

EPA's Summary Tables for 2007 Company Progress Reports

Table 1 - Reported Emissions and Product Content of PFOA, Precursors, and Higher Homologues from U. S. Operations (cumulative reductions from baseline year through end of 2006)

Company	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	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	PFOA and Higher Homologues	4,922	For FP Production: < 1 kg / 100 kg	500 - 1,570	0.12	Not Applicable
	Precursors	Not Applicable				
Ciba	PFOA	0.05 kg (total for emissions and product content)				
	Higher Homologues	0.05 kg (total for emissions and product content)				
	Precursors	0 kg (total for emissions and product content)				
Clariant	Not Applicable					
Daikin ^a	PFOA	CBI	For FP Production: 8.0×10^{-3} kg / 100 kg	280	Plastics: 2 Elastomers: 300	0.28 (wet-weight basis)
			For Telomer Production: 6.4×10^{-7} kg / 100 kg			
	Precursor and Higher Homologues	CBI	For Telomer Production: 0.027 kg / 100 kg	Not Applicable	Not Applicable	2,500 (wet-weight basis)

Company	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)
DuPont	PFOA, PFOA Salts	1,100	Not Reported	547	69	246 kg (global total product content in all product produced)
	Direct Precursors (C8 Telomer A Iodide and the 8-2-8 Telomer B alcohol ester of PFOA)	CBI	Not Reported	Not Applicable	Not Applicable	57 kg ^b (global total product content in all products produced)
3M/Dyneon	PFOA	0	0	0	Not Applicable	Not Applicable
Solvay Solexis	PFOA and PFOA Salts	Not Applicable	Not Applicable	600 - 700	Not Applicable	Not Applicable
	Higher Homologues	> 1,000 - 10,000	For FP Production: 0.161 kg/100 kg	Not Applicable	170 - 200	Not Applicable
	Precursors	Not Applicable		0	Not Applicable	Not Applicable

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

Company	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	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	PFOA and Higher Homologues	6,036	For FP Production: < 1 kg / 100 kg	1,144 (< 30 - 2900)	18	Not Applicable ^c
	Precursors	3,179	For Telomer Production: < 1 kg / 100 kg	Not Applicable	Not Applicable	Average 50% (range: 0-100%)
Ciba	PFOA	30 kg (total for emissions and product content)				
	Higher Homologues	34 kg (total for emissions and product content)				
	Precursors	1013 kg (total for emissions and product content)				
Clariant	PFOA and PFOA Salts	1	For Telomer Production: 3.0×10^{-5} kg / 100 kg	Not Applicable	Not Applicable	2 kg (total product content)
	Direct Precursors	< 5	For Telomer Production: 1.0×10^{-4} kg / 100 kg	Not Applicable	Not Applicable	58 kg (total product content)

Company	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)
Daikin	PFOA	CBI	For FP Production: 0.026 kg / 100 kg	480	120	0.31 (wet-weight basis)
			For Telomer Production: 5.2×10^{-6} kg / 100 kg			
	Precursor and Higher Homologues	CBI	For Telomer Production: 0.021 kg / 100 kg	Not Applicable	Not Applicable	2,300 (wet-weight basis)
DuPont	PFOA, PFOA Salts	2,600	Not Reported	775	0 ppb	246 kg ^d (global total product content in all product produced)
	Direct Precursors (C8 Telomer A Iodide and the 8-2-8 Telomer B alcohol ester of PFOA)	Not Reported	Not Reported	Not Applicable	Not Applicable	57 kg (global total product content in all products produced)
3M / Dyneon	PFOA	3,700	For FP Production: < 1 kg / 100 kg	130	Not Applicable	Not Applicable

Company	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)
Solvay Solexis		Not Applicable				

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 2006)

Company	Chemical Category	% Reduction in Emissions	% Reduction in Product Content ^e		
		% Reductions in total quantity of chemical(s) released from baseline year	Dispersions	Other Fluoropolymers	Telomers
Arkema	PFOA and Higher Homologues	22%	0%	30%	Not Applicable
	Precursors	Not Applicable			
Asahi	PFOA, PFOA Salts, and Higher Homologues	6%	12%	Not Applicable ^f	Not Applicable
	Precursors	Not Applicable			
Ciba	PFOA	>99% (total for emissions and total mass of product present in the entire amount of product)			
	Higher Homologues	>99% (total for emissions and total mass of product present in the entire amount of product)			
	Precursors	>99% (total for emissions and total mass of product present in the entire amount of product)			
Clariant	Not Applicable				
Daikin ^g	PFOA	94% for fluoropolymer production 92% for telomer production	34%	0%	72%

