

Organic Gas Speciation Profile for Headspace Vapor of E10 Winter Gasoline Fuel (OG695)

Wenli Yang, PhD, PE

Air Quality Planning and Science Division

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1 Introduction

California's Phase 3 Reformulated Gasoline regulations require refiners to produce gasoline that meets eight specifications to reduce air pollution from the gasoline used in motor vehicles. One of the eight specifications is a standard for Reid Vapor Pressure (RVP) which is designed to reduce evaporative emissions during the summer months when ambient temperatures are their highest [1]. The current CARB organic gas speciation profile for headspace vapor of E10 gasoline (containing 10% vol ethanol or 3.5% wt oxygen) is OG691, which was created specifically for summer-grade fuel [2]. Since the compositions of summer-grade fuel and winter-grade fuel are different due to the RVP change, it is not appropriate to use the summer-grade profile OG691 for winter.

In this work, a new headspace vapor profile, OG695, was generated for winter-grade E10 gasoline by applying vapor-liquid equilibrium theory to the winter gasoline profile OG694. The new gasoline profile will replace OG691 for the categories of petroleum storage losses of gasoline specified as RVP 10 PSI or RVP 13 PSI (Table A1-1) for all seasons and for the on-road vehicle resting losses and off-road equipment evaporative categories associated with unspecified gasoline (Table A1-2) during the months without RVP regulatory control. The new profile OG695 will be used for 2010 and later years when E10 is used in California.

2 Methodology

The winter-grade E10 headspace vapor profile is developed by using vapor-liquid equilibrium theory applied to winter-grade E10 liquid gasoline profile OG694. The methodology of the profile development is the same as the one used to develop summer-grade E10 headspace vapor profile OG691 [3].

Partial pressures p_i of organic species i present in gasoline headspace vapors were predicted using Equation 1:

$$p_i = \gamma_i x_i p_i^o \quad (1)$$

where γ_i is the liquid-phase activity coefficient of species i , x_i is the mole fraction of species i in liquid fuel, and p_i^o is the vapor pressure of species i in pure liquid form. Activity coefficients (γ_i) for E10 fuel are listed in Harley et al [4]. Mole fractions (x_i) are converted from the weight

fractions of the liquid fuel profile by dividing by the molecular weights for each compound. Pure liquid vapor pressures are estimated as a function of temperature using the Wagner Equation (Equation 2) [5]:

$$\ln p_r^o = \frac{a\tau + b\tau^{1.5} + c\tau^{2.5} + d\tau^5}{T_r} \quad (2)$$

where $p_r^o = p_i^o/p_c$ is reduced vapor pressure, $T_r = T/T_c$ is reduced temperature, p_c and T_c are critical point pressure and temperature, and $\tau = 1 - T_r$. Values of p_c , T_c , a , b , c , and d for many of the species are obtained from Appendix A of Poling et al. [5]. Antoine's Equation is also used to predict the vapor pressures for other compounds [5, 6]. In this work, a temperature of 310.9K (100F) is chosen for T in the predictions.

The total vapor pressure is then calculated by summing up the partial pressure of each species in headspace vapor (p_i) obtained as described above. The headspace vapor speciation profile is finalized by converting the mole fraction to weight fraction for each compound.

3 Results and Discussion

The details of profile OG695 are presented in Appendix 2. The most abundant species in the headspace vapor of winter-grade E10 gasoline include: n-butane (31.9%), isopentane (22.8%), isobutane (7.4%), n-pentane (6.2%) and ethanol (5.7%). The ratio of TOG/THC (total organic gases/total hydrocarbon) is 1.072, which can be used to convert THC emissions to actual weight TOG emissions. The ratio of ROG/TOG (reactive organic gases/total organic gases) for OG695 is 1.0000.

The winter-grade profile (OG695) contains much higher butane compared with the summer-grade E10 headspace vapor profile (OG691): 31.9% vs. 8.6% (Figure 1). This difference is caused by the different Reid Vapor Pressures (RVP) of the two liquid fuels. As mentioned previously, California's standards mandate summer gasoline with RVP 7.0 PSI or lower to limit ground-level ozone formation [1]. Winter fuels have higher RVP which evaporate more easily than summer fuels with lower RVP. Although there is only 3.7% more butane in the winter fuel profile (OG694) than the summer fuel profile (OG692) [7, 8], the difference in the vapor phase is much greater due to the high volatility of butane.

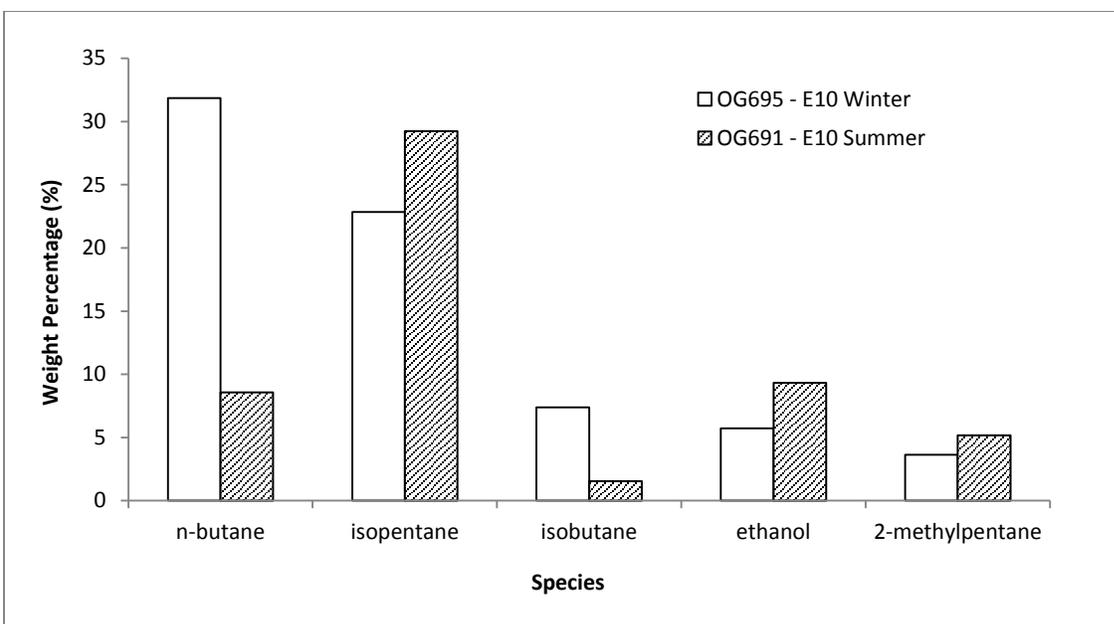


Figure 1. Comparison of selected species in profiles OG695 and OG691

4 Estimated Impacts of the Profile Update on the Emission Inventory

The newly-developed profile OG695 will be assigned to 2010 and later years when E10 is used in California. This winter-grade headspace vapor profile will replace the current profile (OG691) for the categories associated with gasoline fuels specified as RVP-10 PSI or RVP-13PSI (Table A1-1). For the categories with unspecified gasoline (Table A1-2), OG695 will only be used to replace OG691 during the months without RVP regulatory control (i.e. winter). It should be noted that the control period varies for different air basins [1].

Based on CEPAM [9] data (California 2016 Ozone SIP Baseline Emission Projection, Version 1.00), statewide 2012 annual average TOG emissions for the related categories with unspecified gasoline (Table A1-2) are 149.70 tons/day, which is 2.6% of the total statewide TOG emissions (natural sources are excluded). Since the ratio of ROG/TOG of OG695 is 1.0000, the statewide 2012 ROG emissions of the above categories will be 149.70 tons/day, which is the same as the ROG estimation made base on the summer vapor profile OG691 (ROG/TOG=1.0000). The ozone forming potential (OFP) calculated according to the SAPRC07 mechanism [10] is 1.95 for OG695, 20.08% lower than the OFP of OG691. The use of the new winter profile in place of the summer profile for winters will cause a 42.57% and 41.46% decrease in benzene and toluene emissions, respectively (Table 1).

