

ORIGINAL

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8EHQ-06-16446	89100000185	4/16/10

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DuPont Haskell Global Centers  
for Health and Environmental Sciences  
1090 Elkton Road, P.O. Box 50  
Newark, DE 19714-0050

April 15, 2010

8EHQ-0410-16446T

89100000185

**Via Federal Express**

Document Processing Center (Mail Code 7407M)  
Room 6428  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
1201 Constitution Ave., NW  
Washington, DC 20004

Dear 8(e) Coordinator:

**Re: 8EHQ-06-16446**  
**Perfluorooctanoate Anion (PFOA)**  
**Occupational Serum Sampling**  
**Dordrecht Works, Dordrecht, Netherlands**

Please find attached occupational PFOA serum sampling results for workers at the above referenced DuPont site for samples collected in March 2010. The levels of PFOA reported with this submission are generally corroborative of previously reported levels in an occupational setting. This information is provided to the TSCA 8(e) office in view of the Agency's continued interest in perfluorinated substances and as precautionary measure.

Sincerely,

A. Michael Kaplan, Ph.D.  
Director – Regulatory Affairs



8 E H Q - 0 6 - 1 6 4 4 6

AMK/JLC: clp  
(302) 366-5260

Attachment (9 pages)



8 9 1 0 0 0 0 0 1 8 5

CONTAINS NO CBI

CONTAINS NO CBI

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results

March 2010 Campaign Exposure Group Summaries							
	No. of Samples	Average (ppb)	Median (ppb)	Max (ppb)	Min (ppb)	Std Dev (ppb)	
P - Group	41	945	662	3767	8	831	
M - Group	18	602	555	1385	100	421	
L - Group	15	361	211	2912	11	714	
O - Group	18	249	169	1445	22	327	
P = Production, M = Maintenance, L = Laboratorian, O = Other (administration, technology personnel, or outside exposure groups)							
Sample ID	Current Exposure Group	Results From Samples Collected July 2005	Results From Samples Collected Dec 2007	Results From Samples Collected March 2009	Results From Samples Collected *Oct.2009	Results From Samples Collected **Oct.2009	Results From Samples Collected March.2010
444798	L		556	490			126
444432	L		846				
445208	P	3658	3518	3238			
445537	L		410	306			211
444597	P	902	798				349
444512	P	4111	4301				
444369	L	11387	6546	4824			2912
444932	P		1728	1716			1285
445241	P	2719	3264	2644	2773	2661	1458
444734	P	3322	3216	2590	2972	2762	1856
466737	P		969				
445139	O	4665	3409		3260	2939	
445471	P	2985	2799	2367	2640	2471	
444733	P	1768	1968	2009			999
445320	P	2104	1744				899
450061	M	529	841	1191			787
400001	P	802	1118				
444772	L	601	483	421			351
444261	P	2955	2050				
445134	P		3806	4008			
400002	P		1109				
445142	P	2620	2240	1973			
444492	M	1080	918	945			892
444531	O		3784				
444450	M	1391	814	617			227
445498	O	418	279	202			
400003	L		49				
444322	L	565	445				286
445497	O		226	177			
444729	P	3209	3426				
445087	P	2856	2820	2629			1350
450669	P	1882	1805	1676			1148
445439	O		89				
444351	P		379	303			
444739	P	3415	2645				1473
400004	P		219				
444831	P		4328	3658			3767
444800	L		107	67			
467491	L		26				

Samples Analyzed by Medizinisches Labor Bremen

Bremen, Germany

Limit of Quantitation = 10 ppb

4/14/2010

Page 1 of 4

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctonoate Anion (PFOA) Results

445219	P		1701	1390			400
447864	O		167				
444664	P		2567				
445430	O	75	101	132	140	145	117
466736	P	520	1651	1459			
444507	L		718				68
444653	P		3054	3054	3433	3216	2318
444363	P	4418	2693	1388			
444498	P	3102	2847	2545	2445	2291	1050
444817	M	1209	1510	1324			1143
467792	P		780				442
444378	P	3800	2907				
444413	P	2978	3107	3049			2536
444268	P	5634	4264				2671
444582	P		1926				
445337	M	1296	1312	1086			1303
467492	M		494	560			783
444872	P	1883	1375				1150
400005	P		1168				
467853	O		62				
445310	M		186				
444305	M	1190	946	719			605
445136	O		1029				
445209	O		2167				1445
444621	O		431	258			195
448498	L		260				235
458704	L		99				
445024	P		1253				
445100	M		1252	1108			991
445159	P		2342				376
444759	O		166	136			
445212	O	2057	1364	961			520
445451	O		69	52			
445183	M	2548	2295	1915	2056	2048	1385
447861	O		339	365			
445678	O			172			155
445016	L			189			
444805	P			630	516		435
445589	O			321			350
448498	L			233			235
458704	L			125			
470139	P			5			8
400007	M			260			407
400009	M			66			185
444995	P			1442			1047
444202	M			1528			
468953	M			219			100
444379	P			2656			
469604	P			188			
445524	L			136			
444253	O			5			
400006	M			1766			

