BIBLIOGRAPHY OF KEY PFOA AND PFOS STUDIES

As of October 2009
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BIBLIOGRAPHY OF KEY PFOA AND PFOS STUDIES

September 2009

I. HUMAN STUDIES

A. Medical Surveillance

1. 3M Cottage Grove


2. 3M Decatur


3. **Both Decatur and Cottage Grove**


4. **DuPont/Washington Works**


5. **Miteni Workers (Verona, Italy)**


6. **Environmentally Exposed Populations**


B. Mortality Studies

1. 3M Cottage Grove


2. 3M Decatur


3. DuPont/Washington Works


4. Environmentally Exposed Populations

C. Site-specific Biomonitoring


C8 Science Panel Status report: Factors associated with PFOA levels in a community surrounding a chemical plant. October 15, 2008.


http://www.c8sciencepanel.org/pdfs/Status_Report_C8_half-life_year1_March2009.pdf
D. General Population – Biomonitoring

1. Serum

   a) United States


b) Germany


c) Japan


d) China


e) Spain


2. Cord Blood


3. Milk


4. Diet


5. Liver


E. General Population - Mortality


F. General Population – Reproductive


II. TOXICOLOGICAL STUDIES

A. Reviews


B. Chronic and Subchronic Toxicity

1. PFOA


http://www.epa.gov/sab/pdf/3m_ltr_re_draft_pfoa_panel_report.pdf.

2. **PFOS**


C. **Mechanism of Action**

1. **PPARα**


B. Elcombe, 4-Week study to investigate perfluorooctane sulfonate (PFOS)-induced hepatomegaly in male Sprague Dawley rats, CXR Biosciences Ltd., Feb. 8, 2008. AR226-3802a1.

B. Elcombe, 13-Week Study to Investigate the Reversibility of Perfluorooctane Sulfonate (PFOS)-Induced Effects in Male Sprague Dawley Rats, CXR Biosciences Ltd., July 22, 2008. Submitted to AR226 (no number yet assigned).


2. CAR


D. Pharmacokinetic Studies


Hinderliter PM, Han X, Kennedy GL, Butenhoff JL. 2006. Age effect on perfluoroctanoate (PFOA) plasma concentration in post-weaning rats following oral gavage with ammonium perfluorooctanoate (APFO). Toxicology 225:195-203.


Yang CH, Glover KP, Han X. 2009. Organic anion transporting polypeptide (Oatp) 1a1-mediated perfluoroctanoate transport and evidence for a renal reabsorption

E. Developmental Studies

1. PFOA


Hinderliter PM, Han X, Kennedy GL, Butenhoff JL. 2006. Age effect on perfluorooctanoate (PFOA) plasma concentration in post-weaning rats following oral gavage with ammonium perfluorooctanoate (APFO). Toxicology 225:195-203.


2. PFOS


F. Thyroid Hormone Status

1. PFOS

a) Human


b) Animal – Laboratory Studies


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2. PFOA

a) Human


b) Animal – Laboratory Studies


III. RISK ASSESSMENT

A. Both PFOA and PFOS
B. PFOA


C. PFOS


http://www.health.state.mn.us/divs/eh/risk/guidance/gw/pfos.pdf


D. TEQ Questions


IV. ANALYTICAL DOCUMENTS

A. Publications


Ehresman DJ, Froehlich JW, Olsen GW, Chang SC, Butenhoff JL. 2007. Comparison of human whole blood, plasma, and serum matrices for the determination of
perfluorooctane sulfonate (PFOS), perfluorooctanoate (PFOA), and other fluorochemicals. Environ Res 103:176-184.


B. EPA Reference Method

EPA Method 537: Determination of selected perfluorinated alkyl acids in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry (LC/MS/MS), version 1.0, September 2008, National Exposure Research Laboratory Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, Ohio.

C. 3M Environmental Laboratory Methods

ETS-8-154, 3M Environmental Laboratory: Determination of Perfluorinated Acids, Alcohols, Amides and Sulfonates in Water by Solid Phase Extraction and High Performance Liquid Chromatography/Mass Spectrometry.

ETS-8-042, 3M Environmental Laboratory: Solvent Extraction and Isocratic LC/MS/MS Analysis of Soils for C4-C12 Perfluorinated Carboxylic Acids and Perfluorobutane Sulfonate, Perfluorohexane Sulfonate and Perfluorooctane Sulfonate.

V. TREATMENT TECHNOLOGY