

EPA's Summary Tables for 2012 Company Progress Reports

Table 1. Reported Emissions and Product Content of PFOA, Precursors, and Higher Homologues from U.S. Operations

Company	Reduction Year	Chemical Category	Emissions		Product Content		
			Releases to all media from FP and Telomer Manufacturing (kg)	kg of release / kg of product produced	Dispersions (ppm wet-weight basis)	Other Fluoropolymers (ppm dry-weight basis)	Telomers (ppm dry-weight basis, unless stated otherwise)
Arkema	2011	PFOA and Higher Homologues	> 1,000 - 4,000	> 0.0001 – 0.0005	0	>5 - 20	Not Applicable
		Precursors	Not Applicable				
Asahi	2011	PFOA, PFOA salts and Higher Homologues	0	Not Applicable	0	0	Not Applicable
		Precursors	Not Applicable				
Ciba/BASF	2011	PFOA and Higher Homologues	0	0	Not Applicable	Not Applicable	0
		Precursors	0	0	Not Applicable	Not Applicable	0
Clariant	2011	PFOA and PFOA salts	Not Applicable				
		Direct Precursors					
Daikin	2011	PFOA	<25	Not reported	<2.5	<2.5	<0.5kg
		Precursor and Higher Homologues	<50	Not reported	Not Applicable	Not Applicable	CBI
DuPont	2011	PFOA and PFOA Salts	261	None reported	6	3	14 kg ^a
		Higher Homologues	Not Reported	None reported			None reported
		Precursors	CBI	None reported	None reported	None reported	<3 kg ^a
Dyneon/3M	2011	PFOA, PFOA salts and Higher Homologues	0	0	0	0	Not Applicable
		Precursors	0				
Solvay Solexis	2011	PFOA, PFOA salts and Higher Homologues	0	0	<10	<5	Not Applicable
		Precursors	Not Applicable				

Table 2. Reported Emissions and Product Content of PFOA, Precursors, and Higher Homologues from Non-U.S. Operations

Company	Second Year Reductions	Chemical Category	Emissions		Product Content		
			Releases to all media from FP and Telomer Manufacturing (kg)	kg of release / kg of product produced	Dispersions (ppm wet-weight basis)	Other Fluoropolymers (ppm dry-weight basis)	Telomers (ppm dry-weight basis, unless stated otherwise)
Arkema	2011	PFOA and Higher Homologues	> 1,000 - 4,000	> 0.001 - 0.005	Not Applicable	> 50 - 100	Not Applicable
		Precursors	Not Applicable				
Asahi	2011	PFOA, PFOA salts and Higher Homologues	237	For FP Production: < 1 kg / 100 kg	Not Applicable	0.08	Negligible compared to precursors
		Precursors	468	For Telomer Production: < 1 kg / 100 kg	Not Applicable	Not Applicable	Average 50% (range: 0-100%)
Ciba/BASF	2011	PFOA and Higher Homologues	36.7	8.9E-05	Not Applicable	Not Applicable	4.1 ^b
		Precursors	0	0	Not Applicable	Not Applicable	544 ^b
Clariant	2011	PFOA and PFOA salts	2	For Telomer Production: <5.0 E-7	None reported	None reported	2.6 kg
		Direct Precursors	<2	For Telomer Production: <5.0 E-7	None reported	None reported	52 kg
Daikin	2011	PFOA	<500	Not reported	<100	<25	<2.5 kg
		Precursor and Higher Homologues	<200	Not reported	Not Applicable	Not Applicable	CBI
DuPont	2011	PFOA and PFOA salts	556	None reported	6	0	See Table 1 ^c
		Higher Homologues	None reported	None reported			None reported
		Precursors	None reported	None reported	None reported	None reported	See Table 1 ^c
Dyneon/3M	2011	PFOA, PFOA salts and Higher Homologues	0	0	0	0	Not Applicable
		Precursors	0				
Solvay Solexis	2011	PFOA, PFOA salts and Higher Homologues	Not Applicable				
		Precursors	Not Applicable				