Table 1. Changes on emissions of organic gas species for gasoline headspace vapor related categories (2012)

Statewide Annual Ave. Emissions	OG691 [Current Profile] (tons/day)	OG695 [New Profile] (tons/day)	Change		
			Emissions(tons/day)	Percentage	
ROG	149.70	149.70	0	0	
Ozone forming potential MIR (g O ₃ /g ORG)	2.44	1.95	-0.49	-20.08%	
Toxics	Benzene	2.02	1.16	-0.86	-42.57%
	Toluene	0.82	0.48	-0.34	-41.46%

5 Version Control

This section will be completed after management approval and after the CEIDARS FRACTION table and ORGOFILE table are updated. Version information from CEIDARS FRACTION table will be copied here.

References:

1. California Code of Regulations, The California Reformulated Gasoline Regulations, Title 13, Sections 2250-2273.5. In California Air Resources Board, 2008.
2. California Air Resources Board Main Speciation Profiles. In December 12, 2014 ed.; California Air Resources Board: 2015.
3. Yang, W., Organic Gas Speciation Profile (OG691) for Headspace Vapor of E10 Summer Gasoline Fuel. In California Air Resources Board: Sacramento, CA, 2012.
4. Harley, R. A.; Coulter-Burke, S. C.; Yeung, T. S., Relating Liquid Fuel and Headspace Vapor Composition for California Reformulated Gasoline Samples Containing Ethanol. *Environmental Science & Technology* **2000**, *34*, (19), 4088-4094.
5. Poling, B. E.; Prausnitz, J. M.; O'Connell, J. P., *The Properties of Gases and Liquids*. Fifth ed.; McGraw-Hill, Inc.: 2001.
6. Reid, R. C.; Prausnitz, J. M.; Poling, B. E., *The Properties of Gases and Liquids*. McGraw-Hill, Inc.: 1987; p 741.
7. Yang, W. *Organic Gas Speciation Profile for E10 Summer Gasoline Fuel - 2013 Update (OG692)*; California Air Resources Board: Sacramento, CA, 2013.
8. Yang, W., Organic Gas Speciation Profile (OG694) for E10 Winter Liquid Gasoline. In California Air Resources Board: Sacramento, CA, 2014.

9. CEPAM. In California Air Resources Board: 2015.
10. California Code of Regulations, Regulation for Reducing Emissions from Consumer Products, Title 17, Sections 94507-94517. In California Air Resources Board, 2010.

Appendix 1. EICs/SCCs associated with headspace vapor gasoline speciation profile

Table A1-1. SCCs/EICs associated with gasoline specified as RVP 10 or RVP 13

<i>SCC/EIC</i>	<i>NAMES</i>			
40301001	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 13	67K BBL-BREATHING
40301002	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 10	67K BBL-BREATHING
40301004	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 13	250K BBL-BREATHNG
40301005	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 10	250K BBL-BREATHNG
40301007	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 13	WORKING LOSS
40301008	PETROLEUM STORAGE	FIXED ROOF TANKS	GASOLINE-RVP 10	WORKING LOSS
40301101	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 13	67K BBL-STAND LOS
40301102	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 10	67K BBL-STAND LOS
40301104	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 13	250K BBL-STAND LS
40301105	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 10	250K BBL-STAND LS
40301201	PETROLEUM STORAGE	VAR.VAPOR SP.TNKS	GASOLINE-RVP 13	FILLING LOSS
40301202	PETROLEUM STORAGE	VAR.VAPOR SP.TNKS	GASOLINE-RVP 10	FILLING LOSS
40400101	BULK TERMINALS	FIXED ROOF TANKS	GASOLINE-RVP 13	67K BBL-BREATHING
40400102	BULK TERMINALS	FIXED ROOF TANKS	GASOLINE-RVP 10	67K BBL-BREATHING
40400104	BULK TERMINALS	FIXED ROOF TANKS	GASOLINE-RVP 13	250K BBL-BREATHNG
40400107	BULK TERMINALS	FIXED ROOF TANKS	GASOLINE-RVP 13	WORKING LOSS
40400108	BULK TERMINALS	FIXED ROOF TANKS	GASOLINE-RVP 10	WORKING LOSS
40400110	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 13	67K BBL-STAND LOS
40400111	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 10	67K BBL-STAND LOS
40400113	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 13	250K BBL-STAND LS
40400114	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 10	250K BBL-STAND LS
40400141	BULK TERMINALS	EXT FLT RF W/SEC SL	GASOLINE-RVP 13	STANDING LOSS
40400142	BULK TERMINALS	EXT FLT RF W/SEC SL	GASOLINE-RVP 10	STANDING LOSS
40400172	BULK TERMINALS	INT FLT RF W/SEC SL	GASOLINE-RVP 10	STANDING LOSS

40400201	BULK PLANTS	FIXED ROOF TANKS	GASOLINE-RVP 13	67K BBL-BREATHING
40400202	BULK PLANTS	FIXED ROOF TANKS	GASOLINE-RVP 10	67K BBL-BREATHING
40400204	BULK PLANTS	FIXED ROOF TANKS	GASOLINE-RVP 13	WORKING LOSS
40400205	BULK PLANTS	FIXED ROOF TANKS	GASOLINE-RVP 10	WORKING LOSS
40400208	BULK PLANTS	FLOAT ROOF TANKS	GASOLINE-RVP 10	67K BBL-STAND LOS
40400262	BULK TERMINALS	INT FLT RF W/PRIM SL	GASOLINE-RVP 10	STANDING LOSS
40400401	PETROLEUM STORAGE	UNDERGROUND TANKS	GASOLINE-RVP 13	BREATHING LOSS
40400402	PETROLEUM STORAGE	UNDERGROUND TANKS	GASOLINE-RVP 13	WORKING LOSS
40400403	PETROLEUM STORAGE	UNDERGROUND TANKS	GASOLINE-RVP 10	BREATHING LOSS
40400404	PETROLEUM STORAGE	UNDERGROUND TANKS	GASOLINE-RVP 10	WORKING LOSS
32032211200000	PETROLEUM REFINING	FLOATING ROOF TANKS - BREATHING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
32032611300000	PETROLEUM REFINING	FIXED ROOF TANKS - BREATHING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
32032811300000	PETROLEUM REFINING	FIXED ROOF TANKS - WORKING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
33032211200000	PETROLEUM MARKETING	FLOATING ROOF TANKS - BREATHING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33032611200000	PETROLEUM MARKETING	FIXED ROOF TANKS - BREATHING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33032611300000	PETROLEUM MARKETING	FIXED ROOF TANKS - BREATHING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
33032811200000	PETROLEUM MARKETING	FIXED ROOF TANKS - WORKING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33032811300000	PETROLEUM MARKETING	FIXED ROOF TANKS - WORKING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
33033011200000	PETROLEUM MARKETING	UNDERGROUND TANKS	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33033011300000	PETROLEUM MARKETING	UNDERGROUND TANKS	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
33038211200000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - BREATHING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33038211300000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - BREATHING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED
33038411200000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - WORKING LOSSES	GASOLINE-RVP 10	SUB-CATEGORY UNSPECIFIED
33038411300000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - WORKING LOSSES	GASOLINE-RVP 13	SUB-CATEGORY UNSPECIFIED

