

# **A preliminary list of published references being considered in the update to the science**

**Prepared following the completion of the environmental and human  
health risk assessments of the 4 notified polymers.**

**February 3, 2006**

**New Substances Division  
Environment Canada**

**New Chemical Substances  
Health Canada**

**000104**

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# Conference Presentations

## SETAC North America 2004 – Portland, OR

### Biological Monitoring

Houde, M.; Bujas, T.; Balmer, B.; Wells, R.; Fair, P.; Solomon, K.; Muir, D.C.G. **Perfluorinated compounds in three free-ranging bottlenose dolphin populations from southeastern U.S. waters.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

Kannan, K.; Tao, L.; Pastva, S.; Jude, D.; Giesy, J. **Perfluorinated compounds in aquatic organisms at various trophic levels in a Great Lakes food chain.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

### Environmental Monitoring

1) Kallenborn, R.; Berger, U.; Jaernberg, U. **Fate and distribution of perfluorinated alkylated substances (PFAS) in the Nordic environment.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

2) Johnson, B.; Olivero, J.; Kannan, K. **Perfluorinated compounds in fish, birds and humans from Colombia.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

### Toxicology

1) Hoke, R.; Bouchelle, L.; Ferrell, B.; Buck, R. **Comparative Acute Toxicity of Three Fluorotelomer Acids to *Pseudokirchneriella subcapitata*, *Daphnia magna*, and *Oncorhynchus mykiss*.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

2) Berti, W.; Wang, N.; Sulecki, L.; Folsom, P.; Buck, R. **Bacterial Respiration Inhibition Studies of Fluorotelomer-Based Products.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

### Atmospheric Chemistry of Precursors

1) Hashikawa, Y.; Kawasaki, M.; Sulbaek Andersen, M.; Nielsen, O.; Hurley, M.; Wallington, T.; Waterland, R. **The Role of Photolysis in the Atmospheric Fate of Perfluorinated Aldehydes: Gas Phase UV and IR Absorption Spectra.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

2) Ellis, D.; Martin, J.; Mabury, S.; Hurley, M.; Sulbaek Andersen, M.; Wallington, T. **The Atmospheric Degradation of Fluorotelomer Alcohols.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

### **Environmental Transport**

1) Taylor, P.; Yamada, T.; Giraud, R.; Kaiser, M.; Buck, R. **The Fate of Fluorotelomer Treated Consumer Articles in a Municipal Waste Incinerator.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract),

This work has since been published, see Taylor *et al.* *Chemosphere* **2005**, 61, 974-984.

### **Biological Transformation**

1) Wang, N.; Szostek, B.; Buck, R.; Folsom, P.; Sulecki, L.; Gannon, J. **Biotransformation of <sup>14</sup>C-labeled fluorotelomer substances by microorganisms from activated sludge or soil.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract)

### **Analytical Methods**

1) Powley, C.; Ryan, T.; George, S. **Matrix-effect free analytical methods for determination of perfluorinated carboxylic acids in environmental and biological samples.** *SETAC North America 25<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

## SETAC North America 2005 – Baltimore, MD

### Analytical Methodology

1) Malotky, D.; Swanson, W.; Flaherty, J. **The use of Isotopically Labeled Perfluorooctanoic Acid (PFOA) as a Quality Assurance Tool in Measuring the Effectiveness of Multi-Matrix Sampling and Analysis for Ammonium Perfluorooctanoic Acid (APFO).** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

2) Flaherty, J.; Connolly, P.; Decker, E.; Kennedy, S.; Ellefson, M.; Reagen, W.; Szostek, B. **Quantitative determination of perfluorooctanoic acid in serum and plasma by liquid chromatography tandem mass spectrometry.** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

### Environmental Monitoring

1) Helm, P.; Furdui, V.; Crozier, P.; Reiner, E. **Occurrence of Perfluorochemicals in the Nearshore waters of the Laurentian Great Lakes.** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

2) Masunaga, S.; Odaka, R. **Environmental behavior and mass balance of perfluorinated surfactants in Tokyo Bay, Japan.** *SETAC North America 26<sup>th</sup> Annual Meeting 2005*, November 13-17. (Abstract).

3) Huset, C.; Barofsky, D.; Field, J. **Discovery of Semi-Volatile Fluoroalkyl Substances in Municipal Wastewater Treatment Plant Sludge.** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

Results were also presented at the Fluoros Symposium, see Huset *et al.* *Fluoros International Symposium 2005*, August 18-20.