Reported Percent Reductions in Emissions and Product Content

Table 3. Reported Percent Reductions in Emissions and Product Content of PFOA, Precursors, and Higher Homologues from U.S. Operations (cumulative percent reductions from baseline year through end of 2011)

Company	Second Year Reductions	Chemical Category	% Reduction in Emissions	% Reduction in Product Content		
			% Reductions in total quantity of chemical(s) released from baseline year	Fluoropolymer Dispersions	Other Fluoropolymers	Telomer based products
Arkema	2011	PFOA and Higher Homologues	89%	100%	96%	Not Applicable
		Precursors	Not Applicable			
Asahi	2011	PFOA, PFOA salts and Higher Homologues	100%	100%	100%	Not Applicable
		Precursors	Not Applicable			
Ciba/BASF	2011	PFOA and Higher Homologues	100	100	100	Not Applicable
		Precursors	100	100	100	Not Applicable
Clariant	2011	PFOA and PFOA Salts	Not Applicable			
		Direct Precursors				
Daikin	2011	PFOA	>97.5%	>97.5%	>90%	>95%
		Precursor and Higher Homologues	>97.5%	Not Applicable	Not Applicable	>95%
DuPont	2011	PFOA and PFOA Salts	99%	99.4%	99%	97% ^a
		Higher Homologues	None reported			None reported
		Direct Precursors	CBI	None reported	None reported	97% ^a
Dyneon/3M	2011	PFOA, PFOA salts and Higher Homologues	100%	100%	Not Applicable	Not Applicable
		Precursors	Not Applicable			
Solvay Solexis	2011	PFOA, PFOA salts and Higher Homologues	100%	99%	99%	Not Applicable
		Precursors	Not Applicable			

Table 4. Reported Percent Reductions in Emissions and Product Content of PFOA, Precursors, and Higher Homologues from Non-U.S. Operations (cumulative percent reductions from baseline year through end of 2011)

Company	Second Year Reductions	Chemical Category	% Reduction in Emissions	% Reduction in Product Content		
			% Reductions in total quantity of chemical(s) released from baseline year	Fluoropolymer Dispersions	Other Fluoropolymers	Telomer based products
Arkema	2011	PFOA and Higher Homologues	CBI	Not Applicable	CBI	Not Applicable
		Precursors	Not Applicable			
Asahi	2011	PFOA, PFOA salts and Higher Homologues	98%	100%	PFOA content in this product is negligible as compared to that in dispersions	Negligible as compared to precursors
		Precursors	88%	Not Applicable	Not Applicable	88%
Ciba/BASF	2011	PFOA and Higher Homologues	68%	NA	NA	>99%
		Precursors	NA	NA	NA	(54%) ^d
Clariant	2011	PFOA and PFOA Salts	60%	None Reported		57%
		Direct Precursors	>80%	None Reported		58%
Daikin	2011	PFOA	>97.5%	>97.5%	>97.5%	>90%
		Precursor and Higher Homologues	>95%	Not Applicable	Not Applicable	>95%
DuPont	2011	PFOA and PFOA Salts	97%	99.5%	100%	See Table 3 ^e
		Higher Homologues	None reported			
		Direct Precursors	None reported	None reported	None reported	See Table 3 ^e
Dyneon/3M	2011	PFOA, PFOA salts and Higher Homologues	100%	100%	100%	Not Applicable
		Precursors	Not Applicable			
Solvay Solexis	2011	PFOA, PFOA salts and Higher Homologues	Not Applicable			
		Precursors	Not Applicable			

^a Global number – regional data are CBI

^b Values reported on wet basis

^c Global number reported in table 1

^d In 2011 the ratio of products changed such that those products containing lower concentrations of precursors were produced at a proportionately lower rate. This caused the overall % of precursors in product content to actually increase, even though production of all products in total continued to decrease.

^e Global number reported in table 3