Table A1-2. SCCs/EICs associated with unspecified gasoline

<i>SCC/EIC</i>	<i>NAMES</i>			
11676	PETROLEUM MARKETING	VEHICLE REFUELING	AIR TRANSPORTATION	STAGE II/NO-CONTROL
46466	BULK PLANT/TERMNL	TANKS	TANK BREATHING LOSS	
46474	BULK PLANT/TERMNL	TANKS	TANK WORKING LOSS	
46482	BULK PLANT/TERMNL	TANK CARS & TRUCKS	TANK CAR WORKING LOSS	
46490	PETROLEUM MARKETING	LIQUID STOR/TRANSFER	BULK CUSTOMERS	**
46532	GASOLINE DISP. FACIL	TANKS	TANK WORKING LOSS	UNDERGROUND
46540	GASOLINE DISP. FACIL	VEHICLE REFUELING	VAPOR DISPLACEMENT	
46557	GASOLINE DISP. FACIL	TANKS	BREATHING LOSS	UNDERGROUND
46581	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE TANKER LDNG	
46631	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE BARGE LDNG	
46730	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE BALLASTING	
82248	BULK PLANT/TERMNL	STORAGE/TRANSFER	UNSPECIFIED	
89243	FUEL STORAGE/HNDLING	GASOLINE CANS	GASOLINE	EVAPORATIVE
89250	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	TWO-STROKE EVAP
89268	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	FOUR-STROKE EVAP
89276	OFF-ROAD RECREATIONAL VEHICLES	RECREATIONAL EQUIP	GASOLINE	TWO-STROKE EVAP
89284	OFF-ROAD RECREATIONAL VEHICLES	RECREATIONAL EQUIP	GASOLINE	FOUR-STROKE EVAP
89292	OFF-ROAD EQUIPMENT	LAWN AND GARDEN	GASOLINE	TWO-STROKE EVAP
89300	OFF-ROAD RECREATIONAL VEHICLES	RECREATIONAL EQUIP	GASOLINE	FOUR-STROKE EVAP
89318	OFF-ROAD EQUIPMENT	TRANS REFRIGERATION	GASOLINE	FOUR-STROKE EVAP
89326	OFF-ROAD EQUIPMENT	LIGHT COMM EQUIP	GASOLINE	TWO-STROKE EVAP
89334	OFF-ROAD EQUIPMENT		GASOLINE	FOUR-STROKE EVAP
89342	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	TWO-STROKE EVAP
89359	OFF-ROAD EQUIPMENT		GASOLINE	FOUR-STROKE EVAP
89367	OFF-ROAD EQUIPMENT	CONSTRUCT AND MINING	GASOLINE	TWO-STROKE EVAP

89375	OFF-ROAD EQUIPMENT		GASOLINE	FOUR-STROKE EVAP
89383	OFF-ROAD EQUIPMENT	LOGGING EQUIPMENT	GASOLINE	TWO-STROKE EVAP
89391	OFF-ROAD EQUIPMENT		GASOLINE	FOUR-STROKE EVAP
89417	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	FOUR-STROKE EVAP
89466	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	FOUR-STROKE EVAP
89615				
89623				
89631				
30602201	PETROLEUM INDRY	PETROLEUM REFNG	GASOLINE BLENDING	GENERAL
40200911	ORGANIC SOLVENT	SURFACE COATING	THINNING SOLVENT	GASOLINE
40300101	PETROLEUM STORAGE	FIXED ROOF TANKS	BREATHING LOSS	GASOLINE **
40300103	PETROLEUM STORAGE	FIXED ROOF TANKS	WORKING LOSS	GASOLINE **
40300197				
40300201	PETROLEUM STORAGE	FLOAT ROOF TANKS	STAND STG LOSS	GASOLINE **
40300202	PETROLEUM STORAGE	FLOAT ROOF TANKS	WORKING LOSS	GASOLINE
40300302	PETROLEUM STORAGE	VAR.VAPOR SP.TNKS	WORKING LOSS	GASOLINE **
40301107	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 13/10/7	67K BBL-WITHDRAW
40301108	PETROLEUM STORAGE	FLOAT ROOF TANKS	GASOLINE-RVP 13/10/7	250K BBL-WITHDRAW
40301131	PETROLEUM STORAGE	FLOAT ROOF TANKS	EXTNL-PRIMARY SEAL	GASOLINE
40301141	PETROLEUM STORAGE	FLOAT ROOF TANKS	EXTNL-SECDRY SEAL	GASOLINE
40400116	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 13/10/7	67K BBL- WITHDRAW
40400117	BULK TERMINALS	FLOAT ROOF TANKS	GASOLINE-RVP 13/10/7	250K BBL-WITHDRAW
40400148	BULK TERMINALS	EXT FLT RF W/P&S SL	GASOLINE-RVP 13/10/7	WITHDRAWAL LOSS
40400150	BULK TERMINALS	MISC LOSSES	LEAKS	LOADING RACKS
40400160	BULK TERMINALS	PRIMARY SEAL	SPECIFY LIQUID	STANDING LOSS
40400170	BULK TERMINALS	SECONDARY SEAL	SPECIFY LIQUID	STANDING LOSS
40400178	BULK TERMINALS	INT FLT RF W/P&S SL	GASOLINE-RVP 13/10/7	WITHDRAWAL LOSS
40400179	BULK TERMINALS	INT FLT RF W/P&S SL	SPECIFY LIQUID	

40400210	BULK PLANTS	FLOAT ROOF TANKS	GASOLINE-RVP 13/10/7	67K BBL- WITHDRAW
40400248	BULK TERMINALS	EXT FLT RF W/P&S SL	GASOLINE-RVP 13/10/7	WITHDRAWAL LOSS
40400279	BULK TERMINALS	INT FLT RF W/P&S SL	SPECIFY LIQUID	
40600101	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SPLASH	LOAD **
40600126	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SUBMERGE	LOAD **
40600131	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SUBMERGE	LOAD-NORMAL SVC
40600136	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SPLASH	LOAD-NORMAL SVC
40600141	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SUBMERGE	LOAD-BALANCE SVC
40600144	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SPLASH	LOAD-BALANCE SVC
40600147	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-SUBMERGE	LOAD-CLEAN TANK
40600151	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE	UNLOAD **
40600162	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-TRANSIT	LOADED W/ FUEL
40600163	PETROLEUM MARKETING	TANK CARS/TRUCKS	GASOLINE-TRANSIT	RETURN W/ VAPOR
40600201	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE	LOADING **
40600226	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE	UNLOADING **
40600231	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE SHIP	CLEAN TANK
40600232	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE BARGE	LOADING
40600234	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE SHIP	LOADING-BALLASTED
40600236	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE SHIP	UNCLEAN TANK
40600238	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE BARGE	UNCLEAN TANK
40600239	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE SHIP	AVERAGE TANK
40600240	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE BARGE	AVERAGE TANK
40600241	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE TANKER	BALLASTING
40600242	PETROLEUM MARKETING	MARINE VESSELS	GASOLINE	TRANSIT
40600301	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	SPLASH FILLING
40600302	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	SUB FILL-NO CNTRL
40600303	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	SUB FILL-OPEN S**
40600304	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	SUB FILL-CLSD S**

40600305	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	UNLOADING **
40600306	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	SUB FILL-BALANCED
40600307	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	BREATH-UNDRGD TNK
40600399	PETROLEUM MARKETING	SERVICE STATIONS	STAGE I	NOT CLASSIFIED **
40600401	PETROLEUM MARKETING	SERVICE STATIONS	STAGE II	VAPOR-NO CONTROL
40600402	PETROLEUM MARKETING	SERVICE STATIONS	STAGE II	LIQUID-NO CONTROL
40600403	PETROLEUM MARKETING	SERVICE STATIONS	STAGE II	VAPOR-CONTROLLED
40600499	PETROLEUM MARKETING	SERVICE STATIONS	STAGE II	NOT CLASSIFIED **
40600601	PETROLEUM MARKETING	MISCELLANEOUS	VAPOR LOSS W/O CNTLS	
40600603	PETROLEUM MARKETING	MISCELLANEOUS	VAPOR LOSS W/CONTRLS	
40600707	PETROLEUM MARKETING	CORP FLEET REFUELING	STAGE I	UNDRGRD TNK BRTH&EMP
40729697	ORGANIC CHEM STRG	FLOAT ROOF TANKS	SPECIFY IN COMMENTS	BREATHING LOSS
31039016000000	OIL AND GAS PRODUCTION	TANK CARS AND TRUCKS - WORKING LOSSES	CRUDE OIL (UNSPECIFIED)	SUB-CATEGORY UNSPECIFIED
32032211000000	PETROLEUM REFINING	FLOATING ROOF TANKS - BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
32032411000000	PETROLEUM REFINING	FLOATING ROOF TANKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
32039011000000	PETROLEUM REFINING	TANK CARS AND TRUCKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
32039211000000	PETROLEUM REFINING	TANK CARS AND TRUCKS - IN-TRANSIT BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33032211000000	PETROLEUM MARKETING	FLOATING ROOF TANKS - BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33032411000000	PETROLEUM MARKETING	FLOATING ROOF TANKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33033011400000	PETROLEUM MARKETING	UNDERGROUND TANKS	AVIATION GASOLINE	SUB-CATEGORY UNSPECIFIED
33036611000000	PETROLEUM MARKETING	TANKER LOADING	GASOLINE	SUB-CATEGORY UNSPECIFIED
33036811000000	PETROLEUM MARKETING	BARGE LOADING	GASOLINE	SUB-CATEGORY UNSPECIFIED
33037211000000	PETROLEUM MARKETING	BALLASTING	GASOLINE	SUB-CATEGORY UNSPECIFIED
33037411000000	PETROLEUM MARKETING	FUEL DISPENSING TANKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33037611000000	PETROLEUM MARKETING	FUEL DISPENSING TANKS - BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED

33037811000000	PETROLEUM MARKETING	VEHICLE REFUELING - VAPOR DISPLACEMENT LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33038211000000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33038411000000	PETROLEUM MARKETING	BULK PLANTS/TERMINALS - GASOLINE STORAGE - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33038611000000	PETROLEUM MARKETING	STORAGE TANKS AND PIPELINE CLEANING AND DEGASSING	GASOLINE	SUB-CATEGORY UNSPECIFIED
33039000100000	PETROLEUM MARKETING	TANK CARS AND TRUCKS - WORKING LOSSES	HYDROCARBON COMPOUNDS (UNSPECIFIED)	SUB-CATEGORY UNSPECIFIED
33039011000000	PETROLEUM MARKETING	TANK CARS AND TRUCKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33039411000000	PETROLEUM MARKETING	TANKER/BARGE - IN-TRANSIT BREATHING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33039511000000	PETROLEUM MARKETING	CARGO TANKS - PRESSURE RELATED FUGITIVE LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33039611000000	PETROLEUM MARKETING	CARGO TANKS - VAPOR HOSE FUGITIVE LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33039711000000	PETROLEUM MARKETING	CARGO TANKS - PRODUCT HOSE FUGITIVE LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
33099511000000	PETROLEUM MARKETING	OTHER	GASOLINE	SUB-CATEGORY UNSPECIFIED
41032249990000	CHEMICAL	FLOATING ROOF TANKS - BREATHING LOSSES	CHEMICALS (UNSPECIFIED)	SUB-CATEGORY UNSPECIFIED
49932249990000	OTHER (INDUSTRIAL PROCESSES)	FLOATING ROOF TANKS - BREATHING LOSSES	CHEMICALS (UNSPECIFIED)	SUB-CATEGORY UNSPECIFIED
49932411000000	OTHER (INDUSTRIAL PROCESSES)	FLOATING ROOF TANKS - WORKING LOSSES	GASOLINE	SUB-CATEGORY UNSPECIFIED
84086411000021	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	TWO-STROKE EVAPORATIVE
84086411000041	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	FOUR-STROKE EVAPORATIVE
84086411006154	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-2-Evap.
84086411006156	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-2-Evap.
84086411006158	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-15-Evap.
84086411006160	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-15-Evap.
84086411006162	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-25-Evap.
84086411006257	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-25-Evap.
84086411006259	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-50-Evap.

84086411006261	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-50-Evap.
84086411006263	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-120-Evap.
84086411006265	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-120-Evap.
84086411006267	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-175-Evap.
84086411006269	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-175-Evap.
84086411006271	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-250-Evap.
84086411006273	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-250-Evap.
84086411006275	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-500-Evap.
84086411006277	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-500-Evap.
84086411006279	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-CARB-750-Evap.
84086411006281	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G4-FI-750-Evap.
84086411006283	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-2-Evap.
84086411006285	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-2-Evap.
84086411006287	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-15-Evap.
84086411006289	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-15-Evap.
84086411006291	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-25-Evap.
84086411006293	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-25-Evap.
84086411006295	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-50-Evap.
84086411006297	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-50-Evap.
84086411006299	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-120-Evap.
84086411006301	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-120-Evap.
84086411006303	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Personal Water Craft-G2-9999-Evap
84086411006305	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-175-Evap.
84086411006307	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-175-Evap.
84086411006309	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-250-Evap.
84086411006311	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-250-Evap.
84086411006313	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-500-Evap.
84086411006352	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-500-Evap.

84086411006354	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-CARB-750-Evap.
84086411006356	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/inboard Engine G2-FI-750-Evap.
84086411006358	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-2-Evap.
84086411006360	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-2-Evap.
84086411006362	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-15-Evap.
84086411006364	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-15-Evap.
84086411006366	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-25-Evap.
84086411006368	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-25-Evap.
84086411006370	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-50-Evap.
84086411006372	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-50-Evap.
84086411006374	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-120-Evap.
84086411006376	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-120-Evap.
84086411006378	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-175-Evap.
84086411006380	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-175-Evap.
84086411006382	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-250-Evap.
84086411006384	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-250-Evap.
84086411006386	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-500-Evap.
84086411006388	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-500-Evap.
84086411006390	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-CARB-750-Evap.
84086411006392	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G4-FI-750-Evap.
84086411006394	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-2-Evap.
84086411006396	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-2-Evap.
84086411006398	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-15-Evap.
84086411006400	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-15-Evap.
84086411006402	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-25-Evap.
84086411006482	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-25-Evap.
84086411006484	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-50-Evap.
84086411006486	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-50-Evap.

84086411006488	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-120-Evap.
84086411006490	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-120-Evap.
84086411006492	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-175-Evap.
84086411006494	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-175-Evap.
84086411006496	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-250-Evap.
84086411006498	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-250-Evap.
84086411006500	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-500-Evap.
84086411006502	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-500-Evap.
84086411006504	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-CARB-750-Evap.
84086411006506	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/jet Engine G2-FI-750-Evap.
84086411006508	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-2-Evap.
84086411006510	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-2-Evap.
84086411006512	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-15-Evap.
84086411006514	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-15-Evap.
84086411006516	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-25-Evap.
84086411006518	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-25-Evap.
84086411006520	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-50-Evap.
84086411006522	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-50-Evap.
84086411006524	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-120-Evap.
84086411006526	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-120-Evap.
84086411006528	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-175-Evap.
84086411006530	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-175-Evap.
84086411006532	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-250-Evap.
84086411006534	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-250-Evap.
84086411006536	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-500-Evap.
84086411006538	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-500-Evap.
84086411006540	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-CARB-750-Evap.
84086411006542	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G4-FI-750-Evap.

84086411006544	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-2-Evap.
84086411006546	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-2-Evap.
84086411006548	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-15-Evap.
84086411006550	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-15-Evap.
84086411006657	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-25-Evap.
84086411006659	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-25-Evap.
84086411006661	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-50-Evap.
84086411006663	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-50-Evap.
84086411006665	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-120-Evap.
84086411006667	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-120-Evap.
84086411006669	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-175-Evap.
84086411006671	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-175-Evap.
84086411006673	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-250-Evap.
84086411006675	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-250-Evap.
84086411006677	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-500-Evap.
84086411006679	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-500-Evap.
84086411006681	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-CARB-750-Evap.
84086411006683	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/outboard Engine G2-FI-750-Evap.
84086411006685	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-2-Evap.
84086411006687	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-2-Evap.
84086411006689	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-15-Evap.
84086411006691	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-15-Evap.
84086411006693	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-25-Evap.
84086411006695	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-25-Evap.
84086411006697	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-50-Evap.
84086411006699	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-50-Evap.
84086411006701	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-120-Evap.
84086411006703	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-120-Evap.

84086411006705	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-175-Evap.
84086411006707	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-175-Evap.
84086411006709	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-250-Evap.
84086411006711	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-250-Evap.
84086411006713	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-500-Evap.
84086411006715	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-500-Evap.
84086411006717	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-750-Evap.
84086411006719	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-FI-750-Evap.
84086411006721	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-2-Evap.
84086411006723	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-2-Evap.
84086411006725	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-15-Evap.
84086411006727	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-15-Evap.
84086411006729	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-25-Evap.
84086411006731	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-25-Evap.
84086411006733	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-50-Evap.
84086411006735	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-50-Evap.
84086411006737	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-120-Evap.
84086411006739	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-120-Evap.
84086411006741	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-175-Evap.
84086411006743	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-175-Evap.
84086411006745	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-250-Evap.
84086411006747	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-250-Evap.
84086411006749	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-500-Evap.
84086411006751	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-500-Evap.
84086411006753	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-CARB-750-Evap.
84086411006755	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G2-FI-750-Evap.
84086411006757	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/PWC G4-CARB-2-Evap.
84086411006759	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-2-Evap.

84086411006761	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-15-Evap.
84086411006763	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-15-Evap.
84086411006765	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-25-Evap.
84086411006767	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-25-Evap.
84086411006769	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-50-Evap.
84086411006771	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-50-Evap.
84086411006773	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-120-Evap.
84086411006775	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-120-Evap.
84086411006777	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-175-Evap.
84086411006779	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-175-Evap.
84086411006781	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-250-Evap.
84086411006783	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-250-Evap.
84086411006785	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-500-Evap.
84086411006787	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-500-Evap.
84086411006789	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-CARB-750-Evap.
84086411007572	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G4-FI-750-Evap.
84086411007574	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-2-Evap.
84086411007576	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-2-Evap.
84086411007578	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-15-Evap.
84086411007580	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-15-Evap.
84086411007582	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-25-Evap.
84086411007584	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-25-Evap.
84086411007586	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-50-Evap.
84086411007588	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-50-Evap.
84086411007590	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-120-Evap.
84086411007592	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-120-Evap.
84086411007594	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-175-Evap.
84086411007596	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-175-Evap.

84086411007598	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-250-Evap.
84086411007600	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-250-Evap.
84086411007602	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-500-Evap.
84086411007617	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-500-Evap.
84086411007619	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-CARB-750-Evap.
84086411007621	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessel W/sterndrive G2-FI-750-Evap.
84086411007975	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Inboard Engine-G4-15-Evap
84086411007993	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Outboard Engin-G2-15-Evap
84086411008003	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Outboard Engin-G2-25-Evap
84086411008013	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Outboard Engin-G2-50-Evap
84086411008132	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-2-Evap.
84086411008134	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-2-Evap.
84086411008136	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-15-Evap.
84086411008138	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-15-Evap.
84086411008140	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-25-Evap.
84086411008142	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-25-Evap.
84086411008202	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-50-Evap.
84086411008204	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-50-Evap.
84086411008206	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-120-Evap.
84086411008208	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-120-Evap.
84086411008210	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-175-Evap.
84086411008212	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-175-Evap.
84086411008294	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-250-Evap.
84086411008296	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-250-Evap.
84086411008298	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-500-Evap.
84086411008332	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-500-Evap.
84086411008334	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-CARB-750-Evap.
84086411008336	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G4-FI-750-Evap.

84086411008338	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-2-Evap.
84086411008340	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-2-Evap.
84086411008342	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-15-Evap.
84086411008422	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-15-Evap.
84086411008424	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-25-Evap.
84086411008426	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-25-Evap.
84086411008428	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-50-Evap.
84086411008430	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-50-Evap.
84086411008432	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-120-Evap.
84086411008562	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-120-Evap.
84086411008564	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-175-Evap.
84086411008566	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-175-Evap.
84086411008568	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-250-Evap.
84086411008570	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-250-Evap.
84086411008572	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-500-Evap.
84086411008656	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-500-Evap.
84086411008658	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-CARB-750-Evap.
84086411008660	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Sailboat Auxiliary Engine G2-FI-750-Evap.
84086411009565	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Inboard Engines-G4-250-Evap
84086411009585	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Inboard Jet Engines-G4-500-Evap
84086411009593	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-2-Evap
84086411009603	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-15-Evap
84086411009613	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-25-Evap
84086411009623	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-50-Evap
84086411009635	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G4-50-Evap
84086411009643	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-120-Evap
84086411009653	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-175-Evap
84086411009663	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-250-Evap

84086411009673	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Outboard Engines-G2-500-Evap
84086411009685	RECREATIONAL BOATS	RECREATIONAL BOATS	GASOLINE	Vessels w/Sterndrive Engines-G4-250-Evap
85087011006253	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G2-25-Evap
85087011006255	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G4-25-Evap.
85087011006553	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G2-50-Evap
85087011006555	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G4-50-Evap.
85087011006653	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G2-120-Evap
85087011006655	OFF-ROAD RECREATIONAL VEHICLES	SNOWMOBILES	GASOLINE	Snowmobiles -G4-120-Evap.
85087111000021	OFF-ROAD RECREATIONAL VEHICLES	RECREATIONAL EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
85087111000041	OFF-ROAD RECREATIONAL VEHICLES	RECREATIONAL EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
85087211004053	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G2-5-Evap.
85087211004055	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G4-5-Evap.
85087211004153	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G2-15-Evap
85087211004155	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G4-15-Evap
85087211004253	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G2-25-Evap
85087211004255	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G4-25-Evap
85087211004553	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G2-50-Evap
85087211004555	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G4-50-Evap
85087211004653	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G2-120-Evap
85087211004655	OFF-ROAD RECREATIONAL VEHICLES	OFF-ROAD MOTORCYCLES	GASOLINE	Off-Road Motorcycles -G4-120-Evap.
85087311003053	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	Minibikes -G2-5-Evap.
85087311003055	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	Minibikes -G4-5-Evap
85087311003253	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	Minibikes -G2-15-Evap.

85087311003255	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	Minibikes -G4-15-Evap.
85087311003453	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	Minibikes -G2-25-Evap.
85087311003455	OFF-ROAD RECREATIONAL VEHICLES	MINIBIKES	GASOLINE	MINIBIKES -G4-25-EVAP.
85087411000953	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G2-5-Evap.
85087411000955	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G4-5-Evap.
85087411001053	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G2-15-Evap
85087411001055	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G4-15-Evap
85087411001253	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G2-25-Evap
85087411001255	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G4-25-Evap
85087411001553	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G2-50-Evap
85087411001555	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G4-50-Evap
85087411001653	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G2-120-Evap.
85087411001655	OFF-ROAD RECREATIONAL VEHICLES	ALL-TERRAIN VEHICLES (ATV'S)	GASOLINE	All Terrain Vehicles (ATVs)-G4-120-Evap.
85087511002153	OFF-ROAD RECREATIONAL VEHICLES	GOLF CARTS	GASOLINE	Golf Carts -G2-15-Evap
85087511002155	OFF-ROAD RECREATIONAL VEHICLES	GOLF CARTS	GASOLINE	Golf Carts -G4-15-Evap
85087711005153	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G2-5-Evap.
85087711005155	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G4-5-Evap
85087711005253	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G2-15-Evap.
85087711005255	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G4-15-Evap
85087711005353	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G2-25-Evap.
85087711005355	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G4-25-Evap
85087711005453	OFF-ROAD RECREATIONAL VEHICLES	SPECIALTY VEHICLES CARTS	GASOLINE	Specialty Vehicles Carts -G2-15-Evap

