3M Research -- Human Studies

Worker Studies

3M has evaluated the health of its fluorochemical production workers for almost 30 years. This includes medical testing and exposure measurements, which have been reported in:


• Olsen, G.W., Burlew, M.M., Burris, J.M., and Mandel, J.H. “A Cross-sectional Analysis of Serum Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) in Relation to Clinical Chemistry, Thyroid Hormone, Hematology and Urinalysis Results from Male and Female Employee Participants of the 2000 Antwerp and Decatur Fluorochemical Medical Surveillance Program,” October 11, 2001, EPA Docket No. AR226-1087;


• Olsen, G.W. and Mandel, J.H. “Descriptive Analysis of Serum Fluorochemical Concentrations From Cottage Grove Employee Participants of the 2002 Medical Surveillance Program,” June 17, 2003, EPA Docket No. AR226-1352;


• Olsen, G.W., Burris, J.M., Burlew, M.M., and Mandel J.H. “Epidemiologic assessment of worker serum perfluorooctanesulfonate (PFOS) and perfluorooctanoate


- Olsen, G.W. and Zobel, L.R. “An Analysis of the 2000 Fluorochemical (Perfluorooctanoate, PFOA) Medical Surveillance Program at 3M Company’s Antwerp (Belgium), Cottage Grove (Minnesota), and Decatur (Alabama) Facilities,” 3M Medical Department Epidemiology, May 16, 2006. EPA Docket AR226-3678; and

- Olsen, G.W. and Zobel, L.R., “Assessment of lipid, hepatic, and thyroid parameters with serum perfluorooctanoate (PFOA) concentrations in fluorochemical production workers,” *International Archives Occupational Environmental Health*, in press, DOI 10.1007/s00420-007-0213-0, available at [http://www.springerlink.com/content/h800067741442887/](http://www.springerlink.com/content/h800067741442887/)

3M’s work also includes epidemiology studies, including those in:


- Alexander, B.H., “Mortality Study of Workers Employed at the 3M Decatur Facility,” Division of Environmental and Occupational Health, School of Public Health, University of Minnesota, April 26, 2001, EPA Docket No. AR226-1030a019;


• Alexander, B.H. and Grice, M. “Self-Reported Medical Conditions in Perfluorooctanesulfonyl Fluoride Manufacturing Workers,” University of Minnesota School of Public Health, February 1, 2006. EPA Docket AR226-3677;


3M has also published its study of the half-life of PFOS, PFOA and PFHS in workers: