1	217.8	122.9	0.60	0.34
	TIRE SEALANTS AND INFLATORS	510-506-6557-0000	87981	1,585.8	830.9	326.0	2.28	0.89
	TOILET BOWL CLEANERS	510-506-6660-0000	88393	39,458.2	53.7	53.7	0.15	0.15
	UNDERARM ANTIPERSPIRANTS - AEROSOLS	510-506-6730-0000	88641	1,712.6	1,284.9	711.3	3.52	1.95
	UNDERARM ANTIPERSPIRANTS - NON-AEROSOLS	510-506-6731-0000	88658	6,648.0	2,191.8	128.0	6.00	0.35
	UNDERARM DEODORANTS - AEROSOLS	510-506-6732-0000	88666	378.4	327.5	327.4	0.90	0.90
	UNDERARM DEODORANTS - NON-AEROSOLS	510-506-6733-0000	88674	1,535.9	245.1	207.0	0.67	0.57
	VINYL AND LEATHER CLEANERS	510-506-6540-0000	87890	131.6	16.7	15.4	0.05	0.04
	WASP AND HORNET INSECTICIDE	510-506-6613-0000	88153	899.8	695.1	692.1	1.90	1.90
	WHEEL CLEANERS	510-506-6541-0000	87908	1,753.0	44.8	44.6	0.12	0.12
	WOOD FILLERS	510-506-6521-0000	87783	938.4	102.6	65.2	0.28	0.18
	WOOD FLOOR WAX/POLISH	510-506-6684-0000	88492	470.1	264.5	264.5	0.72	0.72
	WOODWORKING GLUES	510-506-6510-0000	87767	1,114.0	23.7	23.7	0.06	0.06
	Subtotal				106,905.9	91,515.7	292.89	250.73
	Grand total			30,299,576.1	117,678.4	99,198.1	322.41	271.78