86088311000021	OFF-ROAD EQUIPMENT	LAWN AND GARDEN EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
86088311000041	OFF-ROAD EQUIPMENT	LAWN AND GARDEN EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
86088411000041	OFF-ROAD EQUIPMENT	TRANSPORT REFRIGERATION UNITS	GASOLINE	FOUR-STROKE EVAPORATIVE
86088411009375	OFF-ROAD EQUIPMENT	TRANSPORT REFRIGERATION UNITS	GASOLINE	Transport Refrigeration Units-G4-15-Evap
86088511000021	OFF-ROAD EQUIPMENT	LIGHT COMMERCIAL EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
86088511000041	OFF-ROAD EQUIPMENT	LIGHT COMMERCIAL EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
86088611000021	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
86088611000041	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
86088611000145	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Aerial Lifts-G4-15-Evap
86088611000175	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Aerial Lifts-G4-25-Evap
86088611000205	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Aerial Lifts-G4-50-Evap
86088611000225	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Aerial Lifts-G4-120-Evap
86088611002855	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Forklifts-G4-25-Evap
86088611002875	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Forklifts-G4-50-Evap
86088611002905	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Forklifts-G4-120-Evap
86088611002935	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Forklifts-G4-175-Evap
86088611005503	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G2-15-Evap
86088611005515	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G4-15-Evap
86088611005535	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G4-25-Evap
86088611005555	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G4-50-Evap
86088611005575	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G4-120-Evap
86088611005595	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other General Industrial Equipmen-G4-175-Evap
86088611005805	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other Material Handling Equipment-G4-50-Evap
86088611005825	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Other Material Handling Equipment-G4-120-Evap
86088611008855	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Sweepers/Scrubbers-G4-15-Evap
86088611008875	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Sweepers/Scrubbers-G4-25-Evap
86088611008895	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Sweepers/Scrubbers-G4-50-Evap
86088611008915	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Sweepers/Scrubbers-G4-120-Evap

86088611008935	OFF-ROAD EQUIPMENT	INDUSTRIAL EQUIPMENT	GASOLINE	Sweepers/Scrubbers-G4-175-Evap
86088711000021	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
86088711000041	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
86088711000655	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Asphalt Pavers-G4-15-Evap
86088711000665	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Asphalt Pavers-G4-25-Evap
86088711000675	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Asphalt Pavers-G4-50-Evap
86088711000685	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Asphalt Pavers-G4-120-Evap
86088711000835	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Bore/Drill Rigs-G4-15-Evap
86088711000855	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Bore/Drill Rigs-G4-25-Evap
86088711000875	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Bore/Drill Rigs-G4-50-Evap
86088711000895	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Bore/Drill Rigs-G4-120-Evap
86088711000915	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Bore/Drill Rigs-G4-175-Evap
86088711001105	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cement and Mortar Mixers-G4-5-Evap
86088711001115	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cement and Mortar Mixers-G4-15-Evap
86088711001135	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cement and Mortar Mixers-G4-25-Evap
86088711001675	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Concrete/Industrial Saws-G4-5-Evap
86088711001685	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Concrete/Industrial Saws-G4-15-Evap
86088711001695	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Concrete/Industrial Saws-G4-25-Evap
86088711001715	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Concrete/Industrial Saws-G4-50-Evap
86088711001765	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Concrete/Industrial Saws-G4-120-Evap
86088711001995	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cranes-G4-50-Evap
86088711002015	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cranes-G4-120-Evap

86088711002035	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Cranes-G4-175-Evap
86088711002175	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Crushing/Proc. Equipment-G4-15-Evap
86088711002185	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Crushing/Proc. Equipment-G4-25-Evap
86088711002205	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Crushing/Proc. Equipment-G4-120-Evap
86088711002405	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Dumpers/Tenders-G4-5-Evap
86088711002415	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Dumpers/Tenders-G4-15-Evap
86088711002455	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Dumpers/Tenders-G4-25-Evap
86088711002475	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Dumpers/Tenders-G4-120-Evap
86088711005385	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Other Construction Equipment-G4-175-Evap
86088711006165	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Paving Equipment-G4-5-Evap
86088711006175	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Paving Equipment-G4-15-Evap
86088711006185	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Paving Equipment-G4-25-Evap
86088711006205	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Paving Equipment-G4-50-Evap
86088711006225	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Paving Equipment-G4-120-Evap
86088711006315	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Plate Compactors-G4-5-Evap
86088711006323	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Plate Compactors-G2-15-Evap
86088711006345	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Plate Compactors-G4-15-Evap
86088711007625	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rollers-G4-5-Evap
86088711007635	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rollers-G4-15-Evap
86088711007655	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rollers-G4-25-Evap
86088711007675	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rollers-G4-50-Evap
86088711007695	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rollers-G4-120-Evap

86088711007745	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rough Terrain Forklifts-G4-50-Evap
86088711007765	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rough Terrain Forklifts-G4-120-Evap
86088711007785	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rough Terrain Forklifts-G4-175-Evap
86088711007885	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rubber Tired Loaders-G4-50-Evap
86088711007905	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Rubber Tired Loaders-G4-120-Evap
86088711008145	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Signal Boards-G4-5-Evap
86088711008155	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Signal Boards-G4-15-Evap
86088711008215	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Skid Steer Loaders-G4-15-Evap
86088711008225	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Skid Steer Loaders-G4-25-Evap
86088711008265	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Skid Steer Loaders-G4-50-Evap
86088711008285	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Skid Steer Loaders-G4-120-Evap
86088711008575	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Surfacing Equipment-G4-5-Evap
86088711008585	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Surfacing Equipment-G4-15-Evap
86088711008595	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Surfacing Equipment-G4-25-Evap
86088711009013	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Tampers/Rammers-G2-15-Evap
86088711009025	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Tampers/Rammers-G4-15-Evap
86088711009335	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Tractors/Loaders/Backhoes-G4-120-Evap
86088711009425	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Trenchers-G4-15-Evap
86088711009445	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Trenchers-G4-25-Evap
86088711009465	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Trenchers-G4-50-Evap
86088711009485	OFF-ROAD EQUIPMENT	CONSTRUCTION AND MINING EQUIPMENT	GASOLINE	Trenchers-G4-120-Evap
86088811000021	OFF-ROAD EQUIPMENT	LOGGING EQUIPMENT	GASOLINE	TWO-STROKE EVAPORATIVE
86088811000041	OFF-ROAD EQUIPMENT	LOGGING EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE

86088811001163	OFF-ROAD EQUIPMENT	LOGGING EQUIPMENT	GASOLINE	Chainsaws-G2-15-Evap
86088811008125	OFF-ROAD EQUIPMENT	LOGGING EQUIPMENT	GASOLINE	Shredders-G4-15-Evap
86088911000021	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	TWO-STROKE EVAPORATIVE
86088911000041	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	FOUR-STROKE EVAPORATIVE
86088911000055	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	A/C Tug Narrow Body-G4-175-Evap
86088911000085	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	A/C Tug Wide Body-G4-500-Evap
86088911000535	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Air Conditioner-G4-175-Evap
86088911000585	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Air Start Unit-G4-175-Evap
86088911000705	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Baggage Tug-G4-120-Evap
86088911000775	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Belt Loader-G4-120-Evap
86088911000805	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Bobtail-G4-120-Evap
86088911000975	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Cargo Loader-G4-120-Evap
86088911001005	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Cargo Tractor-G4-120-Evap
86088911001035	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Cart-G4-15-Evap
86088911001075	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Catering Truck-G4-250-Evap
86088911002285	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Deicer-G4-120-Evap
86088911002705	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Forklift-G4-50-Evap
86088911003005	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Fuel Truck-G4-175-Evap
86088911003085	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Generator-G4-120-Evap
86088911003765	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Ground Power Unit-G4-175-Evap
86088911003855	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Hydrant truck-G4-175-Evap
86088911004005	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Lav Cart-G4-15-Evap
86088911004015	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Lav Truck-G4-175-Evap
86088911004165	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Lift-G4-120-Evap
86088911004285	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Maint. Truck-G4-175-Evap
86088911005655	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Other GSE-G4-50-Evap
86088911006065	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Passenger Stand-G4-175-Evap
86088911008085	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Service Truck-G4-250-Evap

86088911008715	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Sweeper-G4-120-Evap
86088911009695	OFF-ROAD EQUIPMENT	AIRPORT GRND SUPPORT	GASOLINE	Water Truck-G4-175-Evap
86089011000041	OFF-ROAD EQUIPMENT	DREDGING	GASOLINE	FOUR-STROKE EVAPORATIVE
86089111000041	OFF-ROAD EQUIPMENT	OIL DRILLING AND WORKOVER	GASOLINE	FOUR-STROKE EVAPORATIVE
86089211000041	OFF-ROAD EQUIPMENT	MILITARY TACTICAL SUPPORT EQUIPMENT	GASOLINE	FOUR-STROKE EVAPORATIVE
86090111001153	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Chainsaws-G2-2-Evap
86090111001167	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Chainsaws-G2-15-Nonpreempt-Evap
86090111001169	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Chainsaws-G2-15-Preempt-Evap
86090111001175	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Chippers/Stump Grinders-G4-15-Evap
86090111001185	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Chippers/Stump Grinders-G4-25-Evap
86090111001333	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Commercial Turf Equipment-G2-15-Evap
86090111001345	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Commercial Turf Equipment-G4-15-Evap
86090111001363	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Commercial Turf Equipment-G2-25-Evap
86090111001375	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Commercial Turf Equipment-G4-25-Evap
86090111002985	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Front Mowers-G4-15-Evap
86090111002995	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Front Mowers-G4-25-Evap
86090111004045	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Lawn & Garden Tractors-G4-15-Evap
86090111004065	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Lawn & Garden Tractors-G4-25-Evap
86090111004095	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Lawn Mowers-G4-5-Evap
86090111004103	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Lawn Mowers-G2-15-Evap
86090111004113	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Leaf Blowers/Vacuums-G2-2-Evap
86090111004125	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Leaf Blowers/Vacuums-G4-5-Evap
86090111005673	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Other Lawn & Garden Equipment-G2-2-Evap
86090111005685	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-5-Evap
86090111005693	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Other Lawn & Garden Equipment-G2-15-Evap
86090111005705	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-15-Evap
86090111005725	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-25-Evap
86090111007605	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Rear Engine Riding Mowers-G4-15-Evap

86090111007615	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Rear Engine Riding Mowers-G4-25-Evap
86090111008105	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Shredders-G4-5-Evap
86090111008113	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Shredders-G2-15-Evap
86090111008345	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Snowblowers-G4-5-Evap
86090111008353	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Snowblowers-G2-15-Evap
86090111008365	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Snowblowers-G4-15-Evap
86090111008373	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Snowblowers-G2-25-Evap
86090111008385	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Snowblowers-G4-25-Evap
86090111009075	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Tillers-G4-5-Evap
86090111009543	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Trimmers/Edgers/Brush Cutters-G2-2-Evap
86090111009555	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Trimmers/Edgers/Brush Cutters-G4-5-Evap
86090111009835	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (COMMERCIAL)	GASOLINE	Wood Splitters-G4-5-Evap
86090211001153	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Chainsaws-G2-2-Evap
86090211001167	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Chainsaws-G2-15-Nonpreempt-Evap
86090211001169	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Chainsaws-G2-15-Preempt-Evap
86090211001175	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Chippers/Stump Grinders-G4-15-Evap
86090211001185	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Chippers/Stump Grinders-G4-25-Evap
86090211002985	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Front Mowers-G4-15-Evap
86090211002995	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Front Mowers-G4-25-Evap
86090211004045	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Lawn & Garden Tractors-G4-15-Evap
86090211004065	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Lawn & Garden Tractors-G4-25-Evap
86090211004095	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Lawn Mowers-G4-5-Evap
86090211004103	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Lawn Mowers-G2-15-Evap
86090211004113	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Leaf Blowers/Vacuums-G2-2-Evap
86090211004125	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Leaf Blowers/Vacuums-G4-5-Evap
86090211005673	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Other Lawn & Garden Equipment-G2-2-Evap
86090211005685	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-5-Evap
86090211005693	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Other Lawn & Garden Equipment-G2-15-Evap

86090211005705	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-15-Evap
86090211005725	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Other Lawn & Garden Equipment-G4-25-Evap
86090211007605	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Rear Engine Riding Mowers-G4-15-Evap
86090211007615	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Rear Engine Riding Mowers-G4-25-Evap
86090211008105	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Shredders-G4-5-Evap
86090211008113	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Shredders-G2-15-Evap
86090211008345	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Snowblowers-G4-5-Evap
86090211008353	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Snowblowers-G2-15-Evap
86090211008365	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Snowblowers-G4-15-Evap
86090211008373	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Snowblowers-G2-25-Evap
86090211008385	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Snowblowers-G4-25-Evap
86090211009075	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Tillers-G4-5-Evap
86090211009543	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Trimmers/Edgers/Brush Cutters-G2-2-Evap
86090211009555	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Trimmers/Edgers/Brush Cutters-G4-5-Evap
86090211009835	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (RESIDENTIAL)	GASOLINE	Wood Splitters-G4-5-Evap
86090311001395	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (OTHER)	GASOLINE	Commercial Turf Equipment-G4-50-Evap
86090311001405	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (OTHER)	GASOLINE	Commercial Turf Equipment-G4-120-Evap
86090311004085	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (OTHER)	GASOLINE	Lawn & Garden Tractors-G4-50-Evap
86090311005745	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (OTHER)	GASOLINE	Other Lawn & Garden Equipment-G4-50-Evap
86090311005755	OFF-ROAD EQUIPMENT	LAWN AND GARDEN (OTHER)	GASOLINE	Other Lawn & Garden Equipment-G4-120-Evap
86090411000385	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Air Compressors-G4-5-Evap
86090411000395	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Air Compressors-G4-15-Evap
86090411000415	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Air Compressors-G4-25-Evap
86090411003503	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Generator Sets-G2-2-Evap
86090411003515	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Generator Sets-G4-5-Evap
86090411003523	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Generator Sets-G2-15-Evap
86090411003535	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Generator Sets-G4-15-Evap
86090411003555	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Generator Sets-G4-25-Evap

86090411006405	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pressure Washers-G4-5-Evap
86090411006415	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pressure Washers-G4-15-Evap
86090411006435	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pressure Washers-G4-25-Evap
86090411007003	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G2-2-Evap
86090411007015	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G4-5-Evap
86090411007023	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G2-15-Evap
86090411007035	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G4-15-Evap
86090411007453	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G2-25-Evap
86090411007465	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Pumps-G4-25-Evap
86090411009725	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Welders-G4-15-Evap
86090411009745	OFF-ROAD EQUIPMENT	COMMERCIAL (COMMERCIAL)	GASOLINE	Welders-G4-25-Evap
86090511000385	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Air Compressors-G4-5-Evap
86090511000395	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Air Compressors-G4-15-Evap
86090511000415	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Air Compressors-G4-25-Evap
86090511003503	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Generator Sets-G2-2-Evap
86090511003515	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Generator Sets-G4-5-Evap
86090511003523	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Generator Sets-G2-15-Evap
86090511003535	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Generator Sets-G4-15-Evap
86090511003555	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Generator Sets-G4-25-Evap
86090511006405	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pressure Washers-G4-5-Evap
86090511006415	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pressure Washers-G4-15-Evap
86090511006435	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pressure Washers-G4-25-Evap
86090511007003	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G2-2-Evap
86090511007015	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G4-5-Evap
86090511007023	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G2-15-Evap
86090511007035	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G4-15-Evap
86090511007453	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G2-25-Evap
86090511007465	OFF-ROAD EQUIPMENT	COMMERCIAL (RESIDENTIAL)	GASOLINE	Pumps-G4-25-Evap