Samples Analyzed by Medizinisches Labor Bremen

Bremen, Germany

Limit of Quantitation = 10 ppb

4/14/2010

Page 2 of 4

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results

444261	P		1949		1225
445159	P		1757		376
469374	P		5		
445191	P		2944		2340
444294	L		223		
444811	O		208		255
444444	O		99		
444507	O		130		68
444797	L		195		138
469782	L		32		39
444432	O		650		
470324	L		13		
445175	L		140		
467792	P		977		
444731	P		543		445
445139	P		3133		
444613	M		273		
445635	O		285		
445272	L		80		57
444355	P		790		380
444739	P		2344		
444320	O		401		
445320	P		1628		
469776	P		98		
450676	L		162		127
444966	M		259		103
444248	O		740		
444833	M		624		
444644	M		1178		734
444495	M		1134		
468825	L		47		
444933	P		521		359
445135	P		689		596
444593	P		716		
445178	P		87		
445151	P		1261		489
444605	M		520		357
469724	M		215		156
445639	O		268		
445499	O		241		117
445615	O		168		101
444938	P		107		
444671	P		71		
400008	O		99		
445209	P		1794		
467812	P		657		425
465995	O				27
445637	P				134
447512	P				662
444665	L				386
444827	O				311
444616	O				305

Samples Analyzed by Medizinisches Labor Bremen  
Bremen, Germany  
Limit of Quantitation = 10 ppb

4/14/2010

Page 3 of 4

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctonoate Anion (PFOA) Results

444409	O					183
445130	O					236
445621	O					40
400010	P					910
400011	P					1170
400012	P					277
400013	P					495
446143	M					185
445599	O					39
400014	P					25
400015	P					23
444668	P					1006
444863	P					208
400016	O					22
400017	L					11
444293	L					240
445315	M					504
400018	P					174
Results rounded to the nearest whole number.						
Results are expressed in parts per billion (ppb).						
*Results from undiluted samples						
**Results from diluted samples - In order to verify initial results, the samples were diluted and reanalyzed.						

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results-Production Group

Sample ID	Current Exposure Group	Results From Samples Collected July 2005	Results From Samples Collected Dec 2007	Results From Samples Collected March 2009	Results From Samples Collected *Oct.2009	Results From Samples Collected **Oct.2009	Results From Samples Collected March 2010
445208	P	3658	3518	3238			
444597	P	902	798				349
444512	P	4111	4301				
444932	P		1728	1716			1285
445241	P	2719	3264	2644	2773	2661	1458
444734	P	3322	3216	2590	2972	2762	1856
466737	P		969				
445471	P	2985	2799	2367	2640	2471	
444733	P	1768	1968	2009			999
445320	P	2104	1744				899
400001	P	802	1118				
444261	P	2955	2050				
445134	P		3806	4008			
400002	P		1109				
445142	P	2620	2240	1973			
444729	P	3209	3426				
445087	P	2856	2820	2629			1350
450669	P	1882	1805	1676			1148
444351	P		379	303			
444739	P	3415	2645				1473
400004	P		219				
444831	P		4328	3658			3767
445219	P		1701	1390			400
444664	P		2567				
466736	P	520	1651	1459			
444653	P		3054	3054	3433	3216	2318
444363	P	4418	2693	1388			
444498	P	3102	2847	2545	2445	2291	1050
467792	P		780				442
444378	P	3800	2907				
444413	P	2978	3107	3049			2536
444268	P	5634	4264				2671
444582	P		1926				
444872	P	1883	1375				1150
400005	P		1168				
445024	P		1253				
445159	P		2342				376
444805	P			630	516		435
470139	P			5			8
444995	P			1442			1047
444379	P			2656			
469604	P			188			
444261	P			1949			1225
445159	P			1757			376
469374	P			5			
445191	P			2944			2340

Samples Analyzed by Medizinisches Labor Bremen

Bremen, Germany

Limit of Quantitation = 10 ppb

4/14/2010

Page 1 of 2

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results-Production Group

467792	P			977			
444731	P			543			445
445139	P			3133			
444355	P			790			380
444739	P			2344			
445320	P			1628			
469776	P			98			
444933	P			521			359
445135	P			689			596
444593	P			716			
445178	P			87			
445151	P			1261			489
444938	P			107			
444671	P			71			
445209	P			1794			
467812	P			657			425
445637	P						134
447512	P						662
400010	P						910
400011	P						1170
400012	P						277
400013	P						495
400014	P						25
400015	P						23
444668	P						1006
444863	P						208
400018	P						174
Number of Samples		22	37	43	6	5	41
Average (ppb)		2802	2267	1597	2463	2680	945
Median (ppb)		2967	2240	1628	2707	2661	662
Max (ppb)		5634	4328	4008	3433	3216	3767
Min (ppb)		520	219	5	516	2291	8
Std Dev (ppb)		1218	1104	1121	1012	350	831

Results rounded to the nearest whole number.

Results are expressed in parts per billion (ppb).

\*Results from undiluted samples

\*\*Results from diluted samples - In order to verify initial results, the samples were diluted and reanalyzed.



DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results-Maintenance Group

Sample ID	Current Exposure Group	Results From Samples Collected July 2005	Results From Samples Collected Dec 2007	Results From Samples Collected March 2009	Results From Samples Collected *Oct.2009	Results From Samples Collected **Oct.2009	Results From Samples Collected March 2010
450061	M	529	841	1191			787
444492	M	1080	918	945			892
444450	M	1391	814	617			227
444817	M	1209	1510	1324			1143
445337	M	1296	1312	1086			1303
467492	M		494	560			783
445310	M		186				
444305	M	1190	946	719			605
445100	M		1252	1108			991
445183	M	2548	2295	1915	2056	2048	1385
400007	M			260			407
400009	M			66			185
444202	M			1528			
468953	M			219			100
400006	M			1766			
444613	M			273			
444966	M			259			103
444833	M			624			
444644	M			1178			734
444495	M			1134			
444605	M			520			357
469724	M			215			156
446143	M						185
445315	M						504
Number of Samples		7	10	21	1	1	18
Average (ppb)		1320	1057	834	2056	2048	602
Median (ppb)		1209	932	719	2056	2048	555
Max (ppb)		2548	2295	1915	2056	2048	1385
Min (ppb)		529	186	66	2056	2048	100
Std Dev (ppb)		609	583	541	N/A	N/A	421

Results rounded to the nearest whole number.

Results are expressed in parts per billion (ppb).

\*Results from undiluted samples

\*\*Results from diluted samples - In order to verify initial results, the samples were diluted and reanalyzed.

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results-Laboratorian Group

Sample ID	Current Exposure Group	Results From Samples Collected July 2005	Results From Samples Collected Dec 2007	Results From Samples Collected March 2009	Results From Samples Collected March 2010
444798	L		556	490	126
444432	L		846		
445537	L		410	306	211
444369	L	11387	6546	4824	2912
444772	L	601	483	421	351
400003	L		49		
444322	L	565	445		286
444800	L		107	67	
467491	L		26		
444507	L		718		68
448498	L		260		235
458704	L		99		
445016	L			189	
448498	L			233	235
458704	L			125	
445524	L			136	
444294	L			223	
444797	L			195	138
469782	L			32	39
470324	L			13	
445175	L			140	
445272	L			80	57
450676	L			162	127
468825	L			47	
444665	L				386
400017	L				11
444293	L				240
Number of Samples		3	12	17	15
Average (ppb)		4184	879	452	361
Median (ppb)		601	427	162	211
Max (ppb)		11387	6546	4824	2912
Min (ppb)		565	26	13	11
Std Dev (ppb)		6238	1804	1134	714

Results rounded to the nearest whole number.

Results are expressed in parts per billion (ppb).

\*Results from undiluted samples

\*\*Results from diluted samples - In order to verify initial results, the samples were diluted and reanalyzed.

DuPont Company  
Dordrecht Works, Netherlands  
Serum Perfluorooctanoate Anion (PFOA) Results-Other Group

Sample ID	Current Exposure Group	Results From Samples Collected July 2005	Results From Samples Collected Dec 2007	Results From Samples Collected March 2009	Results From Samples Collected *Oct.2009	Results From Samples Collected **Oct.2009	Results From Samples Collected March 2010
445139	O	4665	3409		3260	2939	
444531	O		3784				
445498	O	418	279	202			
445497	O		226	177			
445439	O		89				
447864	O		167				
445430	O	75	101	132	140	145	117
467853	O		62				
445136	O		1029				
445209	O		2167				1445
444621	O		431	258			195
444759	O		166	136			
445212	O	2057	1364	961			520
445451	O		69	52			
447861	O		339	365			
445678	O			172			155
445589	O			321			350
444253	O			5			
444811	O			208			255
444444	O			99			
444507	O			130			68
444432	O			650			
445635	O			285			
444320	O			401			
444248	O			740			
445639	O			268			
445499	O			241			117
445615	O			168			101
400008	O			99			
465995	O						27
444827	O						311
444616	O						305
444409	O						183
445130	O						236
445621	O						40
445599	O						39
400016	O						22
Number of Samples		4	15	22	2	2	18
Average (ppb)		1804	912	276	1700	1542	249
Median (ppb)		1238	279	205	1700	1542	169
Max (ppb)		4665	3784	961	3260	2939	1445
Min (ppb)		75	62	5	140	145	22
Std Dev (ppb)		2094	1242	233	2206	1976	327

Results rounded to the nearest whole number.

Results are expressed in parts per billion (ppb).

\*Results from undiluted samples

\*\*Results from diluted samples - In order to verify initial results, the samples were diluted and reanalyzed.

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Packages up to 150 lbs.

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Second business day \*\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected

☐ FedEx 3Day Freight  
Third business day \*\* Saturday Delivery NOT available

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☐ No Signature Required  
Package may be left without obtaining a signature for delivery

☐ Direct Signature  
Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery for residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

(For box must be checked)

☐ No

☐ Yes  
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☐ Yes  
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Dry ice 9 UN 1845

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