

EPA's Summary Tables for 2009 Company Progress Reports

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	2008	PFOA and Higher Homologues	>1,000 – 10,000	>0.001 – 0.01	>100 - 300	>50 - 100	Not Applicable
		Precursors	Not Applicable				
Asahi	2008	PFOA, PFOA salts and Higher Homologues	0	Not Applicable	0	0	Not Applicable
		Precursors	Not Applicable				
Ciba	2008	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	2008	PFOA and PFOA salts	Not Applicable				
		Direct Precursors					
Daikin	2008	PFOA	<100	None reported	<10	<15	<5 kg
		Precursor and Higher Homologues	<50	None reported	Not Applicable	Not Applicable	CBI
DuPont	2008	PFOA and PFOA Salts	686	None reported	9	13	16 kg ^a
		Higher Homologues	None Reported	None reported			None reported
		Precursors	CBI	None reported	None reported	None reported	<3 kg ^b
Dyneon/3M	2008	PFOA, PFOA salts and Higher Homologues	0	0	0	0	No Telomer Production
		Precursors	0				
Solvay Solexis, Inc	2008	PFOA, PFOA salts	Not Applicable	Not Applicable	<25ppm	170-200	Not Applicable
		Higher Homologues	>1,000- 10,000	0.01 -0.001			
		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	2008	PFOA and Higher Homologues	>1,000 – 10,000	For FP Production: (>0.1-1) kg/100kg	Not Applicable	>50 – 100	Not Applicable
		Precursors	Not Applicable				
Asahi	2008	PFOA, PFOA salts and Higher Homologues	3,885	For FP Production: <1%	5-2,900	18	Negligible as compared to precursors
		Precursors	1,921	For Telomer Production: <1%	Not Applicable	Not Applicable	Average 50% (range: 0-100%)
Ciba	2008	PFOA	13.5 kg (total for emissions and product content)				
		Higher Homologues	11.2 kg (total for emissions and product content)				
		Precursors	1172.3 kg (total for emissions and product content)				
Clariant	2008	PFOA and PFOA salts	0.5	For Telomer Production: 0.00000015	None Reported	None Reported	>2 kg
		Direct Precursors	<2	For Telomer Production: 0.00000005	None Reported	None Reported	39 kg
Daikin	2008	PFOA	<1,900	None reported	<100	<70	<5 kg
		Precursor and Higher Homologues	<700	None reported	Not Applicable	Not Applicable	CBI
DuPont	2008	PFOA and PFOA salts	779	None reported	58	0	16 kg ^c
		Higher homologues	None reported	None reported			None reported
		Precursors	None reported	None reported	None reported	None reported	<3 kg ^d
Dyneon/3M	2008	PFOA, PFOA salts and Higher Homologues	1,020	For FP Production: <1kg/100kg	4	3	No Telomer Production
		Precursors	0				
Solvay Solexis, Inc	2008	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 2008)

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	2008	PFOA and Higher Homologues	51%	66%	51%	Not Applicable
		Precursors	Not Applicable			
Asahi	2008	PFOA, PFOA salts and Higher Homologues	100%	100%	100%	Not Applicable
		Precursors	Not Applicable			
Ciba	2008	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	2008	PFOA and PFOA Salts	Not Applicable			
		Direct Precursors				
Daikin	2008	PFOA	99%	99%	>25%	>80%
		Precursor and Higher Homologues	>95%	Not Applicable	Not Applicable	>90%
DuPont	2008	PFOA and PFOA Salts	99%	99%	96%	97%
		Higher Homologues	None reported			
		Precursors	CBI	None reported	None reported	97%
Dyneon/3M	2008	PFOA, PFOA salts and Higher Homologues	100%	100%	Not Applicable	No Telomer Production
		Precursors	No Precursor Production			
Solvay Solexis, Inc	2008	PFOA, PFOA salts Ad Higher Homologues	36%	98%	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 2008)

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	2008	PFOA and Higher Homologues	CBI	Not Applicable	CBI	Not Applicable
		Precursors	Not Applicable			
Asahi	2008	PFOA, PFOA salts and Higher Homologues	61%	54%	PFOA content in this product is negligible as compared to that in dispersions	Negligible as compared to precursors
		Precursors	51%	Not Applicable	Not Applicable	56%
Ciba	2008	PFOA	97.1% (total for emissions and product content)			
		Higher Homologues	97.5% (total for emissions and product content)			
		Precursors	Increase of 67.7 % (total for emissions and product content)			
Clariant	2008	PFOA and PFOA Salts	95%	None Reported	None Reported	60%
		Direct Precursors	>60%	None Reported	None Reported	61%
Daikin	2008	PFOA	>85%	>95%	>60%	>80%
		Precursor and Higher Homologues	>80%	Not Applicable	Not Applicable	>80%
DuPont	2008	PFOA and PFOA Salts	96%	95%	100%	97%
		Higher Homologues	None reported			
		Precursors	None reported	None reported	None reported	97%
Dyneon/3M	2008	PFOA, PFOA salts and Higher Homologues	93%	99%	0%	No Telomer Production
		Precursors	No Precursor Production			
Solvay Solexis, Inc	2008	PFOA, PFOA salts and Higher Homologues	Not Applicable			
		Precursors	Not Applicable			

^a Number represents global emissions of telomer manufacturing.

^b Number represents global emissions of telomer manufacturing.

^c Number represents global emissions of telomer manufacturing.

^d Number represents global emissions of telomer manufacturing.