4) Lucaciu, C.; Furdui, V.; Crozier, P.; Marvin, C.; Reiner, E.; Wania, F.; Mabury, S. A. **Temporal Study of Perfluorinated Alkyl Substances in Niagara River Suspended Sediments.** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

### Human Exposure & Monitoring

1) Nakazawa, H.; Kawaguchi, M.; Nakata, H.; Okada, F.; Inoue, K.; Ito, R.; Saito, K.; Saijo, Y.; Sata, F.; Kishi, R. **Measurement of perfluorooctane sulfonate and related perfluorinated compounds in human maternal and cord blood samples.** *SETAC North America 26<sup>th</sup> Annual Meeting 2004*, November 13-17. (Abstract).

## SETAC Europe 2005 – Lille, France

### Analytical Methodology

- 1) Jahnke, A.; Temme, C.; Ebinghaus, R.; Ruck, W. **Determination of airborne polyfluorinated organic compounds**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).
- 2) Powley, C.R.; Buck, C.R. **Matrix-effect free analytical methods for the determination of perfluorinated carboxylic acids in biological matrices**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).
- 3) Szostek, B.; Powley, C.R.; Prickett, K.B.; Ryan, T.W.; Buck, R.C. **Methodology for the measurement of fluorotelomer B alcohols and perfluorinated carboxylic acids by LC-MS/MS in environmental samples**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Abstract).

Results are also presented in Szostek *et al.* *J Chrom. B* **2004**, 813, 313-321

### Biological Monitoring

- 1) Houde, M.; Bujas, T.A.D.; Balmer, B.C.; Bossart, G.D.; Fair, P.A.; Wells, R.S.; Solomon, K.R.; Muir, D.C.G. **Tissue distribution of perfluorinated alkyl acids in bottlenose dolphins (*Tursiops truncatus*)**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

Results were also presented at the Fluoros Symposium, see Houde *et al.* *Fluoros International Symposium 2005*, August 18-20.

- 2) Van de Vijver, K.; Hoff, P.; Das, K.; Brasseur, S.; Reijnders, P.; Blust, R.; De Coen, W. **Tissue distribution of perfluorochemicals in seals (*Phoca vitulina*) from the Wadden Sea: first measurements of perfluorobutane sulfonate (PFBS) in wildlife**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

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### Human Exposure & Monitoring

- 1) DeSilva, A.O.; Mabury, S.A. **Constitutional isomer patterns of perfluorinated acids in human blood**. *SETAC Europe 15<sup>th</sup> Annual Meeting 2004*, November 14-18. (Poster).

Results were also presented at the Fluoros Symposium, DeSilva *et al.* *Fluoros International Symposium 2005*, August 18-20.

## Dioxin 2004 - Berlin, Germany

### Environmental Monitoring

- 1) Berger, U.; Jarnberg, U.; Kallenborn R. **Perfluorinated Alkylated Substances (PFAS) in the European Nordic Environment.** *Dioxin 2004*. (Short Paper).
- 2) Caliebe, C.; Gerwinski, W.; Huhnerfuss, H.; Theobald, N. **Occurrence of Perfluorinated Organic Acids in the Water of the North Sea.** *Dioxin 2004*. (Short Paper).

### Biological Monitoring

- 1) Corsolini, S.; Kannan, K. **Perfluorooctanesulfonate and Related Fluorochemicals in Several Organisms Including Humans from Italy.** *Dioxin 2004*. (Short Paper).
- 2) Guruge, K.S.; Taniyasu, S.; Miyazaki, S.; Yamanaka, N.; Yamashita, N. **Age dependent accumulation of perfluorinated chemicals in beef cattles.** *Dioxin 2004*. (Short Paper).
- 3) Sinclair, E.; Taniyasu, S.; Yamashita, N.; Kannan, K. **Perfluorooctanoic Acid and Perfluorooctane Sulfonate in Michigan and New York Waters.** *Dioxin 2004*. (Short Paper).

### Human Monitoring

- 1) Guruge, K.; Taniyasu, S.; Yamashita, N.; Miyazaki, S.; Yamanaka, N.; Wijeratna, S.; Seneviratne, H. **Perfluorinated compounds in human serum and seminal plasma from an urban and rural population in Sri Lanka.** *Dioxin 2004*. (Short Paper).

This work is explained in detail in Guruge *et al.* *J. Environ. Monit.* **2005**.

