

EPA's Summary Tables for 2008 Company Progress Reports

<http://www.epa.gov/oppt/pfoa/pubs/stewardship/preports2.html>

Table 1. Reported Emissions and Product Content of PFOA, Precursors, and Higher Homologues from 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	2007	PFOA and Higher Homologues	> 1,000 - 10,000	For FP Production: (> 0.1 - 1) kg / 100 kg	> 500 - 1,000	> 70 - 150	Not Applicable
		Precursors	Not Applicable				
Asahi	2007	PFOA, PFOA salts and Higher Homologues	5,027 ^a	For FP Production: < 1 kg / 100 kg	100-1,570	0.12	Not Applicable
		Precursors	Not Applicable				
Ciba	2007	PFOA	0 kg (total for emissions and product content)				
		Higher Homologues	0 kg (total for emissions and product content)				
		Precursors	0 kg (total for emissions and product content)				
Clariant	2007	PFOA and PFOA salts	None reported				
		Direct Precursors					
Daikin	2007	PFOA	<100	None reported	<10	<10	<5 kg
		Precursor and Higher Homologues	<100	None reported	Not Applicable	Not Applicable	CBI
DuPont	2007	PFOA and PFOA Salts	960 ^b	None reported	36	14	21 kg
		Higher Homologues	Not Reported	None reported			None reported
		Precursors	CBI	None reported	None reported	None reported	3 kg
Dyneon/3M	2007	PFOA, PFOA salts and Higher Homologues	0	0	Not Applicable	Not Applicable	Not Applicable
		Precursors	Not Applicable				
Solvay Solexis, Inc.	2007	PFOA, PFOA salts and Higher Homologues	1,000 - 10,000	For FP Production: 0.161 kg / 100 kg	400-450	170-200	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	2007	PFOA and Higher Homologues	> 1,000 - 10,000	For FP Production: (> 0.1 - 1) kg / 100 kg	Not Applicable	> 70 - 150	Not Applicable
		Precursors	Not Applicable				
Asahi	2007	PFOA, PFOA salts and Higher Homologues	3,910	For FP Production: < 1 kg / 100 kg	5-2,900	18	Negligible compared to precursors
		Precursors	2,310	For Telomer Production: < 1 kg / 100 kg	Not Applicable	Not Applicable	Average 50% (range: 0-100%)
Ciba	2007	PFOA	16 kg (total for emissions and product content)				
		Higher Homologues	14 kg (total for emissions and product content)				
		Precursors	1841 kg (total for emissions and product content) ^c				
Clariant	2007	PFOA and PFOA salts	1	For Telomer Production: 2.0 E-5 kg / 100 kg	None reported	None reported	2 kg
		Direct Precursors	<3	For Telomer Production: 6.0 E-5 kg / 100 kg	None reported	None reported	60 kg
Daikin	2007	PFOA	<2,500	None reported	<100	<120	<5 kg
		Precursor and Higher Homologues	<1,000	None reported	Not Applicable	Not Applicable	CBI
DuPont	2007	PFOA and PFOA salts	1,410 ^d	None reported	120	0	21 kg
		Higher homologues	None reported	None reported			None reported
		Precursors	None reported	None reported	None reported	None reported	3 kg
Dyneon/3M	2007	PFOA, PFOA salts and Higher Homologues	1,270	For FP Production: <1 kg / 100 kg	8	Not Applicable	Not Applicable
		Precursors	Not Applicable				
Solvay Solexis, Inc.	2007	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 2007)

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	2007	PFOA and Higher Homologues	29%	0%	36%	Not Applicable
		Precursors	Not Applicable			
Asahi	2007	PFOA, PFOA salts and Higher Homologues	4% ^e	63%	PFOA content in this product is negligible as compared to that in dispersions	Not Applicable
		Precursors	Not Applicable			
Ciba	2007	PFOA	100% (total for emissions and product content)			
		Higher Homologues	100% (total for emissions and product content)			
		Precursors	100% (total for emissions and product content)			
Clariant	2007	PFOA and PFOA Salts	None reported			
		Direct Precursors				
Daikin	2007	PFOA	99%	99%	>30%	>60%
		Precursor and Higher Homologues	>95%	Not Applicable	Not Applicable	>70%
DuPont	2007	PFOA and PFOA Salts	98%	96%	96%	96%
		Higher Homologues	None reported			
		Precursors	CBI	None reported	None reported	96%
Dyneon/3M	2007	PFOA, PFOA salts and Higher Homologues	100%	100%	Not Applicable	Not Applicable
		Precursors	Not Applicable			
Solvay Solexis, Inc.	2007	PFOA, PFOA salts and Higher Homologues	14% ^f	59%	0%	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 2007)

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	2007	PFOA and Higher Homologues	CBI			
		Precursors	Not Applicable			
Asahi	2007	PFOA, PFOA salts and Higher Homologues	60%	43%	PFOA content in this product is negligible as compared to that in dispersions	Negligible as compared to precursors
		Precursors	42%	Not Applicable	Not Applicable	23%
Ciba	2007	PFOA	96.4% (total for emissions and product content)			
		Higher Homologues	96.4% (total for emissions and product content)			
		Precursors	Increase of 24.4% (total for emissions and product content)			
Clariant	2007	PFOA and PFOA Salts	90%	None reported	None reported	35%
		Direct Precursors	40%	None reported	None reported	38%
Daikin	2007	PFOA	>40%	>95%	>20%	>70%
		Precursor and Higher Homologues	>40%	Not Applicable	Not Applicable	>70%
DuPont	2007	PFOA and PFOA Salts	93%	88%	100%	96%
		Higher Homologues	None reported			
		Precursors	None reported	None reported	None reported	96%
Dyneon/3M	2007	PFOA, PFOA salts and Higher Homologues	91%	99%	Not Applicable	Not Applicable
		Precursors	Not Applicable			
Solvay Solexis, Inc.	2007	PFOA, PFOA salts and Higher Homologues	Not Applicable			
		Precursors	Not Applicable			

^a Reflects increased production at company's U.S. facilities during the most recent reporting year, as compared to the previous year.

^b Number represents global emissions of telomer manufacturing.

^c Note that the 2007 precursor value unfortunately had to be recalculated upward due to an analytic error.

^d Number represents global emissions of telomer manufacturing.

^e Reflects increased production at company's U.S. facilities during the most recent reporting year, as compared to the previous year.

^f Reflects increased production at company's U.S. facilities during the most recent reporting year, as compared to the previous year.