

EPA's Summary Tables for 2011 Company Progress Reports

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

Company	Fifth 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	2010	PFOA and Higher Homologues	>1,000 – 10,000	>0.0001 – 0.001	0	>5 - 25	Not Applicable
		Precursors	Not Applicable				
Asahi	2010	PFOA, PFOA salts and Higher Homologues	0	Not Applicable	0	0	Not Applicable
		Precursors	Not Applicable				
BASF (Ciba)	2010	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	2010	PFOA and PFOA salts	Not Applicable				
		Direct Precursors					
Daikin	2010	PFOA	<50	Not reported	<5	<5	<1 kg
		Precursor and Higher Homologues	<50	Not reported	Not Applicable	Not Applicable	CBI
DuPont	2010	PFOA and PFOA Salts	319	None reported	8	4	11 kg globally
		Higher Homologues	None Reported	None reported			None reported
		Precursors	CBI	None reported	None reported	None reported	<3 kg globally
Dyneon/3M	2010	PFOA, PFOA salts and Higher Homologues	0	0	0	0	No Telomer Production
		Precursors	0				
Solvay Solexis, Inc	2010	PFOA, PFOA salts and Higher Homologues	>100- 1000	0.000035	<10ppm	<5 ppm	Not Applicable
		Precursors	Not Applicable				

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

Company	Fifth 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	2010	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	2010	PFOA, PFOA salts and Higher Homologues	369	For FP Production: <1kg/100kg	10-100	18	Negligible as compared to precursors
		Precursors	1,122	For Telomer Production: <1kg/100kg	Not Applicable	Not Applicable	Average 50% (range: 0-100%)
BASF (Ciba)	2010	PFOA	9.5 kg (total for emissions and product content)				
		Higher Homologues	8.2 kg (total for emissions and product content)				
		Precursors	832.8 kg (total for emissions and product content)				
Clariant	2010	PFOA and PFOA salts	0.5	< 0.00000015	Not Applicable	Not Applicable	1.75 kg
		Direct Precursors	<1.5	< 0.00000075	Not Applicable	Not Applicable	36 kg
Daikin	2010	PFOA	<1,000	Not reported	<100	<50	<5 kg
		Precursor and Higher Homologues	<300	Not reported	Not Applicable	Not Applicable	CBI
DuPont	2010	PFOA and PFOA salts	755	None reported	8	0	11 kg globally
		Higher homologues	None reported	None reported			None reported
		Precursors	CBI	None reported	None reported	None reported	<3 kg globally
Dyneon/3M	2010	PFOA, PFOA salts and Higher Homologues	0	For FP Production: <1kg/100kg	0	3	No Telomer Production
		Precursors	0				
Solvay Solexis, Inc	2010	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	Fifth 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	2010	PFOA and Higher Homologues	83%	100%	94%	Not Applicable
		Precursors	Not Applicable			
Asahi	2010	PFOA, PFOA salts and Higher Homologues	100%	100%	100%	Not Applicable
		Precursors	Not Applicable			
BASF (Ciba)	2010	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	2010	PFOA and PFOA Salts	Not Applicable			
		Direct Precursors				
Daikin	2010	PFOA	>95%	>95%	>85%	>90%
		Precursor and Higher Homologues	>95%	Not Applicable	Not Applicable	>95%
DuPont	2010	PFOA and PFOA Salts	99%	99%	99%	98% globally
		Higher Homologues	None reported			
		Precursors	CBI	None reported	None reported	97% globally
Dyneon/3M	2010	PFOA, PFOA salts and Higher Homologues	100%	100%	Not Applicable	No Telomer Production
		Precursors	No Precursor Production			
Solvay Solexis, Inc	2010	PFOA, PFOA salts Ad Higher Homologues	97.26%	99%	97%	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	Fifth 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	2010	PFOA and Higher Homologues	CBI	Not Applicable	CBI	Not Applicable
		Precursors	Not Applicable			
Asahi	2010	PFOA, PFOA salts and Higher Homologues	96%	98%	PFOA content in this product is negligible as compared to that in dispersions	Negligible as compared to precursors
		Precursors	72%	Not Applicable	Not Applicable	73%
BASF (Ciba)	2010	PFOA	97.9% (total for emissions and product content)			
		Higher Homologues	97.8% (total for emissions and product content)			
		Precursors	Increase of 1.9 times (total for emissions and product content)			
Clariant	2010	PFOA and PFOA Salts	90%	Not Applicable	Not Applicable	>70%
		Direct Precursors	>75%	Not Applicable	Not Applicable	71%
Daikin	2010	PFOA	>95%	>95%	>95%	>85%
		Precursor and Higher Homologues	>95%	Not Applicable	Not Applicable	>95%
DuPont	2010	PFOA and PFOA Salts	96%	99%	100%	98% globally
		Higher Homologues	None reported			
		Precursors	CBI	None reported	None reported	97% globally
Dyneon/3M	2010	PFOA, PFOA salts and Higher Homologues	100%	100%	100%	No Telomer Production
		Precursors	No Precursor Production			
Solvay Solexis, Inc	2010	PFOA, PFOA salts and Higher Homologues	Not Applicable			
		Precursors	Not Applicable			