- 2) Karrman, A.; van Bavel, B.; Jarnberg, U.; Hardell, L.; Lindstrom, G. **Levels of perfluoroalkylated compounds in whole blood from Sweden.** *Dioxin 2004*. (Short Paper).
- 3) Tittlemier, S.; Ryan, J.J.; Van Oostdam, J. **Presence of anionic perfluorinated organic compounds in serum collected from northern Canadian populations.** *Dioxin 2004*. (Short Paper).
- 4) Yang, J.-H.; Kannan, K.; Kim, S.-Y.; Shin, I.-H. **Levels of perfluorooctanesulfonate and related fluorochemicals in human blood from the general population of Korea.** *Dioxin 2004*. (Short Paper).

### Analytical Methodology

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### Environmental Monitoring

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## Dioxin 2005 – Toronto, Canada

### Environmental Transport

- 1) Loewen, M.; Halldorson, T.; Wang, F.; Wania, R.; Tomy, G. **Altitudinal transect of atmospheric fluorinated organic compounds and pesticides in western Canada.** *Dioxin 2005*. (Short Paper).
- 2) Cousins, I.T.; Prevedouros, K.; Buck, R.C.; Korzeniowski, S.H. **Mass balance investigation of Perfluorooctanoic Acid (PFOA) environmental levels, emissions and sinks in the Northern Hemisphere.** *Dioxin 2005*. (Short Paper).
- 3) Dinglasan, J.; Mabury, S.A. **Residual Telomer Alcohols a Probable Source of Perfluorinated Acids in the Environment.** *Dioxin 2005*. (Short Paper).
- 4) Kaiser, M.; Barton, C.A.; Butler, L.E.; Zraecki, C.J.; Botelho, M.A. **Perfluorooctanoate in air near a manufacturing facility fenceline: Comparing modeled and monitored values.** *Dioxin 2005*. (Short Paper).

### Human Exposure & Monitoring

- 1) Tittlemier, S.; Pepper, K.; Tomy, G.; Chan, L. **Examination of dietary exposure to polyfluorinated compounds via consumption of traditional foods.** *Dioxin 2005*. (Short Paper).
- 2) Guruge, K.; Manage, P.M.; Miyazaki, S.; Yamanaka, N.; Taniyasu, S.; Hanari, N.; Yamashita, N. **Species-specific accumulation of perfluorinated compounds in farm animals from Japan.** *Dioxin 2005*. (Short Paper).
- 3) Shoieb, M.; Harner, T.; Wilford, B.; Zhu, J. **Polyfluorinated telomer alcohols (FTOHs) in indoor dust.** *Dioxin 2005*. (Short Paper).  
Similar results as presented at the Fluoros Symposium, see Shoieb *et al.* *Fluoros International Symposium 2005*, August 18-20.
- 4) Tittlemier, S.; Pepper, K.; Menard, C.; Moisey, J. **Dietary Exposure As A Source of Perfluorinated Compounds For Canadians.** *Dioxin 2005*. (Short Paper).
- 5) Gulkowska, A.; Falandysz, J.; Taniyasu, S.; Bochentyn, I.; Okazawa, T.; Schulte-Oehlmann, U.; Yamashita, N. **A possible influence of occupation and diet on level of perfluorinated acids in human.** *Dioxin 2005*. (Short Paper)
- 6) Karrman, A.; Mueller, J.F.; Harden, F.; Toms, L.-M.L.; van Bavel, B.; Lindstrom, G. **Perfluorinated compounds in serum from Australian urban and rural regions.** *Dioxin 2005*. (Short Paper)

### Analytical Methods

- 1) Taniyasu, S.; Kannan, K.; So, M.K.; Gulkowska, A.; Sinclair, E.; Okazawa, T.; Yamashita, N. **A New Solid Phase Extraction Method for Short- and Long-Chain Perfluorinated Acids and Fluorotelomers in Water and Biota.** *Dioxin 2005*. (Short Paper).
- 2) L'empereur, K.; Stadalius, M.; Connolly, P.; Flaherty, J.; Mansoori, B.A.; Zhu, Y.; Isemura, T.; Kaiser, M.A.; Knaup, W.; Noguchi, M. **Method Validation of Two Methods Developed for the Low-Level**

**Determination of Perfluorooctanoic Acid (PFOA) in Paper, Textile and Carpet by LC/MS/MS. *Dioxin 2005*. (Short Paper).**

(Note: A similar method is reported in detail in *Analyst 2005*, 130, 670-678)

- 3) Karrman, A.; van Bavel, B.; van Leeuwen, S.; de Boer, J.; Lindstrom, G. **Perfluorinated compounds in human plasma and blood - 1st worldwide interlaboratory study. *Dioxin 2005*. (Short Paper).**
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- 5) Kennedy, P. **Fast HPLC-TOFMS Analysis of Perfluorinated Organic Pollutants. *Dioxin 2005*. (Short Paper).**
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