Company	Chemical Category	% Reduction in Emissions	% Reduction in Product Content ^e		
		% Reductions in total quantity of chemical(s) released from baseline year	Dispersions	Other Fluoropolymers	Telomers
	Precursor and Higher Homologues	22% for telomer production	Not Applicable	Not Applicable	78%
DuPont	PFOA, PFOA Salts	98%	44%	80%	50% (total mass of chemical(s) that is present in the total amount of product produced in U.S. and non-U.S. sites)
	Precursors	CBI	Not Applicable	Not Applicable	14% (total mass of chemical(s) that is present in the total amount of product produced in U.S. and non-U.S. sites)
3M/Dyneon	PFOA	100%	100%	Not Reported	Not Applicable
Solvay Solexis	PFOA and PFOA Salts	Not Applicable	59%	Not Applicable	Not Applicable
	Higher Homologues	28%	Not Applicable	0%	Not Applicable
	Precursors	Not Applicable	Not Applicable	Not Applicable	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 2006)

Company	Chemical Category	% Reduction in Emissions	% Reduction in Product Content ^h		
		% Reductions in total quantity of chemical(s) released from baseline year	Dispersions	Other Fluoropolymers	Telomers
Arkema	PFOA and Higher Homologues	CBI			
	Precursors	Not Applicable			
Asahi	PFOA, PFOA Salts, and Higher Homologues	39%	23%	Not Applicable ⁱ	Not Applicable ⁱ
	Precursors	20%	Not Applicable	Not Applicable	18%
Ciba	PFOA	94%			
	Higher Homologues	91%			
	Precursors	An increase of 131%			
Clariant	PFOA and PFOA Salts	90%	Not Applicable	Not Applicable	35% (total mass of chemical(s) that is present in the total amount of product produced)
	Direct Precursors	0-10%	Not Applicable	Not Applicable	40% (total mass of chemical(s) that is present in the total amount of product produced)

Company	Chemical Category	% Reduction in Emissions	% Reduction in Product Content ^h		
		% Reductions in total quantity of chemical(s) released from baseline year	Dispersions	Other Fluoropolymers	Telomers
Daikin ^k	PFOA	90% for fluoropolymer production 39% for telomer production	76%	16%	69%
	Precursor and Higher Homologues	38% for telomer production	Not Applicable	Not Applicable	78%
DuPont	PFOA, PFOA Salts	86%	25%	100%	50% (total mass of chemical(s) that is present in the total amount of product produced in U.S. and non-U.S. sites.)
	Direct Precursors	Not Reported	Not Applicable	Not Applicable	14% (total mass of chemical(s) that is present in the total amount of product produced in U.S. and non-U.S. sites)
3M / Dyneon	PFOA	74%	91% (total mass)	Not Applicable	Not Applicable
Solvay Solexis	Not Applicable				

Notes:

- “Not Applicable”: indicates that the data element did not apply to the specific company's operations in the area covered by the table.
- “Not Reported”: indicates that the company did not provide a figure for the specific data element.
- “CBI”: data is claimed as confidential business information.

^a % reduction in emissions for Daikin is reported for % reduction in ratios of (kg of release / kg of product produced).

^b Year-end run rates

^c The quantity of PFOA, PFOA salts and higher homologues in telomer based products and other fluoropolymers that are produced in non-US operations was reported by Asahi as being negligible as compared to the quantity of precursors in those same products.

^d Year-end run rates

^e All values refer to reductions in the concentration of the chemical(s) in the product except where noted that the reduction refers to the reduction in total mass of chemical(s) that is present in the total amount of product produced.

^f The quantity of PFOA, PFOA salts and higher homologues in telomer based products and other fluoropolymers that are produced in non-US operations was reported by Asahi as being negligible as compared to the quantity of precursors in those same products.

^g % reduction in emissions for Daikin is reported for % reduction in ratios of (kg of release / kg of product produced).

^h All values refer to reductions in the concentration of the chemical(s) in the product except where noted that the reduction refers to the reduction in total mass of chemical(s) that is present in the total amount of product produced.

ⁱ The quantity of PFOA, PFOA salts and higher homologues in telomer based products and other fluoropolymers that are produced in non-US operations was reported by Asahi as being negligible as compared to the quantity of precursors in those same products.

^j The quantity of PFOA, PFOA salts and higher homologues in telomer based products and other fluoropolymers that are produced in non-US operations was reported by Asahi as being negligible as compared to the quantity of precursors in those same products.

^k % reduction in emissions for Daikin is reported for % reduction in ratios of (kg of release / kg of product produced).