86090611000435	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Air Compressors-G4-50-Evap
86090611000455	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Air Compressors-G4-120-Evap
86090611000475	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Air Compressors-G4-175-Evap
86090611003575	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Generator Sets-G4-50-Evap
86090611003595	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Generator Sets-G4-120-Evap
86090611003625	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Generator Sets-G4-175-Evap
86090611006455	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Pressure Washers-G4-50-Evap
86090611007485	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Pumps-G4-50-Evap
86090611007505	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Pumps-G4-120-Evap
86090611007525	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Pumps-G4-175-Evap
86090611009755	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Welders-G4-50-Evap
86090611009775	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Welders-G4-120-Evap
86090611009795	OFF-ROAD EQUIPMENT	COMMERCIAL (OTHER)	GASOLINE	Welders-G4-175-Evap
86099511000041	OFF-ROAD EQUIPMENT	OTHER	GASOLINE	FOUR-STROKE EVAPORATIVE
87089311000015	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	2-Wheel Tractors-G4-5-Evap
87089311000025	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	2-Wheel Tractors-G4-15-Evap
87089311000035	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	2-Wheel Tractors-G4-25-Evap
87089311000041	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	FOUR-STROKE EVAPORATIVE
87089311000265	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Agricultural Mowers-G4-15-Evap
87089311000275	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Agricultural Mowers-G4-25-Evap
87089311000325	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Agricultural Tractors-G4-120-Evap
87089311000345	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Agricultural Tractors-G4-175-Evap
87089311000735	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Balers-G4-50-Evap
87089311000755	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Balers-G4-120-Evap
87089311001265	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Combines-G4-120-Evap
87089311001285	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Combines-G4-175-Evap
87089311001305	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Combines-G4-250-Evap
87089311003905	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Hydro Power Units-G4-5-Evap

87089311003915	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Hydro Power Units-G4-15-Evap
87089311003935	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Hydro Power Units-G4-25-Evap
87089311003965	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Hydro Power Units-G4-50-Evap
87089311003985	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Hydro Power Units-G4-120-Evap
87089311005005	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-5-Evap
87089311005015	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-15-Evap
87089311005035	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-25-Evap
87089311005055	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-50-Evap
87089311005075	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-120-Evap
87089311005095	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-175-Evap
87089311005115	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Other Agricultural Equipment-G4-250-Evap
87089311008435	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-5-Evap
87089311008445	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-15-Evap
87089311008455	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-25-Evap
87089311008475	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-50-Evap
87089311008495	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-120-Evap
87089311008515	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Sprayers-G4-175-Evap
87089311008665	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Swathers-G4-120-Evap
87089311008685	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Swathers-G4-175-Evap
87089311009085	FARM EQUIPMENT	AGRICULTURAL EQUIP	GASOLINE	Tillers-G4-15-Evap
89089511000041	FUEL STORAGE AND HANDLING	GASOLINE CANS	GASOLINE	FOUR-STROKE EVAPORATIVE

Appendix 2. OG Speciation Profile for Headspace Vapor of Winter-Grade E10 Gasoline Fuel (OG695)

<i>Species Name</i>	<i>SAROAD</i>	<i>Weight Percentage (%)</i>
(2-methylpropyl)benzene	45235	0.000362
1,2,3,5-tetramethylbenzene	91104	0.000625
1,2,3-trimethylbenzene	45225	0.003736
1,2,4,5-tetramethylbenzene	91103	0.000511
1,2,4-trimethylbenzene	45208	0.021732
1,3,5-triethylbenzene	91117	0.000024
1,3,5-trimethylbenzene	45207	0.008526
1,4-diethylbenzene (para)	45114	0.000904
1-butene	43213	0.211693
1-heptene	98005	0.000548
1-hexene	43245	0.048231
1-methyl-2-ethylbenzene	99915	0.005640
1-methyl-3-ethylbenzene	99912	0.019589
1-methyl-4-ethylbenzene	99914	0.008323
1-methyl-4-isopropylbenzene	91094	0.000067
1-methylnaphthalene	91124	0.000025
1-octene	43265	0.003755
1-pentene	43224	0.422547
2,2,3-trimethylbutane	43160	0.017540
2,2,3-trimethylhexane	91059	0.000902
2,2,3-trimethylpentane	43296	0.010611
2,2,4-trimethylpentane	43276	0.711446
2,2,5-trimethylhexane	98033	0.069608
2,2-dimethylbutane	43291	1.082339
2,2-dimethylheptane	91056	0.007713
2,2-dimethylhexane	98138	0.005943
2,2-dimethylpropane	98130	0.094824
2,3,3-trimethyl-1-butene	91002	0.005831
2,3,3-trimethylpentane	43280	0.068845
2,3,4-trimethylpentane	43279	0.153135
2,3-dimethylbutane	98001	1.339477
2,3-dimethylhexane	98139	0.044114
2,4-dimethylhexane	43277	0.088868
2,4-dimethylpentane	43271	0.555757
2,5-dimethylhexane	43278	0.076976
2-methyl-1-butene	43225	0.010269
2-methyl-2-butene	43228	1.374281
2-methyl-2-pentene	98004	0.146693
2-methyl-3-ethylpentane	91034	0.015502
2-methylheptane	98140	0.098012
2-methylhexane	43275	1.279760

2-methylnaphthalene	91123	0.000082
2-methyloctane	98146	0.010846
2-methylpentane	43229	3.628928
3,3-diethylpentane	91072	0.002325
3,3-dimethylhexane	98171	0.006117
3,4-dimethylhexane	98150	0.011868
3-ethyl-3-methylpentane	91036	0.004249
3-ethylhexane	91039	0.039559
3-methyl-1-butene	43223	0.745884
3-methyl-cis-2-pentene	98163	0.104725
3-methylheptane	43298	0.101976
3-methylhexane	43295	0.551322
3-methylpentane	43230	2.018696
4-methyl-cis-2-pentene	98170	0.028098
4-methylheptane	43297	0.032361
4-methyl-trans-2-pentene	43293	0.082149
benzene	45201	0.322244
cis-1,2-dimethylcyclohexane	91055	0.007322
cis-1,3-dimethylcyclopentane	91018	0.186896
cis-2-butene	43217	0.373992
cis-2-hexene	98035	0.062333
cis-2-pentene	43227	0.544590
cyclohexane	43248	0.452826
cyclohexene	43273	0.010578
cyclopentane	43242	0.546029
cyclopentene	43292	0.181724
ethanol	43302	5.720893
ethylbenzene	45203	0.057327
ethylcyclohexane	43288	0.025264
ethylcyclopentane	98057	0.075911
isobutane	43214	7.374508
isobutylene	43215	0.190195
isopentane	98132	22.845367
isoprene	43243	0.019916
isopropylbenzene (cumene)	98043	0.001576
isopropylcyclohexane	90120	0.000353
Isopropylcyclopentane	43178	0.001654
methylcyclohexane	43261	0.371321
methylcyclopentane	43262	1.591129
m-xylene	45205	0.138782
naphthalene	98046	0.000224
n-butane	43212	31.865383
n-butyl alcohol	43305	0.001570
n-butylbenzene	91098	0.000437
n-decane	43238	0.001743

n-dodecane	43255	0.000042
n-heptane	43232	0.274856
n-hexane	43231	1.323910
n-nonane	43235	0.011314
n-octane	43233	0.053050
n-pentane	43220	6.240538
n-propyl alcohol	43303	0.018784
n-propylbenzene	45209	0.006169
n-tetradecane	43259	0.000001
n-tridecane	43258	0.000008
n-undecane	43241	0.000253
o-xylene	45204	0.064221
propane	43204	0.850230
propylene	43205	0.003594
p-xylene	45206	0.061281
t-butylbenzene	45215	0.000708
toluene	45202	0.775147
trans-1,2-dimethylcyclopentane	91021	0.214578
trans-1,3-dimethylcyclopentane	91019	0.225479
trans-1,3-pentadiene	90100	0.014564
trans-2-butene	43216	0.406938
trans-2-octene	43263	0.001578
trans-2-pentene	43226	1.014187
trans-3-hexene	98136	0.082014
<i>Total</i>		<i>100.000000</i>